



indo electricals

Website : rujutaent.com Email : rujutaent@gmail.com 63426 , 8169580098 25440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105

"ICO" Connectors

heavy duty multipole Industrial Connectors



Website : rujutaent.com Email : rujutaent@gmail.com 63426 , 8169580098 25440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105

Website : rujutaent.com Email : rujutaent@gmail.com 63426 , 8169580098 25440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105

Quality Connector for... A perfect Connection



Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
 Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105



Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
 Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Indo Electricals was established in the year 1975 at Vadodara India for manufacturing of Signaling and different terminals. Due to the change in market demand and change in market scenario since 1993 we started the manufacture of Industrial Connectors. This has now become our core competence.

Indo Electricals is one of the leading manufacturers of Industrial Connector in India. During the years the Company has undergone continuous modernization, for which we now have a versatile & sophisticated workshop that is under continuous upgradation. Connectors are designed using the state of art software and are developed in a well facilitated and sophisticated tool room equipped with the latest CNC machines for manufacturing & equipment for desired Quality Control.

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
 Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

To fulfill the market requirements the company has enhanced its new premises. The Companies objective is to continuously upgrade its manufacturing facility, improve its techniques, Automate the Production line to ensure a Quality product at the right time at the right place at the right cost.

At present throughout the electrical & electronic Industry wherever connection, interconnection system and solenoids are required and specifically where data processing control and measurement applications are involved, our products meet the most exacting requirement and are in daily use throughout the country in all the field of engineering. The Company has close link with leading OEM Companies resulting in innovation due to constant interaction, which has set current trends and have found country wide recognition.

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
 Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

The Company is catering to the highly technologically advanced domestic market of Switchgear Industries more then a decade & strives to meet the technical specification as per Industry requirement. It has also been regularly dealing with sophisticated Machinery Manufacturer of CNC Machines, Micro Process Plastic Injection Molding Machine, Textile, Automobile Assembly line, Robotic Equipment, SPM, Power Station, Electro Medical apparatus etc.



VISION



MISSION

STANDARDS

| | | | | |
|--------------|----------------|----------|--------------------------------------|-------|
| ICO A | Screw Terminal | 16A 500V | 6,8,10,16,24,32,32(2x16),48(2x24)+PE | 08-16 |
|--------------|----------------|----------|--------------------------------------|-------|

| | | | | |
|---------------|---------------------------|----------|---------------------------------|-------|
| ICO AA | Screwless Spring Terminal | 16A 500V | 6,10,16,24,32(2x16),48(2x24)+PE | 08-16 |
|---------------|---------------------------|----------|---------------------------------|-------|

| | | | | |
|---------------|----------------|----------|---------------------------------|-------|
| ICO AB | Crimp Terminal | 16A 500V | 6,10,16,24,32(2x16),48(2x24)+PE | 08-16 |
|---------------|----------------|----------|---------------------------------|-------|

| | | | | |
|----------------|----------------|----------|----------------------------------|-------|
| ICO ABS | Crimp Terminal | 16A 500V | 10,18,32,46,64(32x2),92(46x2)+PE | 18-24 |
|----------------|----------------|----------|----------------------------------|-------|

| | | | | |
|----------------|----------------|----------|----------|-------|
| ICO ABE | Crimp Terminal | 16A 500V | 40,64+PE | 26-28 |
|----------------|----------------|----------|----------|-------|

| | | | | |
|--------------|----------------|----------|--------|-------|
| ICO C | Screw Terminal | 10A 400V | 3,4+PE | 30-31 |
|--------------|----------------|----------|--------|-------|

| | | | | |
|---------------|----------------|----------|---|-------|
| ICO CA | Screw Terminal | 16A 250V | 10,16,24,32(16x2),48(16x3),64(16x4),72(24x3)+PE | 32-38 |
|---------------|----------------|----------|---|-------|

| | | | | |
|--------------|----------------|----------|--|-------|
| ICO D | Crimp Terminal | 10A 250V | 7,8,15,25,40,50(25x2),64,80(40x2),128(64x2)+PE | 40-48 |
|--------------|----------------|----------|--|-------|

| | | | | |
|---------------|----------------|----------|--------------------------------------|-------|
| ICO DD | Crimp Terminal | 10A 250V | 24,42,72,108,144(72x2),216(108x2)+PE | 50-56 |
|---------------|----------------|----------|--------------------------------------|-------|

| | | | | |
|--------------|----------------|----------|--------------|-------|
| ICO B | Screw Terminal | 35A 690V | 6,12(6x2)+PE | 58-60 |
|--------------|----------------|----------|--------------|-------|

| | | | | |
|--------------|----------------|-----------------------------------|-----------------------|-------|
| ICO E | Screw Terminal | 80A/16A 830V/400V 80A/16A 400V | 4/0, 4/2+PE 4/8+PE | 62-65 |
|--------------|----------------|-----------------------------------|-----------------------|-------|

| | | | | |
|---------------|----------------|----------|------|-------|
| ICO AQ | Crimp Terminal | 16A 400V | 5+PE | 66-67 |
|---------------|----------------|----------|------|-------|

HOODS & HOUSINGS

| | | | | |
|--------------------|--|--|--|----|
| ACCESSORIES | | | | 69 |
|--------------------|--|--|--|----|

| | | | | |
|-------------|--|--|--|---------|
| FPIU | | | | 155-157 |
|-------------|--|--|--|---------|

| | | | | |
|---------------------|--|--|--|---------|
| Machine Lamp | | | | 158-160 |
|---------------------|--|--|--|---------|

Dimensioning of clearances and creepage distances

European standard EN 61984 Ed. 1.0 (22001-11) was recently published for safety prescriptions for multipole connectors for industrial uses and for the relevant tests. This standard assimilates, without any modifications, the corresponding international standard IEC 61984 Ed.1.0 (2001-06). It is applicable to connectors with rated voltage values of over 50V, and up to 1000V, and rated currents values of up to 125A per pole, for which no dedicated standard exists, or to which the particular specifications or the manufacturer refer as regards the safety aspects.

For determining the minimum through-air and surface insulation distances, i.e. creepage distances, for connectors, this standard makes use (with some modifications) of the concepts of standard IEC 60664-1 Ed. 1.0 (1992-10)¹.

NOTE - For connectors with rated voltage values of up to 50V - excluded from the field of application of Low Voltage Directive 73/23/EEC - standard EN 61984 may be used as a guide. For surface and through-air insulation distances, refer to standard IEC 60664-1 Ed. (1992-10).

We are illustrating below the method of standard EN 61984 for determining minimum insulation values in connectors.

The following are now obsolete: the insulation group concept, and the distinction of rated voltage values into d.c. and a.c. voltage values 220V and 380V were adapted to standardised values 230V and 400V according to IEC 60038² and some concepts were taken from the regulations for LV electrical systems of the IEC 60364³ series, as follows:

- The over voltage categories (I, II, III, IV), according to the use of the equipment⁴. They are correlated to the transient over-voltages taken as a basis for determining the rated impulse withstand voltage
- The degrees of pollution
- The classification of insulating materials according to their resistance to tracking
- The conditions of the electrical field (homogenous or inhomogenous).

Over voltage categories (or impulse withstand)

The over voltage categories of a circuit or of an electrical system are identified by a conventional number (from I to IV) based on the limit or the control of the assumed transient over voltage values obtained on a circuit or electrical system and depends on the means used to reduce the over voltages.

TABLE 1

The rated impulse withstand voltage for equipment energised directly from the low-voltage mains (IEC 60664-1 Edition 1.0 1992-10)

| Nominal voltage of the supply system based on IEC 60038 (CENELEC HD 472 S1, CEI 8-6) | | Voltage line to neutral derived from nominal voltage a.c. or d.c. | Rated impulse withstand voltage ^a | | | |
|--|--------------|---|--|------|------|-------|
| Three phase ^a | Single phase | | Over Voltage category | | | |
| V | V | ≤ V | I | II | III | IV |
| | | 50 | 330 | 500 | 800 | 1500 |
| | | 100 | 500 | 800 | 1500 | 2500 |
| | 120-240 | 150 | 800 | 1500 | 2500 | 4000 |
| 230/400 | 300 | 1500 | 2500 | 4000 | 6000 | |
| 277/480 | | | | | | |
| 400/690 | | 600 | 2500 | 4000 | 6000 | 8000 |
| 1000 | | 1000 | 4000 | 6000 | 8000 | 12000 |

(a) The "I" symbol indicates a four-wire three phase distribution system (star distribution). The lower value is the voltage between phase and neutral (phase voltage), whereas the higher value is the voltage between the phases (mains voltage).

Where only one value is indicated, it refers to three-wire, three-phase systems (delta distribution) and specifies the line-to-line value.

(b) Equipment with these rated impulse withstand values can be used in installations in accordance with standard IEC 60364-4-443 (Italian standard CEI 64W4 Section 443, German standard DIN VDE 0100-443).

Table 1 supplies the rated impulse withstand voltage for equipment energised directly from the low voltage mains in function of the rated voltage of the power supply system, the relative voltage line-to-neutral and the over voltage category. **Industrial machinery and installations with fixed connection to the low voltage supply system and consequently the relative components including multipole connectors, constitute an example of the equipment that belongs to the over voltage category III.**

Examples of general equipment that comes under over voltage category II are electrical household appliances, portable tools and other household equipment or similar.

For distribution networks with rated voltage of **230/400V** (star distribution with earthed neutral), and over-voltage category III (category III: impulse withstanding), the demanded rated impulse withstanding voltage is **4kV**.

For distribution networks with rated voltage of **400 or 500V** (star distribution without neutral or with insulated neutral, or delta distribution, insulated or corner-earthed), and over-voltage category III (category III: impulse withstanding), the demanded rated impulse withstanding voltage is **6kV**.

(1) Assimilated with modifications as European Harmonisation Document HD 625.1 S1:1996 and published by the CENELEC member countries as a national standard: Italian standard CEI 28-6 (1997-11), German standard DIN VDE 0110-1 (VDE 0110Teil 1):1997-04.

(2) Harmonisation Document CENELEC HD 472 S1, Italian standard CEI 8-6, German standard DIN IEC 38:1987-05.

(3) Italian standard CEI 64-8, German standard DIN VDE 0100.

(4) HD 625.1 S1 modifies the definition to "impulse withstanding categories".

Degrees of pollution

Pollution indicates the presence of any kind of foreign matter, whether solid, liquid or gaseous (ionised gas) that can have a negative influence on the dielectric strength or on the surface resistivity of the insulating material.

The standard establishes four degrees of pollution. The categories are identified by conventional numbers based on the quantity of polluting agents or on the frequency of the phenomenon which determines the reduction of the dielectric strength and/or of the surface resistivity.

Pollution degree 1:

No pollution or only dry, non-conductive pollution.

The pollution has no influence.

Pollution degree 2:

Only non-conductive pollution except that occasionally a temporary conductivity caused by condensation may occur.

Pollution degree 3:

Conductive pollution or dry, non-conductive pollution which becomes conductive due to condensation which may occur.

Pollution degree 4:

The pollution generates persistent conductivity caused by conductive dust or by rain or snow.

Pollution degree 3 is typical of an industrial environment or similar, while pollution degree 2 is typical of a household environment or similar.

Standard EN 61984 permits the sizing of surface insulation distances of connectors installed in enclosures in protection class &IP54 for the degree of pollution immediately below that of the application environment (e.g.: 2 instead of 3).

Extract from standard EN 61984

6.19.2.2 For a connector in protection class IP54 or higher, according to Publication IEC 60529, the insulating parts inside the enclosure may be sized for a lower degree of pollution.

This applies also to coupled connectors, closure of which is ensured by the connector enclosure, and which may be uncoupled for test and maintenance purposes only.

One may therefore use connectors installed in enclosures or containers in protection class & IP 54, at the rated data referring to degree pollution 2 in industrial applications with degree of pollution 3, if, in compliance with the standard, the coupling of the connectors is opened only occasionally for tests or maintenance. In the event of temporary or limited duration in uncoupled state, a closing cover is, however, necessary, guaranteeing at least protection class IP 54. However, this does not apply to connectors which remain uncoupled and exposed to an industrial atmosphere for an indefinite period. It should be noted, however, that pollution could penetrate inside coupled connectors, also when it comes from remote parts of the electrical system (e.g. through conduits providing cable entry to the connectors enclosure).

Moreover, connector enclosures are usually supplied without cable entry devices, with the installer fitting such devices according to need. The degree of protection marked on the enclosures is guaranteed only for connectors coupled through the use of cable entry devices in equal or higher IP protection class and expertly installed.

Examples of application for the selection of degree of pollution 2 for a connector

- connector on an electric motor controller, which is uncoupled only to replace a faulty motor, also in cases where degree of pollution 3 is instead specified for the system;
- connector on a module-constructed machine, which is opened only for transport purposes and which is used only for faster installation and for safer putting into service. One must make sure that the connector has not been polluted during transport. To ensure this has not occurred, protective covers or adequate packing must be used;
- connector inside a panel in protection class &IP54. In this case one may even renounce equipping the connector with an IP54 enclosure.

Insulating material

Insulating material influences the determination of the minimum creepage distance. It is characterised according to the damage it suffers from the concentrated release of energy during scintillations when a surface leakage current is interrupted due to the drying of the contaminated surface.

The CTI (comparative tracking index), (index of resistance to surface currents) is assumed as index of the resistance to creep currents of the insulating materials in the presence of atmospheric contaminating agents.

The CTI constitutes the numeric value of the maximum voltage at which a material can resist against 50 drops of an electrolytic test solution without tracking, i.e. without a progressive formation of conductive paths on the surface of the solid insulating material (and permanent electric arc between the electrodes of the test equipment) due to the combined effect of electrical stress and electrolytic contamination.

The solid insulating materials are classified into four groups:

- Group I 600 < CTI < 600
- Group II 400 < CTI < 600
- Group IIIa 175 < CTI < 400
- Group IIIb 100 < CTI < 175

The values for groups IIIa/IIIb (Table 6, EN 61984) are identical for the purpose of determining the creepage distance values.

The insulating materials used to manufacture the INDO ELECTRICALS multipole connectors belong to groups IIIa / IIIb.

Electric field conditions

The insulation clearance is determined in Table 2 of IEC 60664-1, bearing in mind the following influencing factors:

- Rated impulse withstand voltage
- Electric field conditions
- Altitude: the values specified in Table 2 give sufficient impulse withstand capability for equipment for use at altitudes up to 2.000 m. For equipment for use at higher altitudes, the corrective factors specified in Table A2 of IEC 60664-1
- The micro-environment.

The shape and arrangement of the conductive parts influence the homogeneity of the electric field and consequently the clearance needed to withstand a given voltage. The clearances in Case A (inhomogeneous field) have the required impulse withstand voltage under all conditions: clearances not less than those specified in **Table 2 - Case A** can be used irrespective of the shape and arrangement of the conductive parts and without verification by an impulse withstand test.

Determination of clearances

In accordance with standard IEC 60664-1, the following must be identified to determine it:

- The rated voltage of the power supply (usually 230/400V and therefore a conventional voltage line-to-neutral of 300V), in star distribution networks with earthed neutral, or 400V for star networks without neutral, or with insulated neutral, or in networks with the distribution transformer's secondary winding delta connected, insulated or corner-earthed and, therefore, with conventional phase voltage of 600V);
- The overvoltage category (usually III);
- The rated impulse withstand voltage determined from Table 1 of IEC 60664 (usually 4 kV or 6kV).

(d) The type of electric field to which the parts through which the current flows shall be subjected (worse case = **inhomogeneous field**) and the degree of pollution (usually 3).

Standard **EN 61984** specifies that the **through-air insulation distance** should be sized according to Table 2 of IEC 60664-1, but according to the rated impulse withstanding voltage obtained from **Table 5** of EN 61984. The rated impulse withstanding voltage must be selected according to the rated power supply voltage and to the overvoltage category. The assignment of connectors to a particular overvoltage category (usually III) is effected according to the rules of IEC 60664-1.

Rated voltage

The voltage value assigned by the manufacturer to the connector and to which the operating and performance characteristics refer (IEC 60664-1, definition 1.3.9 modified).

NOTE - A connector may have more than one rated voltage value.

As concerns the choice of the type of electric field, the through-air insulation distances via windows and openings in the enclosures of insulating material, must comply with the values of case A in Table of IEC 60664-1. i.e. for non uniform field conditions.

TABLE 5

Rated impulse withstand voltage (EN 61984 Edition 1.0 - 2001-11)

| Nominal voltage of the supply system (< rated insulation voltage of equipment) | | | | Preferred values for the rated impulse withstand voltage in kV (1.2/50 us) | | | | |
|--|--|--|-----------------------------|--|--------------------------|--|---------------------------------------|-------------|
| | | | | Over voltage category | | | | |
| | | | | I | II | III | IV | |
| Voltage line-to-earth derived from the nominal voltage of the supply system to the a.c. voltage (r.m.s. value) or d.c. voltage | a.c. voltage (r.m.s. value) | a.c. voltage (r.m.s. value) | a.c. voltage (r.m.s. value) | a.c. voltage (r.m.s. value) | Special protected levels | Level for electrical equipment (household and similar) | Level for distribution supply systems | Input level |
| | | | d.c. voltage | d.c. voltage | | | | |
| V | V | V | V | V | kV | kV | kV | kV |
| 100 | 66/115 | 66 | 60 | - | 0.5 | 0.8 | 1.5 | 2.5 |
| 150 | 120/208; 127/220; | 115;120; 127 | 110; 120; | 220-110; 240-120; | 0.8 | 1.5 | 2.5 | 4 |
| 300 | 220/380; 230/400; 240/415; 260/440; 277/480; | 220; 230; 240; 260; 277; | 220 | 440-220 | 1.5 | 2.5 | 4 | 6 |
| 600 | 347/600; 380/660 400/690 415/720 480/830 | 347; 380; 400; 145; 440; 480; 500; 480; 600; | 480 | 960-480 | 2.5 | 4 | 6 | 8 |
| 1000 | | 660; 690; 720; 830; 1000; | 1000 | - | 4 | 6 | 8 | 12 |

* Value for voltage , 50V mentioned in IEC 60664-1, Encl. B

With the three values (b) (c) and (d) the minium clearance is determined in Table 2 of IEC 60664-1

TABLE 8

Minimum clearance for insulation co-ordination (IEC 60664-1 Edition 1.0 - 1992-10)

| Required impulse withstand voltage | Minimum clearances in air in mm. up to 2.000 m. above sea level | | | | | | | |
|------------------------------------|--|---------------------|-------------------|-------------------|--------------------------------|---------------------|-------------------|-------------------|
| | Case A - inhomogenous field 1) | | | | Case B - inhomogenous field 2) | | | |
| | degree of pollution | | | | degree of pollution | | | |
| kV | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 0.33 ³⁾ | 0.01 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ | 0.01 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 0.40 | 0.02 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ | 0.02 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 0.50 ³⁾ | 0.04 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ | 0.04 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 0.60 | 0.06 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ | 0.06 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 0.80 ³⁾ | 0.10 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ | 0.10 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 1.0 | 0.15 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ | 0.15 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 1.2 | 0.25 | 0.25 | 0.8 ⁵⁾ | 1.6 ⁵⁾ | 0.2 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 1.5 ³⁾ | 0.05 | 0.2 ⁴⁾⁵⁾ | 0.8 ⁵⁾ | 1.6 ⁵⁾ | 0.3 | 0.3 | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 2.0 | 1.0 | 0.2 ⁴⁾⁵⁾ | 1.0 | 1.6 ⁵⁾ | 0.45 | 0.45 | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 2.5 ³⁾ | 1.5 | 0.2 ⁴⁾⁵⁾ | 1.5 | 1.6 ⁵⁾ | 0.6 | 0.6 | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 3.0 | 2 | 2 | 2 | 2 | 0.8 | 0.8 | 0.8 ⁵⁾ | 1.6 ⁵⁾ |
| 4.0 ³⁾ | 3 | 3 | 3 | 3 | 1.2 | 1.2 | 1.2 | 1.6 ⁵⁾ |
| 5.0 | 4 | 4 | 4 | 4 | 1.5 | 1.5 | 1.5 | 1.6 ⁵⁾ |
| 6.0 ³⁾ | 5.5 | 5.5 | 5.5 | 5.5 | 2 | 2 | 2 | 2 |
| 8.0 ³⁾ | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 3 |
| 10.0 | 11 | 11 | 11 | 11 | 3.5 | 3.5 | 3.5 | 3.5 |
| 12.0 ³⁾ | 14 | 14 | 14 | 14 | 4.5 | 4.5 | 4.5 | 4.5 |

- 1) Between pointed and flat electrode.
- 2) - When the clearance is less than the value indicated for Case A an impulse withstand voltage certificate is required
- 3) Preferential values specified in Table 1
- 4) For printed wiring material, the values of degree of pollution 1 apply except that the value shall not be less than 0.04 mm as specified in Table 4
- 5) These minimum clearances given for pollution degrees 2, 3 and 4 are based on experience rather than on fundamental data.

*) Table 2 of IEC 60664-1 is modified in Variant 2. In particular, the columns referring to degree of pollution 4 have been eliminated. The definition of this degree is varied in 2.5.1 to: "permanent conductivity occurs, due to conductive dust, rain or other humid conditions". The through-air insulation distances for degree of pollution 4 area as specified for degree of pollution 3, with the exception that the minimum through air distance is 1.6 mm.

In 2.5.2 it is specified that "in conductive pollution conditions, the dimensions for the surface insulation distances cannot be specified where permanent conductive pollution is present, e.g.: due to coal or metal dust. On the contrary, the insulation surface should be designed in order to prevent a seamless path of conductive pollution, e.g.: by means of ribs and cavities".

The values written in bold are the most common multipole connectors for industrial purposes.

If the component respects the minimum through-air insulation distance prescribed for live parts of opposing polarities, it is exempted from the impulse voltage withstanding test. This test is run at sea level using increased voltage values in order to take into account rarefied air at high altitude (the prescribed values refer to 2000 m asl. However, if this distance is not respected, passing the test gives one the right to declare the relevant rated impulse withstanding voltage.

Declaration of the rated impulse withstanding voltage is optional for standard EN 61984: if the manufacturer declares the rated impulse withstanding voltage, the impulse withstanding voltage test is, in any event, necessary as dielectric verification. Alternatively, if the manufacturer does not declare this rated value, the voltage withstanding dielectric test at mains frequencies of 50/60 Hz for 60 s (test 4a of IEC 60512) is necessary but at reduced values compared to the peak values of the impulsive test voltages of wave shape standardised at 1.2/50 us.

To this end, standard EN 61984 provides the following cross-reference table:

TABLE 8

Test voltages (EN61984 Edition 1.0 - 2001-11)

| Rated impulse withstand voltage kV | Test voltages | | withstand voltage (r.m.s. value) kV (50/60 Hz) |
|------------------------------------|---|---------------------------------|--|
| | impulse withstand* voltage kV (1.2/50 us) | withstand voltage kV (50/60 Hz) | |
| | at 2000 above sea level at sea level | | |
| 0.33 | 0.33 | 0.35 | 0.23 |
| 0.5 | 0.5 | 0.55 | 0.37 |
| 0.8 | 0.8 | 0.91 | 0.50 |
| 1.5 | 1.5 | 1.75 | 0.84 |
| 2.5 | 2.5 | 2.95 | 1.39 |
| 4 | 4 | 4.8 | 1.21 |
| 6 | 6 | 7.3 | 3.31 |
| 8 | 8 | 9.8 | 4.26 |
| 12 | 12 | 14.8 | 6.6 |

* If the test laboratory is situated between sea level and an altitude of 2000 m asl, interpolation of test impulse voltage is allowed.

Rated impulse withstand voltage

The rated impulse withstanding voltage assigned by the manufacturer to the connector, which refers to the withstanding capacity of its insulation with respect to transient overvoltages [IEC 60664-1, definition 1.3.9.2 modified].

Impulse withstand voltage

The highest peak value of a voltage impulse of prescribed shape and polarity, which does not cause insulation faults under specified conditions.

Dimensioning of creepage distances

The minimum surface insulation distance (creepage distance), i.e. "the shortest distance along the surface of the insulation material between two conducting parts" [IE 60664-1 development 1.3.3] for connectors is prescribed by standard EN 61984 in Table 6. It is determined according to rated voltage, degree of pollution and insulating material group. The rated voltage providing access to Table 6 (rationalised voltage of the feed system) is determined in Table 3a of IEC 60664-1 for single phase two or three wire a.c. or d.c. systems or Table 3b for three-phase three or four wire a.c. systems. Usually for three-phase systems with 230V/400V rated voltage, the conventional line-to-line insulation voltage is 400V and the line-to-earth for TT or TN systems is 250V. For three-phase systems with 400V or 500V rated voltage the conventional line-to-line insulation voltage is respectively 400V and 500V. The degree of pollution must be specified according to standard IEC 60664-1. It strongly influences the rated insulation voltage of a connector. Therefore, the rated insulation voltage of a connector should be reconsidered time by time for each degree of pollution.

TABLE 3a
Single phase two or three wire a.c. or d.c. systems (IEC 60664-1 Edition 1.0 - 1992-10)

| Nominal voltage of the supply system*) | Voltage rationalised for Table 4 for insulation | |
|--|---|-----------------------------|
| | line-to-line ¹⁾ | line-to-earth ¹⁾ |
| | A | B |
| 12.5 | 12.5 | - |
| 24 | 25 | - |
| 25 | 25 | - |
| 30 | 32 | - |
| 42 | 50 | - |
| 48 | 50 | - |
| 50** | 50 | - |
| 60 | 63 | - |
| 30-60 | 63 | 32 |
| 100** | 100 | - |
| 110 | 125 | - |
| 120 | 125 | - |
| 150** | 160 | - |
| 220 | 250 | - |
| 110-220 | 250 | 125 |
| 120-240 | 250 | 125 |
| 300** | 320 | - |
| 220-440 | 500 | 250 |
| 600** | 630 | - |
| 480-960 | 1000 | 500 |
| 1000** | 1000 | - |

TABLE 3b
Three-phase three or four wire a.c. systems (IEC 60664-1 Edition 1.0 - 1992-10)

| Nominal voltage of the supply system*) | Voltage rationalised for Table 4 for insulation | | | |
|--|---|-----|-----------------------------|---|
| | line-to-line ¹⁾ | | line-to-earth ¹⁾ | |
| | A | C | D | D |
| 63 | 63 | 32 | 63 | |
| 110 | 125 | 80 | 125 | |
| 120 | 125 | 80 | 125 | |
| 127 | 125 | 80 | 125 | |
| 150** | 160 | - | 160 | |
| 208 | 200 | 125 | 200 | |
| 220 | 250 | 160 | 250 | |
| 230 | 250 | 160 | 250 | |
| 240 | 250 | 160 | 250 | |
| 300** | 320 | - | 320 | |
| 380 | 400 | 250 | 400 | |
| 400 | 400 | 250 | 400 | |
| 415 | 400 | 250 | 400 | |
| 440 | 500 | 250 | 500 | |
| 480 | 500 | 320 | 500 | |
| 500 | 500 | 320 | 500 | |
| 575 | 630 | 400 | 630 | |
| 600** | 630 | - | 630 | |
| 660 | 630 | 400 | 630 | |
| 690 | 630 | 400 | 630 | |
| 720 | 800 | 500 | 800 | |
| 830 | 800 | 500 | 800 | |
| 960 | 1000 | 630 | 1000 | |
| 1000** | 1000 | - | 1000 | |

Legends:

- A = All systems.
- B = Single phase three-wire systems with mid-point earthed.
- C = Three-phase four-wire systems [secondary winding of a star distribution transformer neutral-earthed(2)].
- D = Three-phase three-wire systems [secondary winding of a delta distribution transformer], unearthed" or corner-earthed.

(1) The phase-earth insulation for unearthed or impedance-earthed lines is equal to that between phases, because the operating voltage of any phase can, in practice, approach full voltage between the phases [line voltage]. This is because the actual voltage to earth is determined by the insulation resistance and by the capacitive reactance of each phase to earth. Consequently, a low (but acceptable) insulation resistance of a phase can, in effect, earth it and increase voltage to earth of the other two phases at full voltage between the phases [line voltage].

(2) For equipment for use on both three-phase three-wire and three-phase four wire supplies, earthed or unearthed, use only the values for three-wire systems.

(*) Assuming a rated voltage of the equipment.
(**) These values correspond to the values given in Table 1.

With this voltage value, the pollution degree and the materials group the minimum creepage distance can be determined using Table 6.

Table 6
Minimum creepage distance (EN 61984 Edition 1.0 - 2001-11)

| Rated voltage r.m.s. value a.c. or d.c. V | Minimum creepage distances (mm) | | | | | | | | | |
|---|---------------------------------|------|------------------|----------------|-----|------------------|----------------|------|------------------|------|
| | Pollution degree | | | | | | | | | |
| | 1 | 2 | | | 3 | | | 4 | | |
| see note ^b | Material group | | | material group | | | Material group | | | |
| | I ^a | II | III ^c | I | II | III ^c | I | II | III ^c | |
| 63 | 0.2 | 0.63 | 0.9 | 1.25 | 1.6 | 1.8 | 2 | 2.1 | 2.6 | 3.4 |
| 80 | 0.22 | 0.67 | 0.95 | 1.3 | 1.7 | 1.9 | 2.1 | 2.2 | 2.8 | 3.6 |
| 100 | 0.25 | 0.71 | 1 | 1.4 | 1.8 | 2 | 2.2 | 2.4 | 3 | 3.8 |
| 125 | 0.28 | 0.75 | 1.05 | 1.5 | 1.9 | 2.1 | 2.4 | 2.5 | 3.2 | 4 |
| 160 | 0.32 | 0.8 | 1.1 | 1.6 | 2 | 2.2 | 2.5 | 3.2 | 4 | 5 |
| 200 | 0.42 | 1 | 1.4 | 1.6 | 2 | 2.5 | 2.8 | 3.2 | 4 | 5 |
| 250 | 0.56 | 1.25 | 1.8 | 2.5 | 3 | 3.5 | 4 | 5 | 6.3 | 7.5 |
| 320 | 0.75 | 1.6 | 2.2 | 3.2 | 4 | 4.5 | 5 | 6 | 7.3 | 8.6 |
| 400 | 1 | 2 | 2.8 | 4 | 4.5 | 5.3 | 6 | 7 | 8.5 | 10 |
| 500 | 1.3 | 2.5 | 3.6 | 5 | 6 | 7 | 8 | 9 | 11 | 13 |
| 630 | 1.8 | 3.2 | 4.5 | 6.3 | 8 | 9 | 10 | 11.1 | 13.6 | 16.1 |
| 800 | 2.4 | 4 | 5.6 | 8 | 9 | 10.5 | 12 | 13.8 | 17 | 20.2 |
| 1000 | 3.2 | 5 | 7.1 | 10 | 12 | 14 | 16 | 17 | 21 | 25 |

NOTE 1: The values for voltages ≤ 50V are supplied in IEC 60664-1, Table 4.

NOTE 2: The values in bold are reduced compared to those of Table 4 IEC 60664-1, in compliance with 2.4 of IEC 60664-1.

a Materials group I or materials group II, III, where the possibility of tracking is reduced in conformance with the conditions of paragraph 3.2 of IEC 60664-1.

b Materials group I, II, IIIa, IIIb

c Materials group IIIb is not recommended for application with pollution degree 3 above 630V and with pollution degree 4.

Dimensioning of the clearances and creepage distances according to the standard DIN VDE 0627:1986-06 (DIN VDE 0110:1972-11 + Guide DIN VDE 0110b:1979-02)

Standard DIN VDE 0627:1986-06, containing safety prescriptions for connectors, was the only reference standard for the safety aspects of multipole connectors for industrial uses, before the publication of European standard EN 61984 (2001-11). Some series of connectors occasionally refer to this standard as regards the sizing of insulation distances.

It refers to the 3rd edition of standard VDE 0110:1972-11. On the basis of the relevant field of application, electrical equipment is classified into insulation groups **A0, A, B, C** and **D**, relative to the reduction in the insulation performances due to environmental influences such as dust, dirt, humidity, condensation, ageing and atmospheric particles in aggressive environments.

The classification into insulation groups considers both the effects of the damages derived from faulty insulation of an insulating material in use and the estimated over voltages. In general, the classification of the equipment into various insulation groups is made in the relative VDE product standards by the Technical Committees.

Insulation group A0

Insulation group A0 refers to low voltage equipment located in an air-conditioned or clean and dry environment, or one which is electrically protected by adequate measures or where overheating would not be excessive in case of short circuit. The maximum overvoltage in operation (including peaks) must not exceed the value:

$$U_{\text{max}} = 2 \cdot (100V + 1.25 U_B) [V]$$

(U_B = alternate voltage for use of the appliance)

Insulation group A

Insulation group A refers to equipment located in an air-conditioned or clean and dry locations, or one which is electrically protected by adequate measures.

Insulation group B

Insulation group B refers to equipment located in household environments or similar, shops, warehouses, precision mechanics workshops, laboratories, test chambers, medical rooms and similar locations.

Insulation group C

Insulation group C refers to equipment which is mainly used on industrial, commercial and agricultural, works housed in unheated warehouses, in workshops, in boiler rooms, on machine tools, etc.

Insulation group D

Insulation group D refers to equipment located on board road vehicles or rotating materials, equipment exposed to humidity from condensation or melted snow and to conductive dust caused by braking devices which can-not be satisfactorily protected by encapsulation.

Values **a** and **b** of the creepage distances obtained from Table 4 of standard DIN VDE 0110b: 1979-02 depend upon the profile of the surface path and the resistance of the insulating materials to tracking. The insulating materials are classified into groups according to Table 3 of this standard bearing in mind this particular aspect.

TABLE 3
DIN VDE 0110b: 1979-02

| 1 | 2 | 4 | 4 |
|-------|--|----------------------------------|-------------------|
| Group | Resistance to tracking (minimum value) | Creepage distances ^{a)} | |
| | | Without rib | With rib (par.8a) |
| I | KB 100 | b | (a+b)/2 |
| II | KB 380 | (a+b)/2 | a |
| III | KB > 600 | a | a |

(1) Resistance to tracking in accordance with standard DIN VDE 0303 Teil 1/06.84 (IEC60112).
(2) For insulating groups A0 and A the insulating distance is usually "a".

The minimum values of the clearance and creepage distances are obtained from Table 4 or the standard DIN VDE 0110b: 1979-02.

TABLE 4
DIN VDE 0110b: 1979-02 (extract)

Minimum values of the clearances and creepage distances in mm.

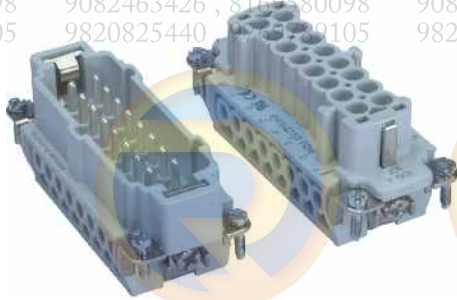
| Reference voltages (according to Table 1) up to : | | | | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| a.c. voltage (r.m.s. value) | V | 12 | 30 | 60 | 125 | 250 | 380 | 500 | 660 | 750 | 1000 |
| d.c. voltage | V | 15 | 36 | 75 | 150 | 300 | 450 | 600 | 800 | 900 | 1200 |
| insulation group A0 | L | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.8 | 1.1 | 1.5 | 1.8 | 2.5 |
| | a | 0.1 | 0.2 | 0.2 | 0.4 | 0.7 | 1.1 | 1.5 | 2 | 2.2 | 3 |
| | b | 0.3 | 0.4 | 0.5 | 0.7 | 1.3 | 2 | 2.7 | 3.6 | 4 | 5.5 |
| insulation group B | L | 0.4 | 0.5 | 0.7 | 1 | 1.6 | 2.4 | 3 | 4 | 4.5 | 6 |
| | a | 0.6 | 0.8 | 1 | 1.3 | 2 | 3 | 4 | 5.5 | 6 | 6 |
| | b | 0.8 | 1 | 1.3 | 2 | 3 | 4 | 5.5 | 7 | 8 | 11 |
| insulation group C | L | 0.8 | 1 | 1.2 | 1.6 | 2.5 | 3.5 | 4.5 | 6 | 6.5 | 9 |
| | a | 1.2 | 1.5 | 1.7 | 2.2 | 3 | 4.5 | 6 | 8 | 9 | 12 |
| | b | 1.7 | 2 | 2.3 | 3 | 4 | 6 | 8 | 11 | 12 | 16 |
| insulation group D | L | 1.6 | 1.8 | 2 | 2.5 | 3.5 | 5 | 6.5 | 8 | 9 | 12 |
| | a | 2.3 | 2.6 | 3 | 3.5 | 5 | 7 | 9 | 12 | 13 | 17 |
| | b | 3.2 | 3.5 | 4 | 5 | 7.5 | 10 | 13 | 17 | 19 | 25 |

L = clearance

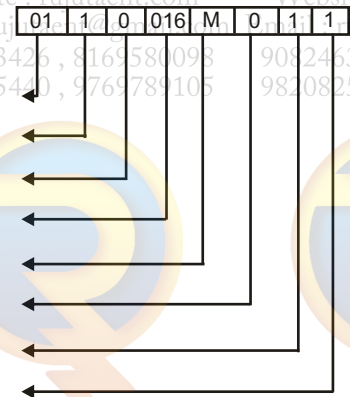
a/b = creepage distances according to Table 3

Interpolate values for intermediate voltages.

CODING FOR INSERT



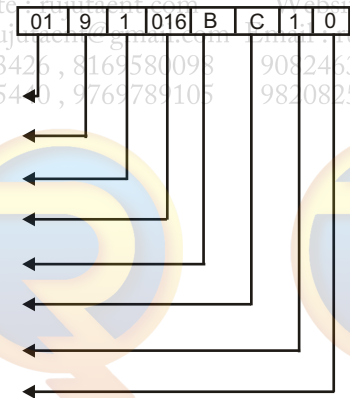
- Type of Connector
- Range of Connector
- Colour of connector
- No. of Contacts
- Type of Insert
- Sequence of Contact Numbers
- Type of Termination
- Surface Coating



CODING FOR HOOD



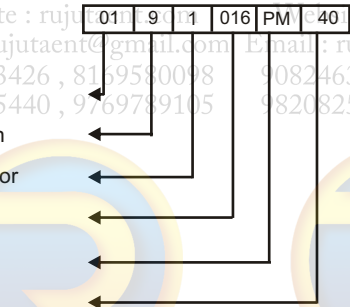
- Type of Connector
- Environmental Condition
- Hood with respect to connector
- No. of Contacts
- Type of Construction of Casting
- Type of Cable Entry
- Type of Clamp
- Type of Threads



CODING FOR BULKHEAD MOUNTING HOUSING



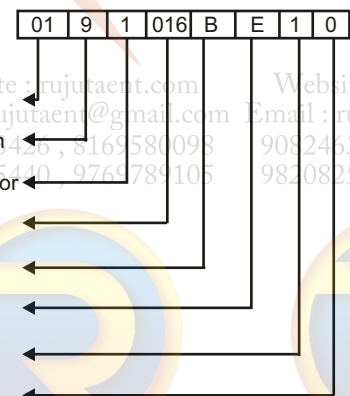
- Type of Connector
- Type of Environmental Condition
- Housing with respect to connector
- No. of Contacts
- Type of Mounting
- Type of Clamp



CODING FOR SURFACE MOUNTING HOUSING



- Type of Connector
- Type of Environmental Condition
- Housing with respect to connector
- No. of Contacts
- Type of Construction
- Type of Entry
- Type of Clamp
- Type of Thread





Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

TECHNICAL CHARACTERISTICS

ICO A, ICO AA, ICO AB

Specifications

DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 6,8,10,16,24,32,32(16x2),48(24x2)+PE

Electrical data acc. to 16A 500V 6kV 3

ICO A 3 & 4

-Rated current 16A

-Rated voltage 500V

-Rated impulse voltage 6kV

-Pollution degree 3

-Pollution degree 2 also 16A 400/690V 6kV 2

Rated voltage acc. to UL/CSA 600V

Insulation resistance $\geq 10^{10}\Omega$

Material polycarbonate

Limiting temperatures $-40^{\circ}\text{C} \dots +125^{\circ}\text{C}$

Flammability acc. to UL 94 V0

Mechanical working life (mating cycles) ≥ 500

Contacts

Material copper alloy

Surface terminal gold plated

silver plated

Screw terminal

-Contact resistance $\leq 1\text{m}\Omega$

-Wire gauge 1.0-2.5mm²

-AWG 18-14

-Tightening/Test torque 0.5Nm

-Stripping length 7.0mm

Crimp terminal

-Contact resistance $\leq 1\text{m}\Omega$

-Wire gauge 0.5-4.0mm²

-AWG 20-12

-Stripping length 7.0mm

Spring terminal

-Contact resistance $\leq 3\text{m}\Omega$

-Wire gauge 0.14-2.5mm²

-AWG 26-14

-Stripping length 7-9mm

Hoods / Housing

Material Die-Cast aluminum

Surface Powder Coated RAL 7037

Locking Element Zinc plated / Thermoplastic

Temperature Range $-40^{\circ}\text{C} \dots +125^{\circ}\text{C}$

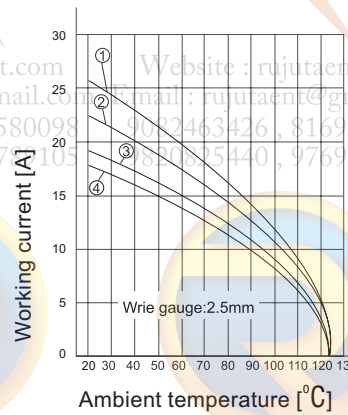
Degree of Protection

For Coupled Connector IP65

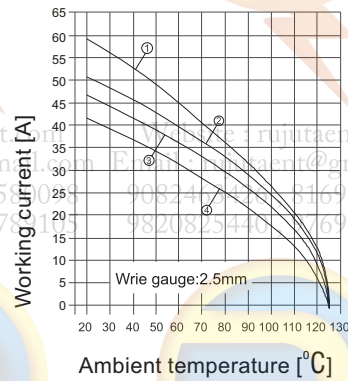
Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

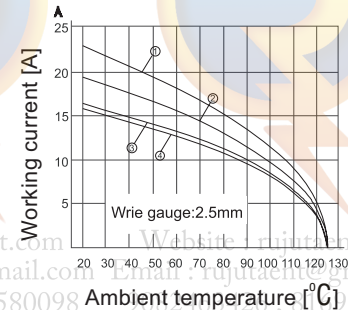
Control and test procedures according to DIN EN 60512-5



1. ICO A-006
2. ICO A-008
3. ICO A-010
4. ICO A-016
5. ICO A-024
6. ICO A-032



1. ICO AA-006
2. ICO AA-010
3. ICO AA-016
4. ICO AA-024



1. ICO AB-006
2. ICO AB-010
3. ICO AB-016
4. ICO AB-024

ICO A, ICO AA, ICO AB

For Hoods/Housing please refer page no.91-96

Number of Contact

6+

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|----------------------------------|--------|--|------------------|---------------|---------------|
| <p>Screw Terminal</p> | ICO A | | | 0110 006 M011 | 0110 006 F011 |
| <p>Screwless Spring Terminal</p> | ICO AA | | | 0110 006 M031 | 0110 006 F031 |
| <p>Crimp Terminal</p> | ICO AB | <p>Contact arrangement view from termination side</p> <p>Panel cut out for Insert without Housing/Hood</p> | | 0110 006 M021 | 0110 006 F021 |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|------------------|---------------------------|------------------|---------------|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|--|-----------|---------------|---------------|
| <p>Silver plated</p> | | | 0.14-0.37 | 0103 000 5M04 | 0103 000 5F04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 5M03 | 0103 000 5F03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.75 | 0103 000 5M05 | 0103 000 5F05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.00 | 0103 000 5M02 | 0103 000 5F02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.50 | 0103 000 5M01 | 0103 000 5F01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2.50 | 0103 000 5M06 | 0103 000 5F06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3.00 | 0103 000 5M07 | 0103 000 5F07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 4.00 | 0103 000 5M08 | 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Gold plated</p> | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | 0.14-0.37 | 0103 000 5M14 | 0103 000 5F14 |
| | | Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.50 | 0103 000 5M13 | 0103 000 5F13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | 0103 000 5M15 | 0103 000 5F15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0103 000 5M12 | 0103 000 5F12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.50 | 0103 000 5M11 | 0103 000 5F11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.50 | 0103 000 5M16 | 0103 000 5F16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 0103 000 5M17 | 0103 000 5F17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 0103 000 5M18 | 0103 000 5F18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


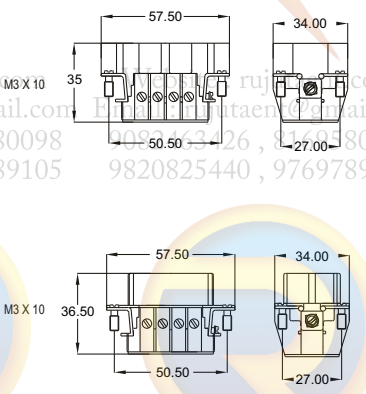
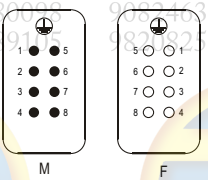
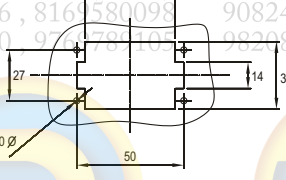
For crimping tool & contact removal tool Page No. 140

Number of Contact

8+ 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|--------------|--|------------------|----------------------|----------------------|
| <p>Screw Terminal</p>  | <p>ICO A</p> |  <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | <p>0110 008 M011</p> | <p>0110 008 F011</p> |

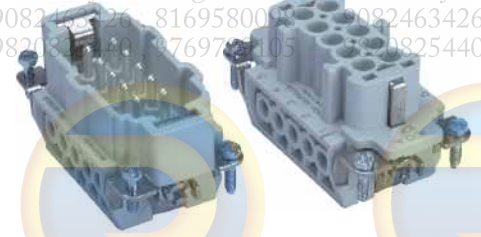
ICO A, ICO AA, ICO AB


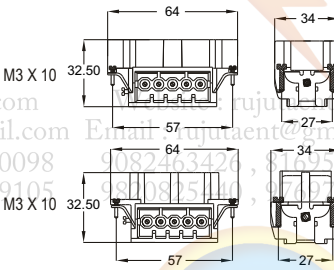
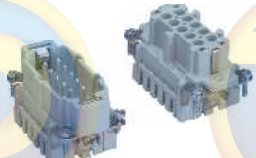
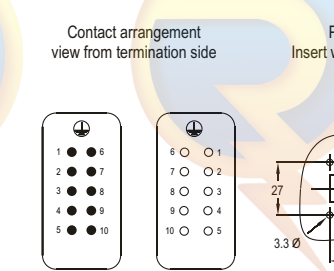

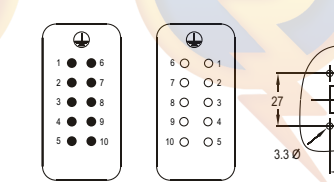
For Hoods/Housing please refer page no. 101-110

Number of Contact


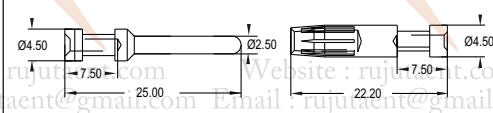

10+ 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|---------------|---|------------------|---------------|---------------|
| <p>Screw Terminal</p>  | ICO A |  | | 0110 010 M011 | 0110 010 F011 |
| <p>Screwless Spring Terminal</p>  | ICO AA | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p> | | 0110 010 M031 | 0110 010 F031 |
| <p>Crimp Terminal</p>  | ICO AB |  | | 0110 010 M021 | 0110 010 F021 |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------|---|--|--|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|--|---|--|--|
| <p>Silver plated</p>  |  | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M04 0103 000 5M03 0103 000 5M05 0103 000 5M02 0103 000 5M01 0103 000 5M06 0103 000 5M07 0103 000 5M08 | 0103 000 5F04 0103 000 5F03 0103 000 5F05 0103 000 5F02 0103 000 5F01 0103 000 5F06 0103 000 5F07 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Gold plated</p>  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M14 0103 000 5M13 0103 000 5M15 0103 000 5M12 0103 000 5M11 0103 000 5M16 0103 000 5M17 0103 000 5M18 | 0103 000 5F14 0103 000 5F13 0103 000 5F15 0103 000 5F12 0103 000 5F11 0103 000 5F16 0103 000 5F17 0103 000 5F18 |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140

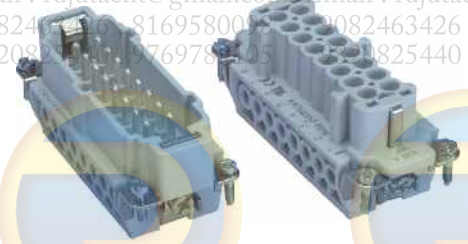
ICO A, ICO AA, ICO AB


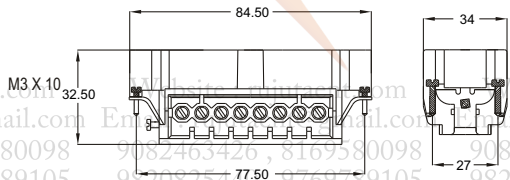
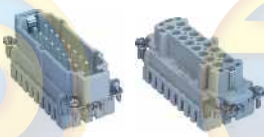
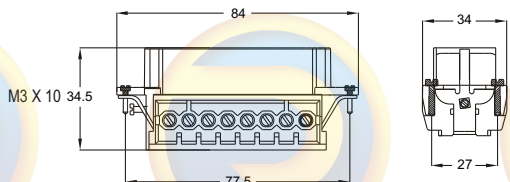

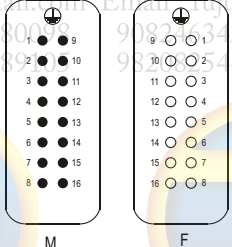
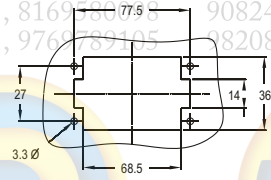
For Hoods/Housing please refer page no. 111-120

Number of Contact


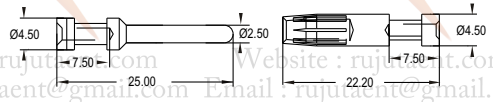

16+ 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|---------------|---|------------------|---------------|---------------|
| <p>Screw Terminal</p>  | ICO A |  | | 0110 016 M011 | 0110 016 F011 |
| <p>Screwless Spring Terminal</p>  | ICO AA |  | | 0110 016 M031 | 0110 016 F031 |
| <p>Crimp Terminal</p>  | ICO AB | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | 0110 016 M021 | 0110 016 F021 |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------|---|--|--|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|--|---|--|--|
| <p>Silver plated</p>  |  | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M04 0103 000 5M03 0103 000 5M05 0103 000 5M02 0103 000 5M01 0103 000 5M06 0103 000 5M07 0103 000 5M08 | 0103 000 5F04 0103 000 5F03 0103 000 5F05 0103 000 5F02 0103 000 5F01 0103 000 5F06 0103 000 5F07 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Gold plated</p>  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M14 0103 000 5M13 0103 000 5M15 0103 000 5M12 0103 000 5M11 0103 000 5M16 0103 000 5M17 0103 000 5M18 | 0103 000 5F14 0103 000 5F13 0103 000 5F15 0103 000 5F12 0103 000 5F11 0103 000 5F16 0103 000 5F17 0103 000 5F18 |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140

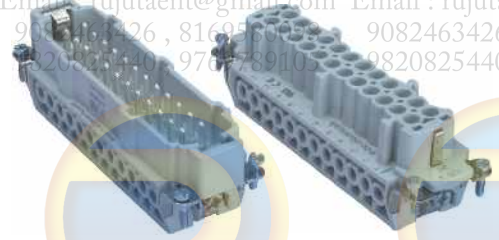
ICO A, ICO AA, ICO AB


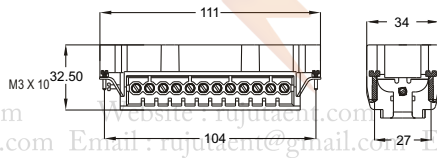

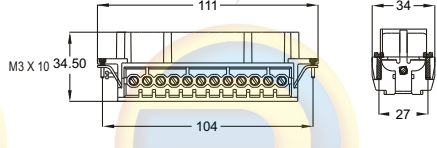

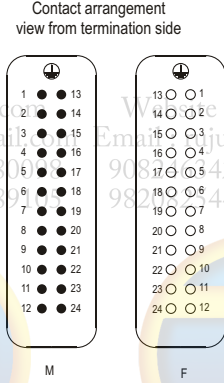
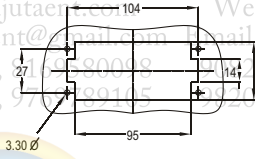
For Hoods/Housing please refer page no. 121-130

Number of Contact


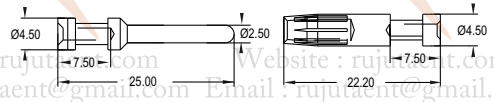

24 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|--------|---|------------------|---------------|---------------|
| <p>Screw Terminal</p>  | ICO A |  | | 0110 024 M011 | 0110 024 F011 |
| <p>Screwless Spring Terminal</p>  | ICO AA |  | | 0110 024 M031 | 0110 024 F031 |
| <p>Crimp Terminal</p>  | ICO AB | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | 0110 024 M021 | 0110 024 F021 |

Crimp Contacts

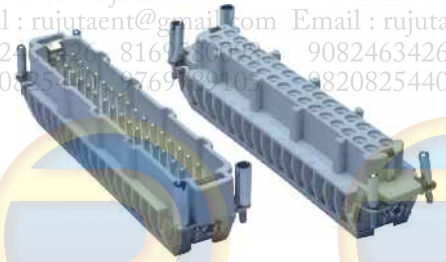
| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------|---|--|--|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|--|---|--|--|
| <p>Silver plated</p>  |  | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M04 0103 000 5M03 0103 000 5M05 0103 000 5M02 0103 000 5M01 0103 000 5M06 0103 000 5M07 0103 000 5M08 | 0103 000 5F04 0103 000 5F03 0103 000 5F05 0103 000 5F02 0103 000 5F01 0103 000 5F06 0103 000 5F07 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Gold plated</p>  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M14 0103 000 5M13 0103 000 5M15 0103 000 5M12 0103 000 5M11 0103 000 5M16 0103 000 5M17 0103 000 5M18 | 0103 000 5F14 0103 000 5F13 0103 000 5F15 0103 000 5F12 0103 000 5F11 0103 000 5F16 0103 000 5F17 0103 000 5F18 |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


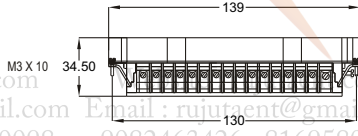
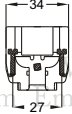

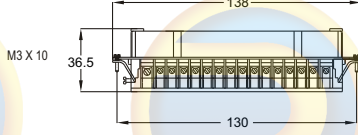
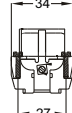
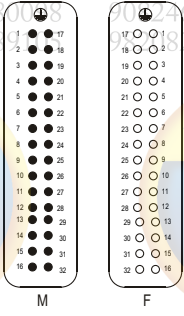
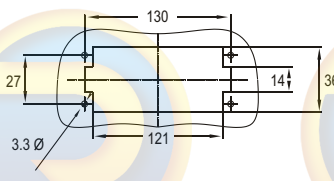
For crimping tool & contact removal tool Page No. 140

Number of Contact

32 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|--------|---|---|---------------|---------------|
| <p>Screw Terminal</p>  | ICO A |  |  | 0110 032 M011 | 0110 032 F011 |
| <p>Screw Terminal</p>  | |  |  | 0150 032 M011 | 0150 032 F011 |
| <p>Contact arrangement view from termination side</p>  | | <p>Panel cut out for Insert without Housing/Hood</p>  | | | |

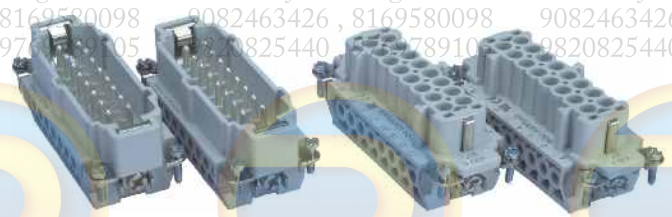
ICO A, ICO AA, ICO AB

For Hoods/Housing please refer page no. 134-136

Number of Contact

32 (16x2) 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---------------------------|--------|---------|------------------|---------------|---------------|
| Screw Terminal | ICO A | | | 0110 016 M011 | 0110 016 F011 |
| | | | | 0110 016 M111 | 0110 016 F111 |
| Screwless Spring Terminal | ICO AA | | | 0110 016 M031 | 0110 016 F031 |
| | | | | 0110 016 M131 | 0110 016 F131 |
| Crimp Terminal | ICO AB | | | 0110 016 M021 | 0110 016 F021 |
| | | | | 0110 016 M121 | 0110 016 F121 |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|------------------|---------------------------|------------------|---------------|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|--|-----------|---------------|---------------|
| Silver plated | | | 0.14-0.37 | 0103 000 5M04 | 0103 000 5F04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 5M03 | 0103 000 5F03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.75 | 0103 000 5M05 | 0103 000 5F05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.00 | 0103 000 5M02 | 0103 000 5F02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.50 | 0103 000 5M01 | 0103 000 5F01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2.50 | 0103 000 5M06 | 0103 000 5F06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3.00 | 0103 000 5M07 | 0103 000 5F07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 4.00 | 0103 000 5M08 | 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 20 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | 0.14-0.37 | 0103 000 5M14 | 0103 000 5F14 |
| | | Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 0.75 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.50 | 0103 000 5M13 | 0103 000 5F13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | 0103 000 5M15 | 0103 000 5F15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0103 000 5M12 | 0103 000 5F12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.50 | 0103 000 5M11 | 0103 000 5F11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.50 | 0103 000 5M16 | 0103 000 5F16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 0103 000 5M17 | 0103 000 5F17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 0103 000 5M18 | 0103 000 5F18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140

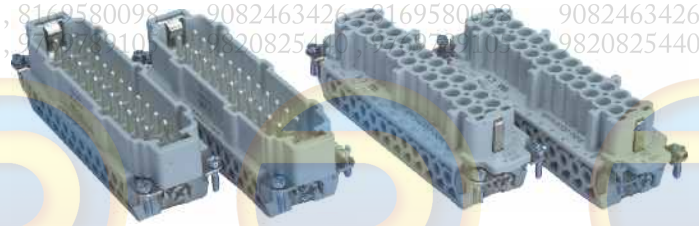
ICO A, ICO AA, ICO AB


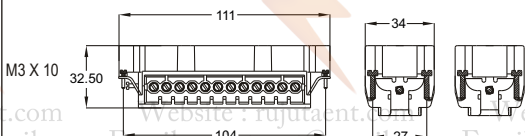

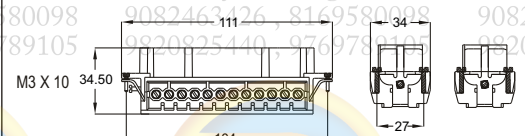

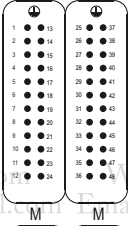
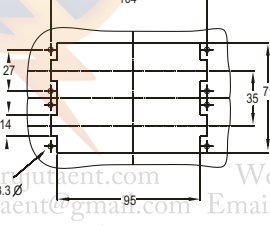
For Hoods/Housing please refer page no. 137-138

Number of Contact


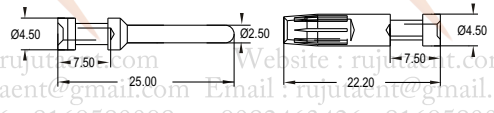

48 (24X2) + 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|---------------|---|------------------|--------------------------------|--------------------------------|
| <p>Screw Terminal</p>  | ICO A |  | | 0110 024 M011 0110 024 M111 | 0110 024 F011 0110 024 F111 |
| <p>Screwless Spring Terminal</p>  | ICO AA |  | | 0110 024 M031 0110 024 M131 | 0110 024 F031 0110 024 F131 |
| <p>Crimp Terminal</p>  | ICO AB | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | 0110 024 M021 0110 024 M121 | 0110 024 F021 0110 024 F121 |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------|---|--|--|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|--|---|--|--|
| <p>Silver plated</p>  |  | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M04 0103 000 5M03 0103 000 5M05 0103 000 5M02 0103 000 5M01 0103 000 5M06 0103 000 5M07 0103 000 5M08 | 0103 000 5F04 0103 000 5F03 0103 000 5F05 0103 000 5F02 0103 000 5F01 0103 000 5F06 0103 000 5F07 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Gold plated</p>  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 16 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M14 0103 000 5M13 0103 000 5M15 0103 000 5M12 0103 000 5M11 0103 000 5M16 0103 000 5M17 0103 000 5M18 | 0103 000 5F14 0103 000 5F13 0103 000 5F15 0103 000 5F12 0103 000 5F11 0103 000 5F16 0103 000 5F17 0103 000 5F18 |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 1.00 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140



TECHNICAL CHARACTERISTICS

Specifications DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 10,18,32,46,64(32x2),
92(46x2) + PE

Electrical data acc. to EN 61 984 16A 500V 6kV 3

-Rated current 16A

-Rated voltage 500V

-Rated impulse voltage 6kV

-Pollution degree 3

-Pollution degree 2 also 16A 830v 8kV 2

Rated voltage acc. to UL/CSA 600V

Insulation resistance $\geq 10^{10}\Omega$

Material polycarbonate

Limiting temperatures $-40^{\circ}\text{C} \dots +125^{\circ}\text{C}$

Flammability acc. to UL 94 V0

Mechanical working life (mating cycles) ≥ 500

Contacts

Material copper alloy

Surface terminal gold plated

silver plated

Contact resistance $\leq 1\text{m}\Omega$

Crimp terminal

-Wire gauge 0.5-4.0mm²

-AWG 20-12

-Stripping length 7.5mm

Hoods / Housing

Material Die-Cast aluminum

Surface Powder Coated RAL 7037

Locking Element Zinc plated / Thermoplastic

Temperature Range $-40^{\circ}\text{C} \dots +125^{\circ}\text{C}$

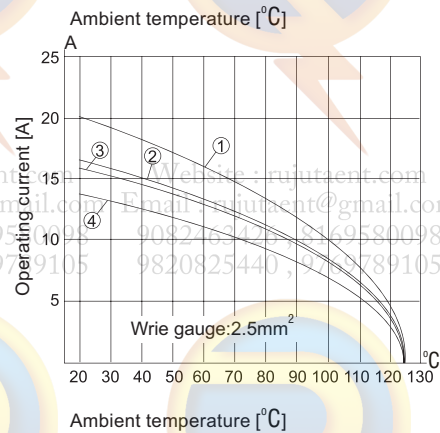
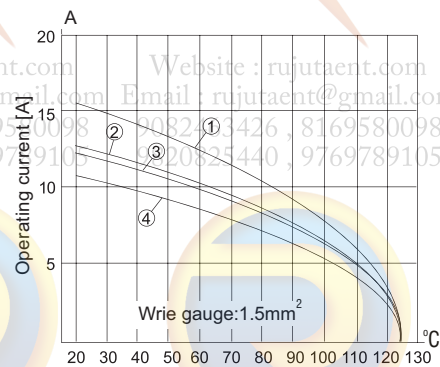
Degree of Protection

For Coupled Connector IP65

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



ICO ABS


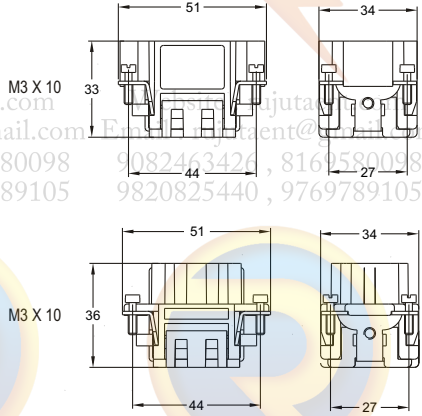

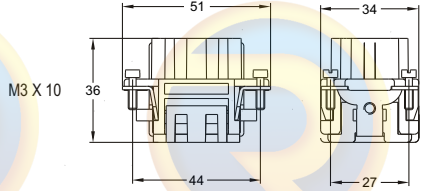
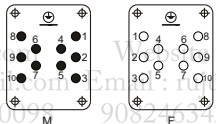
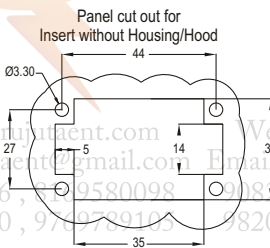
For Hoods/Housing please refer page no. 91-96

Number of Contact

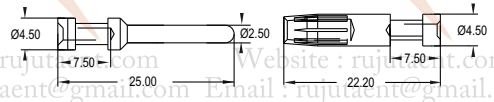

10+ 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------|---|--|---------------|---------------|
| Crimp Terminal | | | | | |
|  | | | | | |
| | ICO ABS |  | | 0510 010 M021 | |
|  | | | | | |
| | |  | | | 0510 010 F021 |
| | |  |  | | |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|---|--|--|-----------|-------------------------------------|--------|-----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|-------------|-----------------------------|--------|-----------|-----------------------------|--------|---|--|--|
| Silver plated |  | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M04 0103 000 5M03 0103 000 5M05 0103 000 5M02 0103 000 5M01 0103 000 5M06 0103 000 5M07 0103 000 5M08 | 0103 000 5F04 0103 000 5F03 0103 000 5F05 0103 000 5F02 0103 000 5F01 0103 000 5F06 0103 000 5F07 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm² AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm² AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm² AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm² AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm² AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm² AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm² AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm² AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² AWG 12 | 7.5 mm | No Groove | 4.00 mm ² AWG 12 | 7.5 mm | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M14 0103 000 5M13 0103 000 5M15 0103 000 5M12 0103 000 5M11 0103 000 5M16 0103 000 5M17 0103 000 5M18 | 0103 000 5F14 0103 000 5F13 0103 000 5F15 0103 000 5F12 0103 000 5F11 0103 000 5F16 0103 000 5F17 0103 000 5F18 |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.14-0.37 mm ² AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.50 mm ² AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 0.75 mm ² AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 1.00 mm ² AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Groove | 1.50 mm ² AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Groove | 2.50 mm ² AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

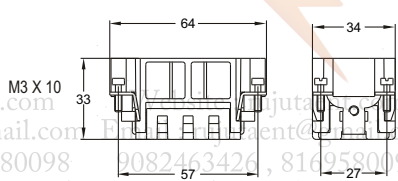
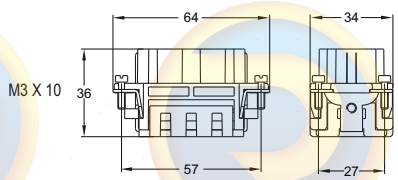
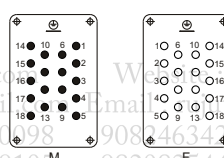
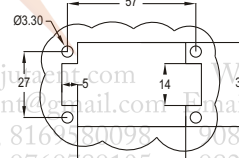
For crimping tool & contact removal tool Page No. 140

Number of Contact

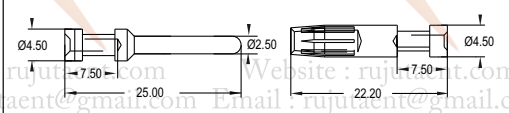
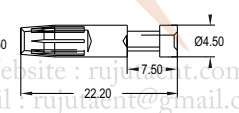
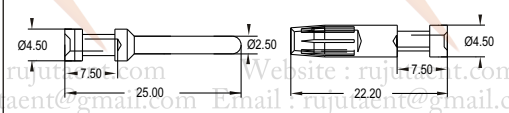
18+ 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|----------------|---------|---|---|---------------|---------------|
| Crimp Terminal | ICO ABS |  |  | 0510 018 M021 | |
| | | | | | 0510 018 F021 |
| | | <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for Insert without Housing/Hood</p>  | | |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|---|---------------------------|------------------|---------------|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|---|-----------|---------------|---------------|
| Silver plated |  |  | 0.14-0.37 | 0103 000 5M04 | 0103 000 5F04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 5M03 | 0103 000 5F03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.75 | 0103 000 5M05 | 0103 000 5F05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.00 | 0103 000 5M02 | 0103 000 5F02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.50 | 0103 000 5M01 | 0103 000 5F01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2.50 | 0103 000 5M06 | 0103 000 5F06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3.00 | 0103 000 5M07 | 0103 000 5F07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 4.00 | 0103 000 5M08 | 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm |  | 0.14-0.37 | 0103 000 5M14 | 0103 000 5F14 |
| | | Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.50 | 0103 000 5M13 | 0103 000 5F13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | 0103 000 5M15 | 0103 000 5F15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0103 000 5M12 | 0103 000 5F12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.50 | 0103 000 5M11 | 0103 000 5F11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.50 | 0103 000 5M16 | 0103 000 5F16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 0103 000 5M17 | 0103 000 5F17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 0103 000 5M18 | 0103 000 5F18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


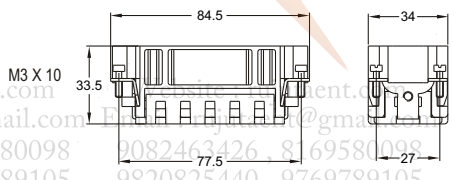
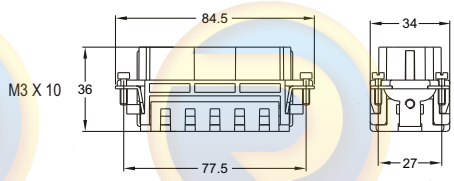

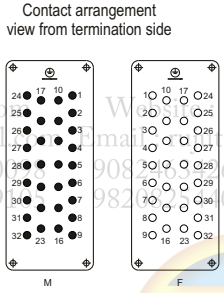
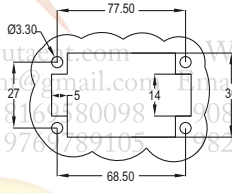
For crimping tool & contact removal tool Page No. 140

Number of Contact

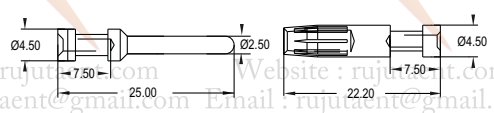

32 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------|---|---|---------------|---------------|
| Crimp Terminal | | | | | |
|  | ICO ABS |  |  | 0510.032.M021 | |
|  | | | | | 0510.032.F021 |
| | | <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for Insert without Housing/Hood</p>  | | |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|---|--|--|-----------|-------------------------------------|--------|-----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|-------------|-----------------------------|--------|-----------|-----------------------------|--------|---|--|--|
| Silver plated |  | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M04 0103 000 5M03 0103 000 5M05 0103 000 5M02 0103 000 5M01 0103 000 5M06 0103 000 5M07 0103 000 5M08 | 0103 000 5F04 0103 000 5F03 0103 000 5F05 0103 000 5F02 0103 000 5F01 0103 000 5F06 0103 000 5F07 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm² AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm² AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm² AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm² AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm² AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm² AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm² AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm² AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² AWG 20 | 7.5 mm | 1 Groove | 1.00 mm ² AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² AWG 12 | 7.5 mm | No Groove | 4.00 mm ² AWG 12 | 7.5 mm | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M14 0103 000 5M13 0103 000 5M15 0103 000 5M12 0103 000 5M11 0103 000 5M16 0103 000 5M17 0103 000 5M18 | 0103 000 5F14 0103 000 5F13 0103 000 5F15 0103 000 5F12 0103 000 5F11 0103 000 5F16 0103 000 5F17 0103 000 5F18 |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.14-0.37 mm ² AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.50 mm ² AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 0.75 mm ² AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 1.00 mm ² AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Groove | 1.50 mm ² AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Groove | 2.50 mm ² AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


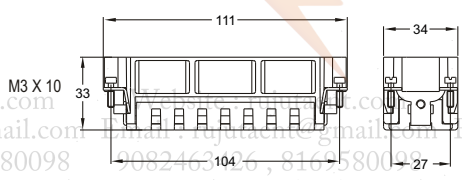

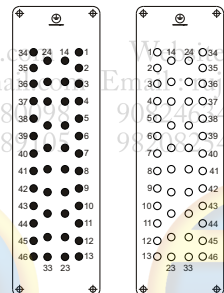
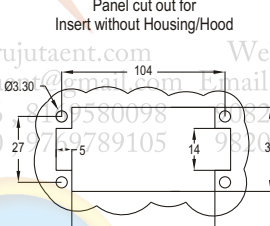
For crimping tool & contact removal tool Page No. 140

Number of Contact

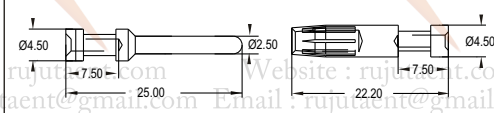

46 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------|---|------------------|---------------|---------------|
| Crimp Terminal | | | | | |
|  | ICO ABS |  | | 0510 046 M021 | |
|  | | | | | 0510 046 F021 |
| | | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | | |

Crimp Contacts

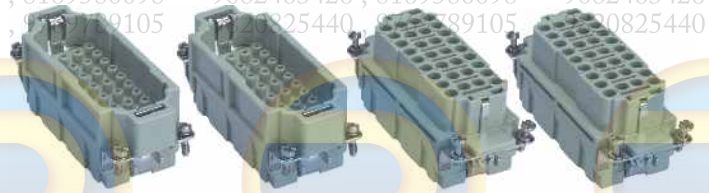
| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|---|--|--|-----------|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|---|--|--|
| Silver plated |  | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M04 0103 000 5M03 0103 000 5M05 0103 000 5M02 0103 000 5M01 0103 000 5M06 0103 000 5M07 0103 000 5M08 | 0103 000 5F04 0103 000 5F03 0103 000 5F05 0103 000 5F02 0103 000 5F01 0103 000 5F06 0103 000 5F07 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M14 0103 000 5M13 0103 000 5M15 0103 000 5M12 0103 000 5M11 0103 000 5M16 0103 000 5M17 0103 000 5M18 | 0103 000 5F14 0103 000 5F13 0103 000 5F15 0103 000 5F12 0103 000 5F11 0103 000 5F16 0103 000 5F17 0103 000 5F18 |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

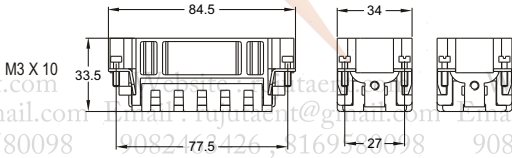
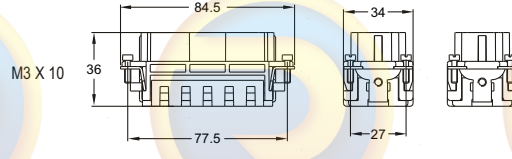


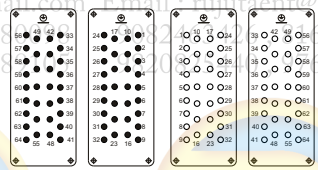
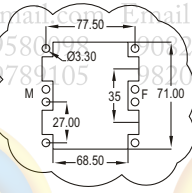
For crimping tool & contact removal tool Page No. 140

Number of Contact

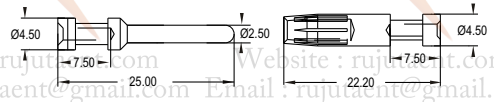

64 (32x2) + 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|---------|---|---|--|--------------------------------|
| Crimp Terminal | ICO ABS |  |  | 0510 032 M021 0510 032 M121 | |
|  | | | |  | 0510 032 F021 0510 032 F121 |
| | | <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for Insert without Housing/Hood</p>  | | |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|---|--|--|-----------|-------------------------------------|--------|-----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|-------------|-----------------------------|--------|-----------|-----------------------------|--------|---|--|--|
| Silver plated |  | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M04 0103 000 5M03 0103 000 5M05 0103 000 5M02 0103 000 5M01 0103 000 5M06 0103 000 5M07 0103 000 5M08 | 0103 000 5F04 0103 000 5F03 0103 000 5F05 0103 000 5F02 0103 000 5F01 0103 000 5F06 0103 000 5F07 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm² AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm² AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm² AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm² AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm² AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm² AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm² AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm² AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² AWG 12 | 7.5 mm | No Groove | 4.00 mm ² AWG 12 | 7.5 mm | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M14 0103 000 5M13 0103 000 5M15 0103 000 5M12 0103 000 5M11 0103 000 5M16 0103 000 5M17 0103 000 5M18 | 0103 000 5F14 0103 000 5F13 0103 000 5F15 0103 000 5F12 0103 000 5F11 0103 000 5F16 0103 000 5F17 0103 000 5F18 |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.14-0.37 mm ² AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.50 mm ² AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 0.75 mm ² AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 1.00 mm ² AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Groove | 1.50 mm ² AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Groove | 2.50 mm ² AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

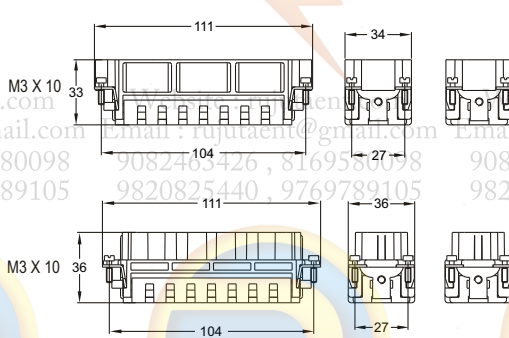
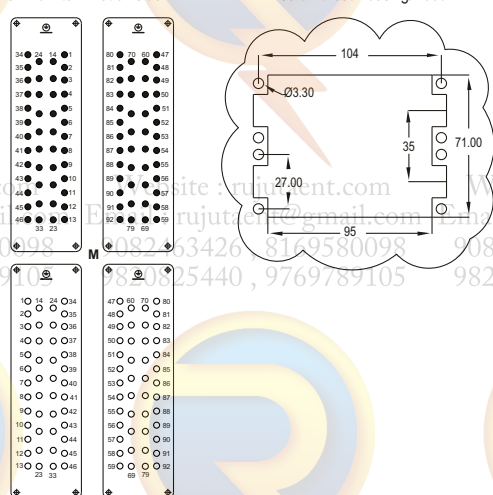
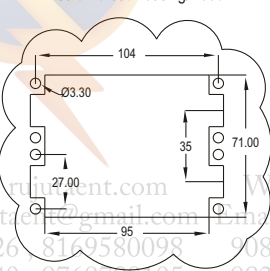

For crimping tool & contact removal tool Page No. 140

Number of Contact

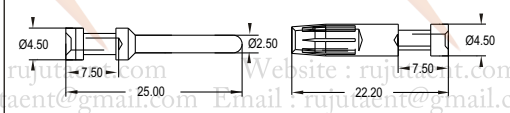
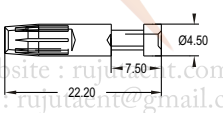

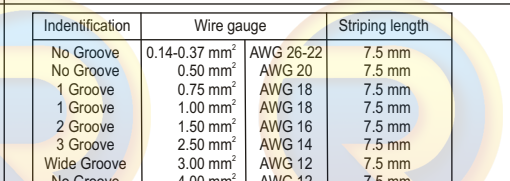
92 

Rating : 16 A-500 V



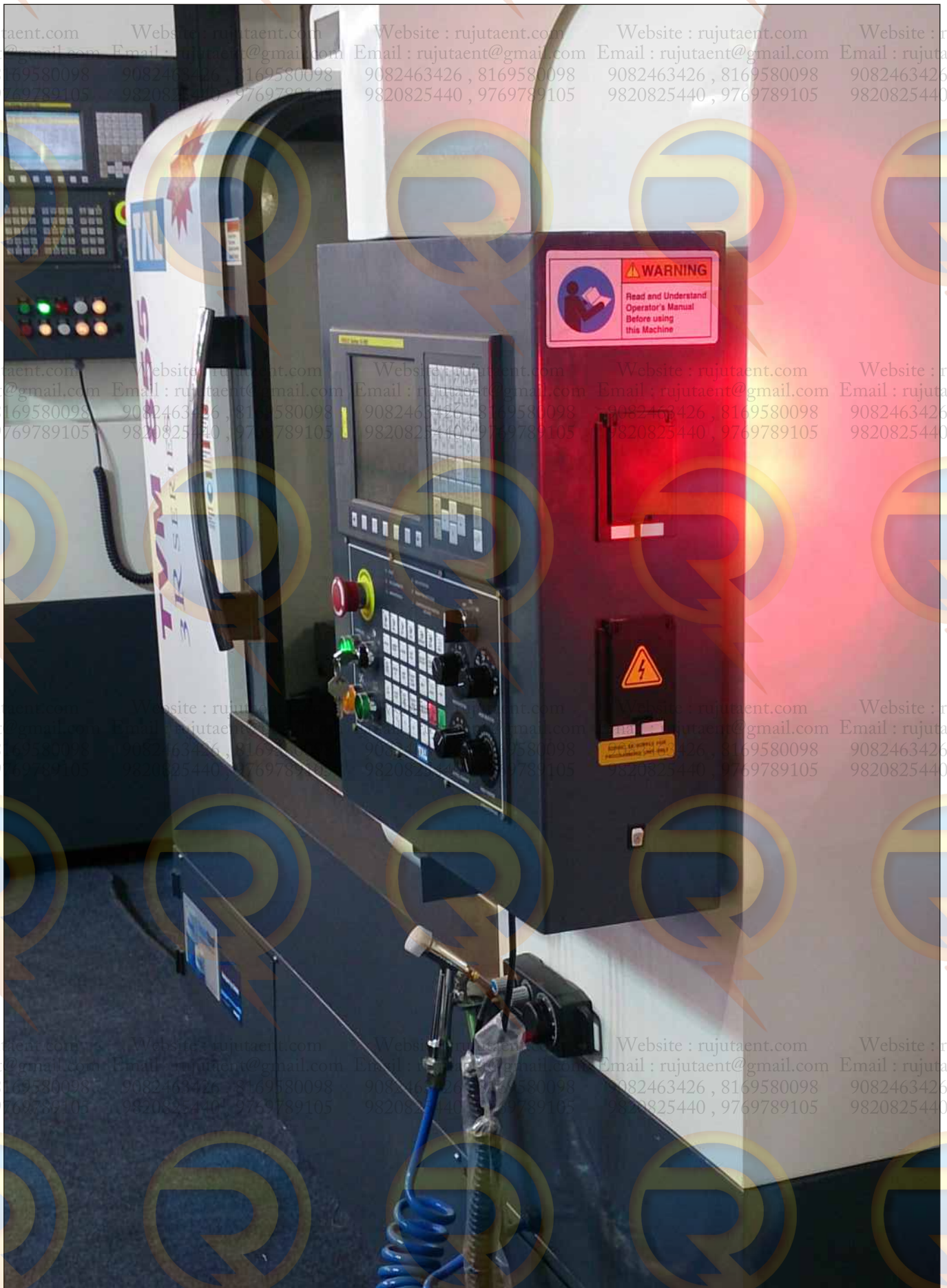
| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|----------------|---------|---|--|--|--------------------------------|
| Crimp Terminal | ICO ABS |  <p>33 111 34 104 M3 X 10</p> <p>36 111 36 27 104 M3 X 10</p> <p>Contact arrangement view from termination side</p> <p>Panel cut out for Insert without Housing/Hood</p>  <p>104 71.00 35 27.00 95 03.30</p> |  | 0510 046 M021 0510 046 M121 | 0510 046 F021 0510 046 F121 |
| | | | |  | |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female |
|----------------|---|---|--------------------|---------------|---------------|
| Silver plated |  |  | 0.14-0.37 | 0103 000 5M04 | 0103 000 5F04 |
| | | | 0.50 | 0103 000 5M03 | 0103 000 5F03 |
| | | | 0.75 | 0103 000 5M05 | 0103 000 5F05 |
| | | | 1.00 | 0103 000 5M02 | 0103 000 5F02 |
| | | | 1.50 | 0103 000 5M01 | 0103 000 5F01 |
| | | | 2.50 | 0103 000 5M06 | 0103 000 5F06 |
| | | | 3.00 | 0103 000 5M07 | 0103 000 5F07 |
| | | | 4.00 | 0103 000 5M08 | 0103 000 5F08 |
| Gold plated |  |  | 0.14-0.37 | 0103 000 5M14 | 0103 000 5F14 |
| | | | 0.50 | 0103 000 5M13 | 0103 000 5F13 |
| | | | 0.75 | 0103 000 5M15 | 0103 000 5F15 |
| | | | 1.00 | 0103 000 5M12 | 0103 000 5F12 |
| | | | 1.50 | 0103 000 5M11 | 0103 000 5F11 |
| | | | 2.50 | 0103 000 5M16 | 0103 000 5F16 |
| | | | 3.00 | 0103 000 5M17 | 0103 000 5F17 |
| | | | 4.00 | 0103 000 5M18 | 0103 000 5F18 |

| Identification | Wire gauge | Stripping length |
|----------------|---------------------------|------------------|
| No Groove | 0.14-0.37 mm ² | AWG 26-22 |
| No Groove | 0.50 mm ² | AWG 20 |
| 1 Groove | 0.75 mm ² | AWG 18 |
| 1 Groove | 1.00 mm ² | AWG 18 |
| 2 Groove | 1.50 mm ² | AWG 16 |
| 3 Groove | 2.50 mm ² | AWG 14 |
| Wide Groove | 3.00 mm ² | AWG 12 |
| No Groove | 4.00 mm ² | AWG 12 |

For crimping tool & contact removal tool Page No. 140



TECHNICAL CHARACTERISTICS

Specifications DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 40,64+PE

Electrical data acc. to EN 61 984 16A 500V 6kV 3

-Rated current 16A

-Rated voltage 500V

-Rated impulse voltage 6kV

-Pollution degree 3

-Pollution degree 2 also

Rated voltage acc. to UL/CSA 600V

Insulation resistance $\geq 10^{10}\Omega$

Material polycarbonate

Limiting temperatures -40°C... +125°C

Flammability acc. to UL 94 V0

Mechanical working life (mating cycles) ≥ 500

Contacts

Material copper alloy

Surface terminal gold plated

silver plated

Contact resistance $\leq 1m\Omega$

Crimp terminal

-Wire gauge 0.5-4.0mm²

-AWG 20-12

-Stripping length 7.5mm

Hoods / Housing

Material Die-Cast aluminum

Surface Powder Coated RAL 7037

Locking Element Zinc plated / Thermoplastic

Temperature Range -40°C... +125°C

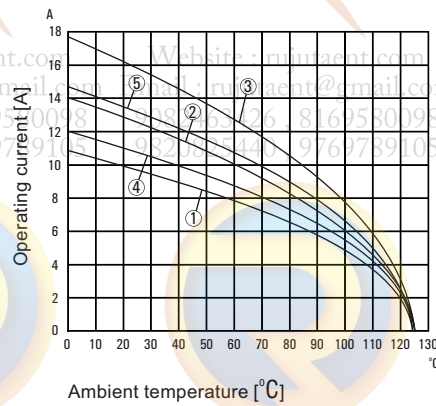
Degree of Protection

For Coupled Connector IP65

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5

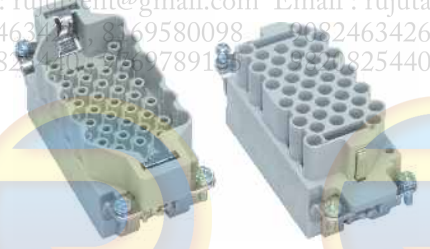



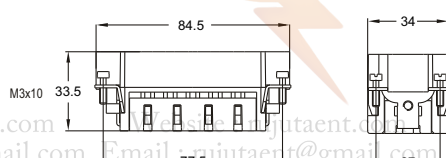

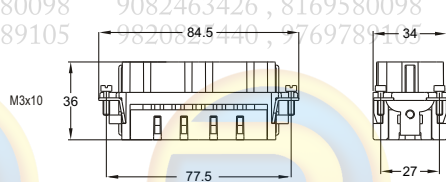
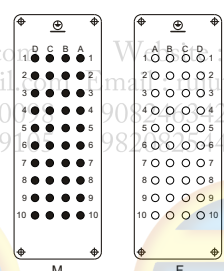
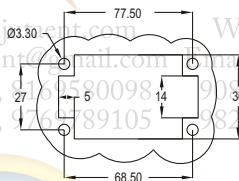
1. ICO ABE-040
2. ICO ABE-064

Number of Contact

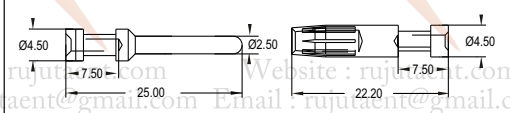

40 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------|---|------------------|---------------|---------------|
| Crimp Terminal | | | | | |
|  | |  | | 0510 040 M021 | |
|  | ICO ABE |  | | | 0510 040 F021 |
| | | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | | |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|---|--|--|-----------|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|---|--|--|
| Silver plated |  | | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M04 0103 000 5M03 0103 000 5M05 0103 000 5M02 0103 000 5M01 0103 000 5M06 0103 000 5M07 0103 000 5M08 | 0103 000 5F04 0103 000 5F03 0103 000 5F05 0103 000 5F02 0103 000 5F01 0103 000 5F06 0103 000 5F07 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | 0.14-0.37 0.50 0.75 1.00 1.50 2.50 3.00 4.00 | 0103 000 5M14 0103 000 5M13 0103 000 5M15 0103 000 5M12 0103 000 5M11 0103 000 5M16 0103 000 5M17 0103 000 5M18 | 0103 000 5F14 0103 000 5F13 0103 000 5F15 0103 000 5F12 0103 000 5F11 0103 000 5F16 0103 000 5F17 0103 000 5F18 |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



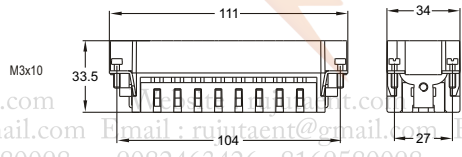
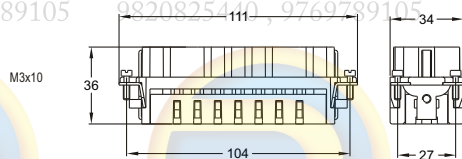
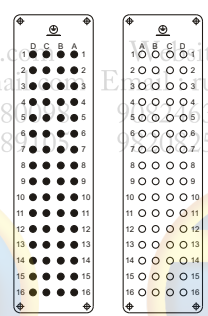
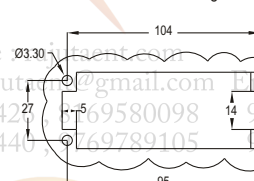
For crimping tool & contact removal tool Page No. 140

Number of Contact


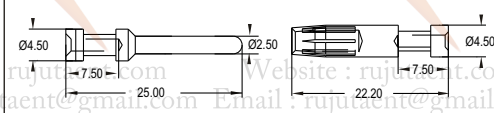
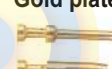
64 

Rating : 16 A-500 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|---------|--|---|---------------|---------------|
| Crimp Terminal   | ICO ABE |     | <p>111</p> <p>34</p> <p>33.5</p> <p>104</p> <p>27</p> <p>36</p> <p>104</p> <p>27</p> <p>104</p> <p>95</p> | 0510 064 M021 | 0510 064 F021 |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-------------------------------------|------------------|---------------|-------------------------------------|--------|-----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|----------|-----------------------------|--------|-------------|-----------------------------|--------|-----------|-----------------------------|--------|--|---------------|---------------|
| Silver plated  |  | <p>04.50</p> <p>7.50</p> <p>25.00</p> <p>02.50</p> <p>7.50</p> <p>22.20</p> <p>04.50</p> | 0.14-0.37 | 0103 000 5M04 | 0103 000 5F04 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 5M03 | 0103 000 5F03 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.75 | 0103 000 5M05 | 0103 000 5F05 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.00 | 0103 000 5M02 | 0103 000 5F02 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.50 | 0103 000 5M01 | 0103 000 5F01 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2.50 | 0103 000 5M06 | 0103 000 5F06 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3.00 | 0103 000 5M07 | 0103 000 5F07 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 4.00 | 0103 000 5M08 | 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm² AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm² AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm² AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm² AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm² AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm² AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm² AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm² AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² AWG 12 | 7.5 mm | No Groove | 4.00 mm ² AWG 12 | 7.5 mm | <p>0.14-0.37</p> <p>0.50</p> <p>0.75</p> <p>1.00</p> <p>1.50</p> <p>2.50</p> <p>3.00</p> <p>4.00</p> | 0103 000 5M14 | 0103 000 5F14 |
| | | Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.14-0.37 mm ² AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.50 mm ² AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 0.75 mm ² AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 1.00 mm ² AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 Groove | 1.50 mm ² AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 Groove | 2.50 mm ² AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.50 | 0103 000 5M13 | 0103 000 5F13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | 0103 000 5M15 | 0103 000 5F15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0103 000 5M12 | 0103 000 5F12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.50 | 0103 000 5M11 | 0103 000 5F11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.50 | 0103 000 5M16 | 0103 000 5F16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 0103 000 5M17 | 0103 000 5F17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 0103 000 5M18 | 0103 000 5F18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

PLC Controlled Overhead
Automated System For
Transfer Of Components
with Cloud Based M2M

Rail Mounted Zero Gravity Manipulator
With Barcode Scanner For Component
Identification
Air Motor Based Travel Drive
Smart Energy Meter (M2M)

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

ICO C, ICO CA

TECHNICAL CHARACTERISTICS

Specifications

DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 3,4,10,16,24,32(16x2),48(16x3),
64(16x4),72(24x3) + PE

Electrical data acc. to EN 61 984

ICO C-003 & 004 10A 250/400V 4kV 3

-Rated current

10A

-Rated voltage conductor

250V

-Rated voltage conductor

400V

-Rated impulse voltage

4kV

-Pollution degree

3

ICO CA- 10

16A 250V 4kV 3

-Rated current

16A

-Rated voltage

250V

-Rated impulse voltage

4kV

-Pollution degree

3

-Pollution degree 2 also

16A 230/400V 4kV 2

Rated voltage acc. to UL/CSA

600V

Insulation resistance

$\geq 10^{10}\Omega$

Material

polycarbonate

Limiting temperatures

-40°C... +125°C

Flammability acc. to UL 94

V0

Mechanical working life (mating cycles)

≥ 500

Contacts

Material

copper alloy

Surface terminal

gold plated

silver plated

Contact resistance

$\leq 1m\Omega$

Screw terminal

-Wire gauge

1.0-2.5mm²

-AWG

18-14

-Stripping Length

7.0 mm

-Tightening/Test torque

0.25Nm (ICO C 3 & 4) or
0.5Nm (ICO CA 10,16 & 24)

Hoods / Housing

Material

Die-Cast aluminum

Surface

Powder Coated RAL 7037

Locking Element

Zinc plated / Thermoplastic

Temperature Range

-40°C... +125°C

Degree of Protection

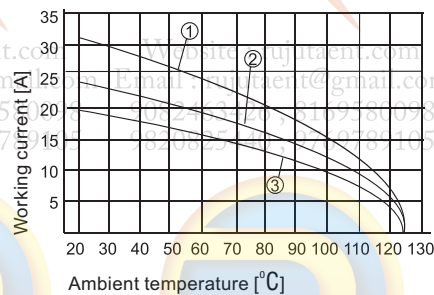
For Coupled Connector

IP65

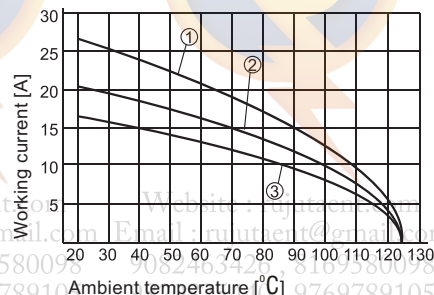
Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

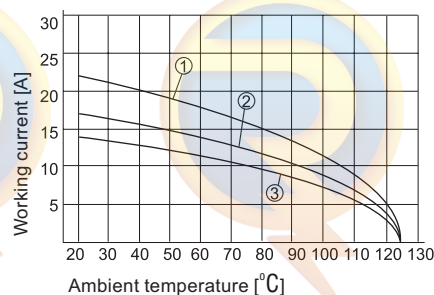
Control and test procedures according to DIN EN 60512-5



ICO C 3 & 4
1. 2.5mm²
2. 1.5mm²
3. 1.0mm²



ICO CA 10
1. 2.5mm²
2. 1.5mm²
3. 1.0mm²




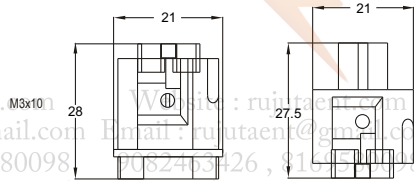

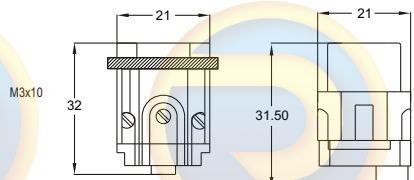
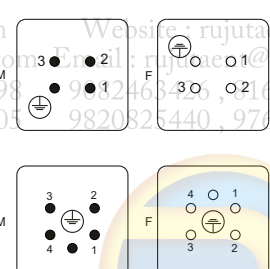
ICO CA 16, 24
1. 2.5mm²
2. 1.5mm²
3. 1.0mm²

Number of Contact

3+  & **4+** 

Rating : 10 A-250/400 V

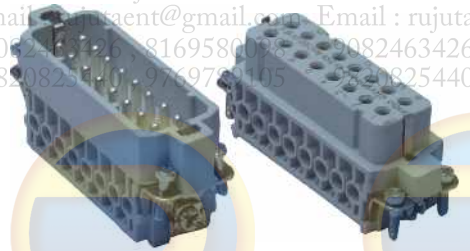




| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|--------|---|------------------|---------------|---------------|
| <p>Screw Terminal</p>  | ICO C |  | | 0120 003 M011 | 0120 003 F011 |
| <p>Screw Terminal</p>  | ICO C |  | | 0120 004 M011 | 0120 004 F011 |
| | | <p>Contact arrangement view from termination side</p>  | | | |

Number of Contact

16+ 

Rating : 16 A-250 V

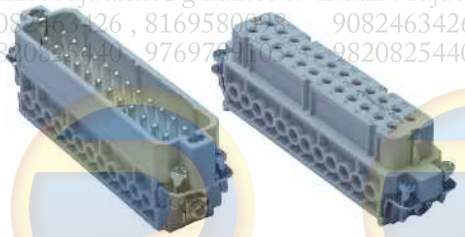



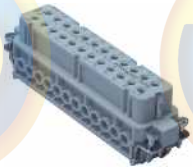
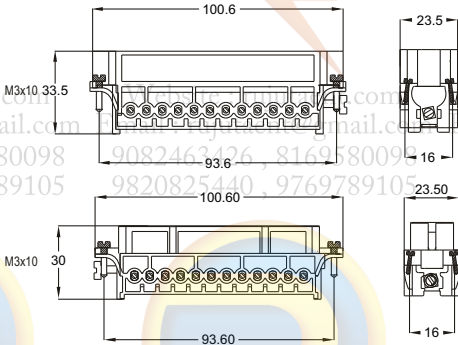
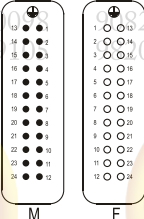
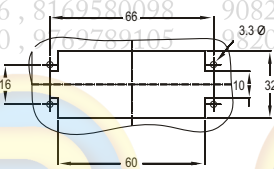
| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------------|--|--|----------------------|----------------------|
| <p>Screw Terminal</p>   | <p>ICO CA</p> | | | <p>0140 016 M011</p> | <p>0140 016 F011</p> |
| | | <p>Contact arrangement view from termination side</p> <p>M F</p> | <p>Panel cut out for Insert without Housing/Hood</p> | | |

Number of Contact

24+ 

Rating : 16 A-250 V

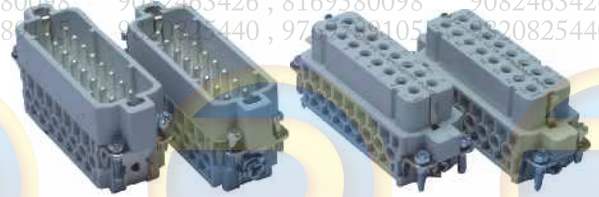



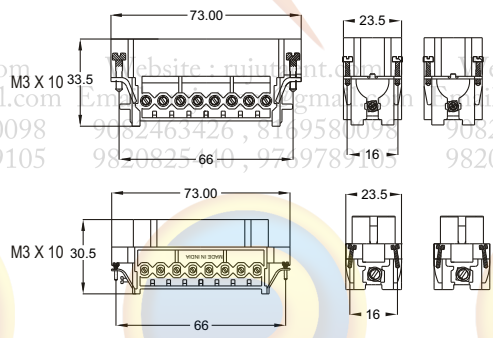
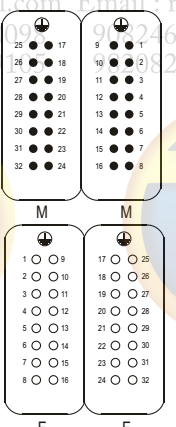
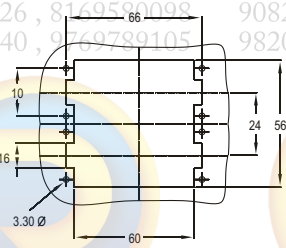
| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------------|--|------------------|----------------------|----------------------|
| <p>Screw Terminal</p>   | <p>ICO CA</p> |  <p>Contact arrangement / view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | <p>0140 024 M011</p> | <p>0140 024 F011</p> |

Number of Contact

32(16x2) + 

Rating : 16 A-250 V

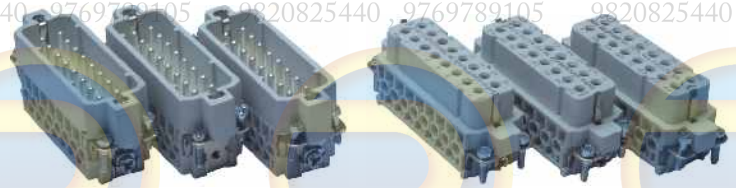



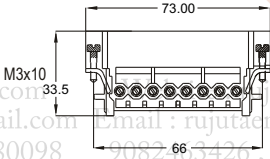
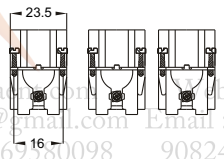

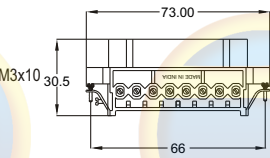
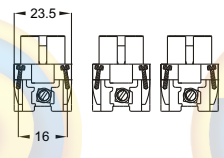
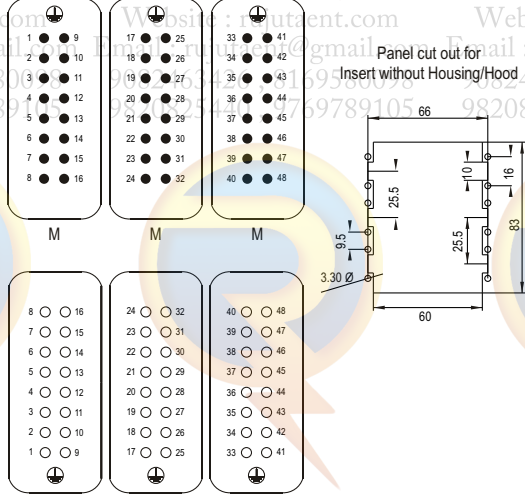
| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------------|---|------------------|--|--|
| <p>Screw Terminal</p>  | <p>ICO CA</p> |  | | <p>0140 016 M011 0140 016 M111</p> | <p>0140 016 F011 0140 016 F111</p> |
| | | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | | |

Number of Contact

48 (16x3) ± 

Rating : 16 A-250 V

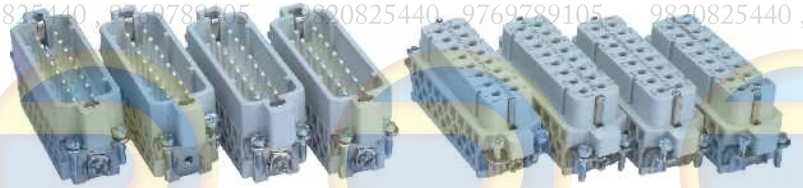



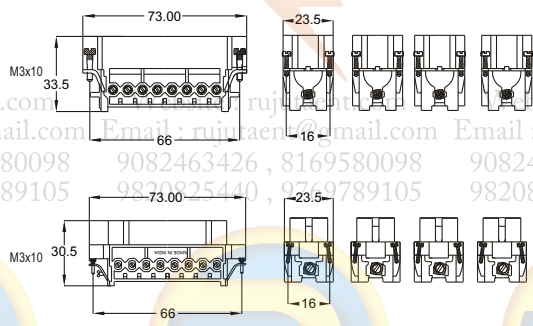
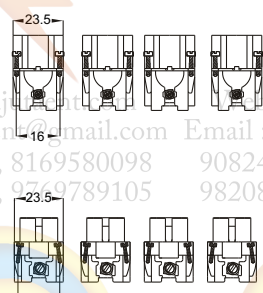
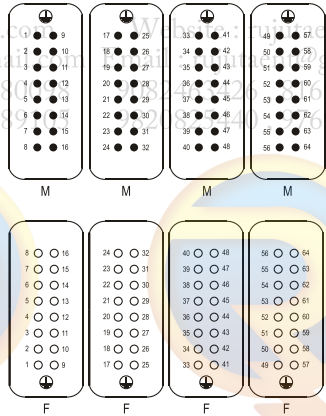
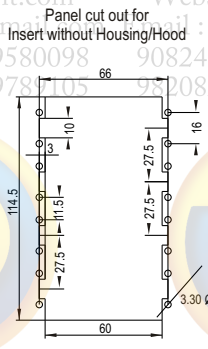
| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|---------------|--|--|--|--|
| <p>Screw Terminal</p>  | <p>ICO CA</p> |  |  | <p>0140 016 M011 0140 016 M111 0140 016 M211</p> | |
|  | |  |  | | <p>0140 016 F011 0140 016 F111 0140 016 F211</p> |
| | | <p>Contact arrangement view from termination side</p> |  | | |

Number of Contact

64 (16x4) ± 

Rating : 16 A-250 V

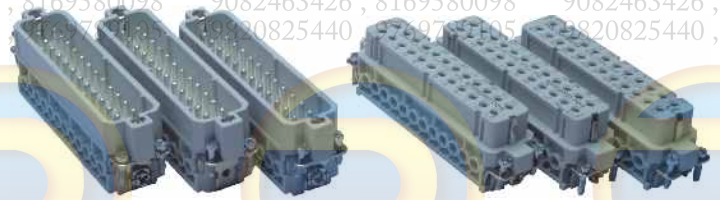



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------------|---|---|--|--|
| <p>Screw Terminal</p>  | <p>ICO CA</p> |  |  | <p>0140 016 M011 0140 016 M111 0140 016 M211 0140 016 M311</p> | <p>0140 016 F011 0140 016 F111 0140 016 F211 0140 016 F311</p> |
| | | <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for Insert without Housing/Hood</p>  | | |

Number of Contact

72 (24x3) + 

Rating : 16 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------------|---------|--|--|--------|
| <p>Screw Terminal</p>  | <p>ICO CA</p> | | <p>0140 024 M011 0140 024 M111 0140 024 M211</p> | <p>0140 024 F011 0140 024 F111 0140 024 F211</p> | |
| <p>Contact arrangement view from termination side</p> <p>Panel cut out for Insert without Housing/Hood</p> | | | | | |



TECHNICAL CHARACTERISTICS

Specifications

DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 7,8,15,25,40,50,(25x2),64,80
(40x2),128(64x2)+PE

Electrical data acc. to EN 61 984 10A 250V 4kV 3

-Rated current 10A

-Rated voltage 250V

-Rated impulse voltage 4kV

-Pollution degree 3

-Pollution degree 2 also 10A 230/400V 4kV 2

Rated voltage acc. to UL/CSA 600V
Rated voltage for wrap terminal acc. to CSA 2A 30V

Insulation resistance $\geq 10^{10}\Omega$

Material polyamide

Limiting temperatures -40°C... +125°C

Flammability acc. to UL 94 V0

Mechanical working life (mating cycles) ≥ 500

Contacts

Material copper alloy

Surface terminal gold plated

silver plated

Contact resistance $\leq 3m\Omega$

Crimp terminal

-Wire gauge 0.14-2.5mm²

-AWG 26-14

-Stripping Length 7.0 mm

Hoods / Housing

Material Die-Cast aluminum

Surface Powder Coated RAL 7037

Locking Element Zinc plated / Thermoplastic

Temperature Range -40°C... +125°C

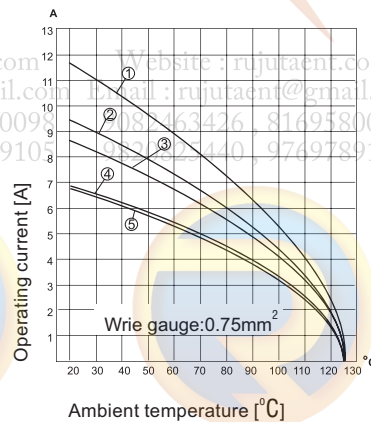
Degree of Protection

For Coupled Connector IP65

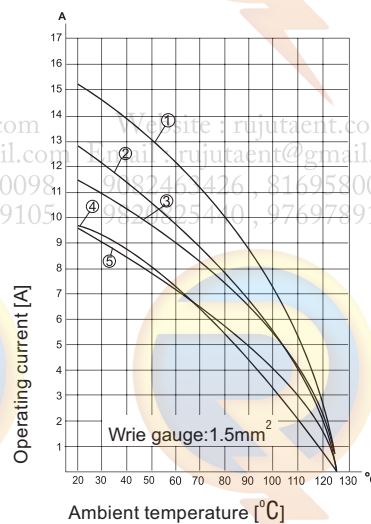
Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



1. ICO D-007
2. ICO D-015
3. ICO D-025
4. ICO D-040
5. ICO D-064



1. ICO D-007
2. ICO D-015
3. ICO D-025
4. ICO D-040
5. ICO D-064

ICO D


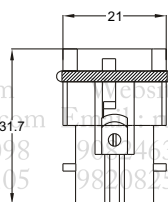
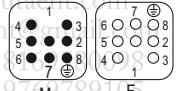
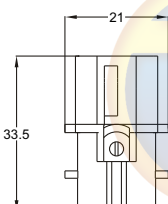




For Hoods/Housing please refer page no. 71-73


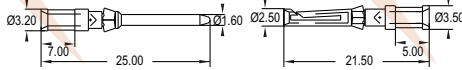

Number of Contact

7+  & **8+** 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|--------|---|--|---------------|--------|
| <p>Crimp Terminal</p>  | ICO D |  <p>Contact arrangement view from termination side</p>  |  <p>Contact arrangement view from termination side</p>  | 0120 007 M021 | |
|  | | | | 0120 007 F021 | |
| <p>Crimp Terminal</p>  | ICO D | | | 0120 008 M021 | |
|  | | | | 0120 008 F021 | |

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------------|---|--|--|-----------|---------|---------------------|--------|---------|----------------------|-------|---------|-------------------|-------|---------|---------------------|-------|---------|---------------------|-------|---------|--|---|--|--|
| <p>Crimp Contacts</p> <p>Silver plated</p>  |  | | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M04 0103 000 4M03 0103 000 4M05 0103 000 4M02 0103 000 4M01 0103 000 4M06 | 0103 000 4F04 0103 000 4F03 0103 000 4F05 0103 000 4F02 0103 000 4F01 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | |
| <p>Gold plated</p>  | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG18</td> <td>1.30 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG18</td> <td>1.45 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG16</td> <td>1.75 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG14</td> <td>2.25 mm</td> </tr> </tbody> </table> | Wire gauge | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 0.75 MM ² | AWG18 | 1.30 mm | 1 MM ² | AWG18 | 1.45 mm | 1.5 MM ² | AWG16 | 1.75 mm | 2.5 MM ² | AWG14 | 2.25 mm | | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M14 0103 000 4M13 0103 000 4M15 0103 000 4M12 0103 000 4M11 0103 000 4M16 | 0103 000 4F14 0103 000 4F13 0103 000 4F15 0103 000 4F12 0103 000 4F11 0103 000 4F16 |
| Wire gauge | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG18 | 1.30 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG18 | 1.45 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG16 | 1.75 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG14 | 2.25 mm | | | | | | | | | | | | | | | | | | | | | | | | |


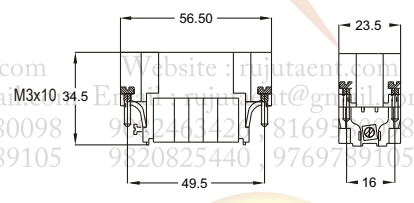
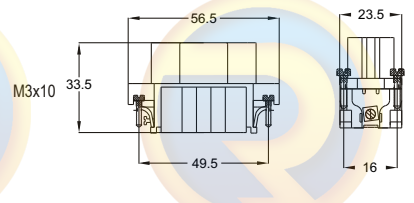
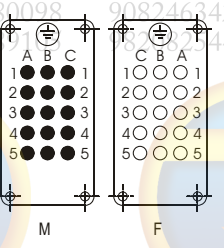
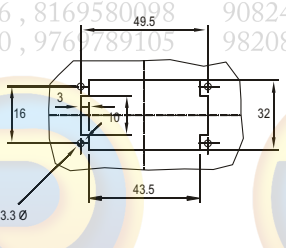
For crimping tool & contact removal tool Page No. 140


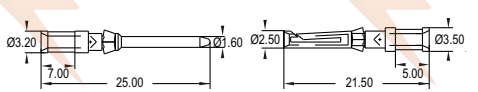

Number of Contact

15+ 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|--------|---|--|---------------|---------------|
| Crimp Terminal  | ICO D |  |  | 0120 015 M021 | |
| | | | | | 0120 015 F021 |
| | | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | | |

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female |
|---|---|------------------|--------------------|---------------|---------------|
| Crimp Contacts  |  | | | 0103 000 4M04 | 0103 000 4F04 |
| | | | | 0103 000 4M03 | 0103 000 4F03 |
| Gold plated  | | | | 0103 000 4M05 | 0103 000 4F05 |
| | | | | 0103 000 4M02 | 0103 000 4F02 |
| | | | | 0103 000 4M01 | 0103 000 4F01 |
| | | | | 0103 000 4M06 | 0103 000 4F06 |
| | | | | 0103 000 4M14 | 0103 000 4F14 |
| | | | | 0103 000 4M13 | 0103 000 4F13 |
| | | | | 0103 000 4M15 | 0103 000 4F15 |
| | | | | 0103 000 4M12 | 0103 000 4F12 |
| 0103 000 4M11 | 0103 000 4F11 | | | | |
| 0103 000 4M16 | 0103 000 4F16 | | | | |

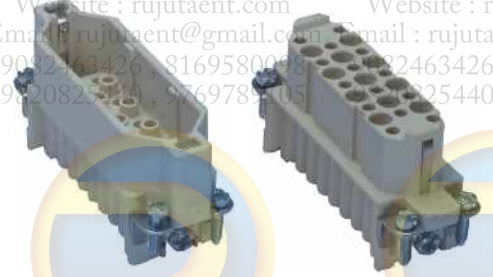
| Wire gauge | | ∅ | Stripping length |
|---------------------------|-----------|---------|------------------|
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm |
| 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm |
| 0.75 MM ² | AWG18 | 1.30 mm | 8 mm |
| 1 MM ² | AWG18 | 1.45 mm | 8 mm |
| 1.5 MM ² | AWG16 | 1.75 mm | 8 mm |
| 2.5 MM ² | AWG14 | 2.25 mm | 6 mm |

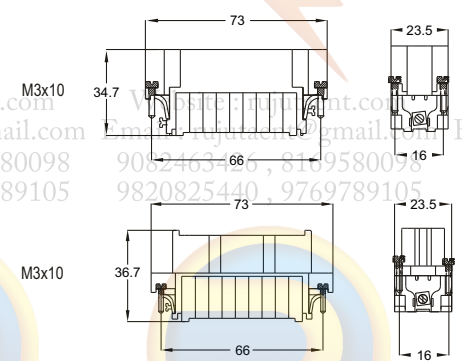
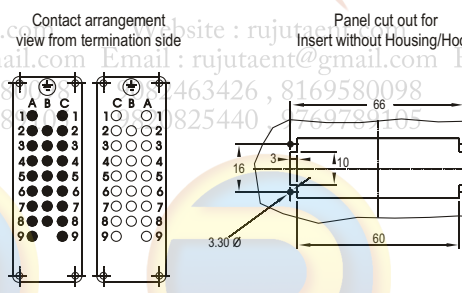


For crimping tool & contact removal tool Page No. 140

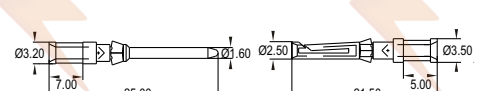

Number of Contact

25+ 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|--------|--|---|---------------|---------------|
| Crimp Terminal | ICO D |  |  | 0120 025 M021 | 0120 025 F021 |
|   | | | | | |

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|--|--|---------------------------|-----------|---------|---------------------|--------|---------|----------------------|-------|---------|-------------------|-------|---------|---------------------|-------|---------|---------------------|-------|---------|---|--|--|
| Crimp Contacts |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver plated | | | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M04 0103 000 4M03 0103 000 4M05 0103 000 4M02 0103 000 4M01 0103 000 4M06 | 0103 000 4F04 0103 000 4F03 0103 000 4F05 0103 000 4F02 0103 000 4F01 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG18</td> <td>1.30 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG18</td> <td>1.45 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG16</td> <td>1.75 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG14</td> <td>2.25 mm</td> </tr> </tbody> </table> | Wire gauge | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 0.75 MM ² | AWG18 | 1.30 mm | 1 MM ² | AWG18 | 1.45 mm | 1.5 MM ² | AWG16 | 1.75 mm | 2.5 MM ² | AWG14 | 2.25 mm | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M14 0103 000 4M13 0103 000 4M15 0103 000 4M12 0103 000 4M11 0103 000 4M16 | 0103 000 4F14 0103 000 4F13 0103 000 4F15 0103 000 4F12 0103 000 4F11 0103 000 4F16 |
| Wire gauge | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG18 | 1.30 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG18 | 1.45 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG16 | 1.75 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG14 | 2.25 mm | | | | | | | | | | | | | | | | | | | | | | | | |

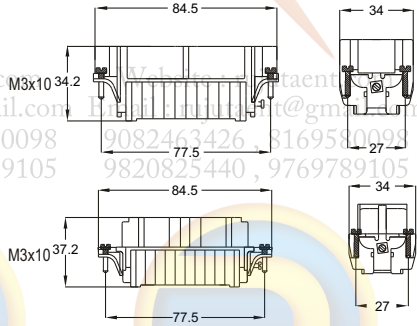
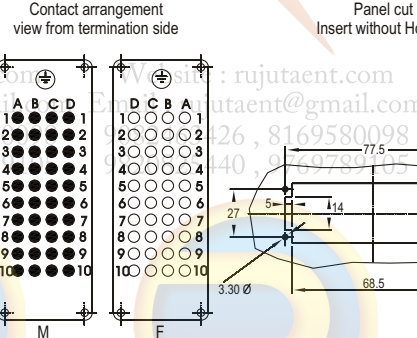

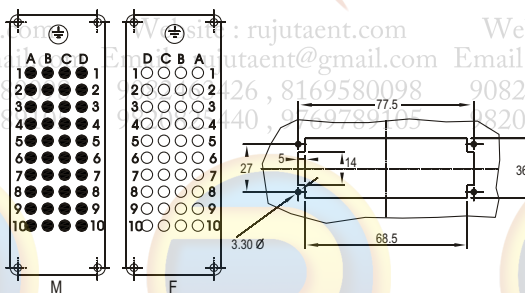
For crimping tool & contact removal tool Page No. 140

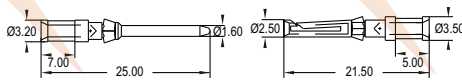

Number of Contact

40 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|--------|--|---|---|---------------|
| Crimp Terminal | ICO D |  |  | 0120 040 M021 | 0120 040 F021 |
|  | | | | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p> | |

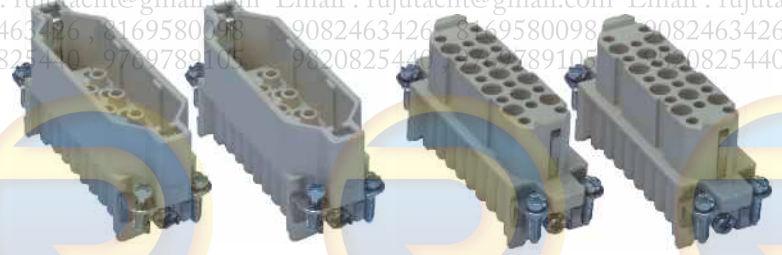
| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|--|--|---------------------------|-----------|---------|---------------------|--------|---------|----------------------|--------|---------|-------------------|--------|---------|---------------------|--------|---------|---------------------|--------|---------|---|--|--|
| Crimp Contacts |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver plated | | | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M04 0103 000 4M03 0103 000 4M05 0103 000 4M02 0103 000 4M01 0103 000 4M06 | 0103 000 4F04 0103 000 4F03 0103 000 4F05 0103 000 4F02 0103 000 4F01 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>Wire diameter</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG 18</td> <td>1.30 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG 18</td> <td>1.45 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG 16</td> <td>1.75 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG 14</td> <td>2.25 mm</td> </tr> </tbody> </table> | Wire gauge | Wire diameter | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 0.75 MM ² | AWG 18 | 1.30 mm | 1 MM ² | AWG 18 | 1.45 mm | 1.5 MM ² | AWG 16 | 1.75 mm | 2.5 MM ² | AWG 14 | 2.25 mm | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M14 0103 000 4M13 0103 000 4M15 0103 000 4M12 0103 000 4M11 0103 000 4M16 | 0103 000 4F14 0103 000 4F13 0103 000 4F15 0103 000 4F12 0103 000 4F11 0103 000 4F16 |
| Wire gauge | Wire diameter | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG 18 | 1.30 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG 18 | 1.45 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG 16 | 1.75 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG 14 | 2.25 mm | | | | | | | | | | | | | | | | | | | | | | | | |

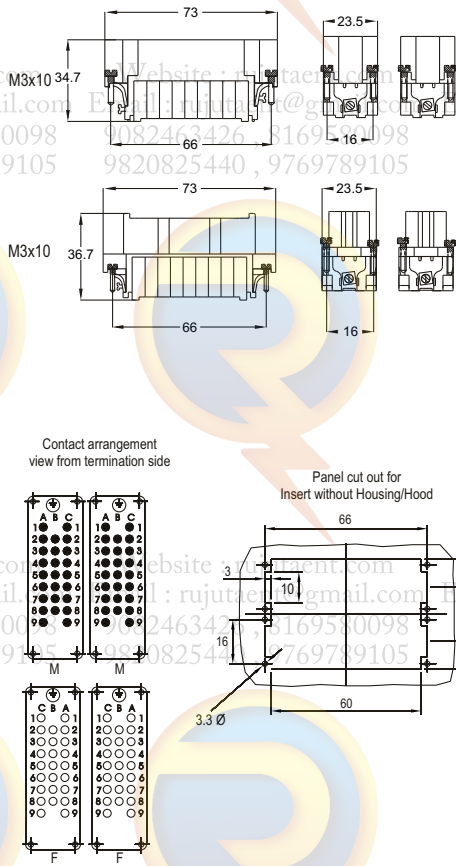
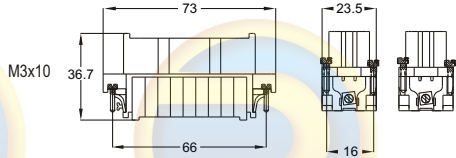

For crimping tool & contact removal tool Page No. 140

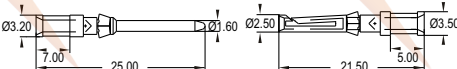

Number of Contact

50 (25x2) ± 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|--------|--|--|--------------------------------|--------|
| Crimp Terminal | ICO D |  |  | 0120 025 M021 0120 025 M021 | |
|  | | | | 0120 025 F021 0120 025 F021 | |

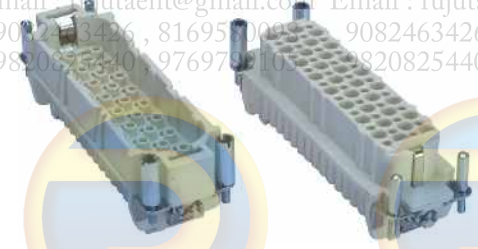
| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|--|--|---------------------------|-----------|---------|---------------------|--------|---------|----------------------|-------|---------|-------------------|-------|---------|---------------------|-------|---------|---------------------|-------|---------|---|--|--|
| Crimp Contacts |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver plated | | | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M04 0103 000 4M03 0103 000 4M05 0103 000 4M02 0103 000 4M01 0103 000 4M06 | 0103 000 4F04 0103 000 4F03 0103 000 4F05 0103 000 4F02 0103 000 4F01 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG18</td> <td>1.30 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG18</td> <td>1.45 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG16</td> <td>1.75 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG14</td> <td>2.25 mm</td> </tr> </tbody> </table> | Wire gauge | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 0.75 MM ² | AWG18 | 1.30 mm | 1 MM ² | AWG18 | 1.45 mm | 1.5 MM ² | AWG16 | 1.75 mm | 2.5 MM ² | AWG14 | 2.25 mm | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M14 0103 000 4M13 0103 000 4M15 0103 000 4M12 0103 000 4M11 0103 000 4M16 | 0103 000 4F14 0103 000 4F13 0103 000 4F15 0103 000 4F12 0103 000 4F11 0103 000 4F16 |
| Wire gauge | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG18 | 1.30 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG18 | 1.45 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG16 | 1.75 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG14 | 2.25 mm | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140

Number of Contact

64 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|----------------|--------|---------|------------------|---------------|---------------|
| Crimp Terminal | ICO D | | | 0120 064 M021 | 0120 064 F021 |
| | | | | | |
| | | | | | |

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------|--|---|--|--|---------------------------|-----------|---------|---------------------|--------|---------|----------------------|--------|---------|-------------------|--------|---------|---------------------|--------|---------|---------------------|--------|---------|---|--|--|
| Crimp Contacts | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver plated | | | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M04 0103 000 4M03 0103 000 4M05 0103 000 4M02 0103 000 4M01 0103 000 4M06 | 0103 000 4F04 0103 000 4F03 0103 000 4F05 0103 000 4F02 0103 000 4F01 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | |
| Gold plated | | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>Wire diameter</th> <th>Striping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG 18</td> <td>1.30 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG 18</td> <td>1.45 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG 16</td> <td>1.75 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG 14</td> <td>2.25 mm</td> </tr> </tbody> </table> | Wire gauge | Wire diameter | Striping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 0.75 MM ² | AWG 18 | 1.30 mm | 1 MM ² | AWG 18 | 1.45 mm | 1.5 MM ² | AWG 16 | 1.75 mm | 2.5 MM ² | AWG 14 | 2.25 mm | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M14 0103 000 4M13 0103 000 4M15 0103 000 4M12 0103 000 4M11 0103 000 4M16 | 0103 000 4F14 0103 000 4F13 0103 000 4F15 0103 000 4F12 0103 000 4F11 0103 000 4F16 |
| Wire gauge | Wire diameter | Striping length | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG 18 | 1.30 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG 18 | 1.45 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG 16 | 1.75 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG 14 | 2.25 mm | | | | | | | | | | | | | | | | | | | | | | | | |


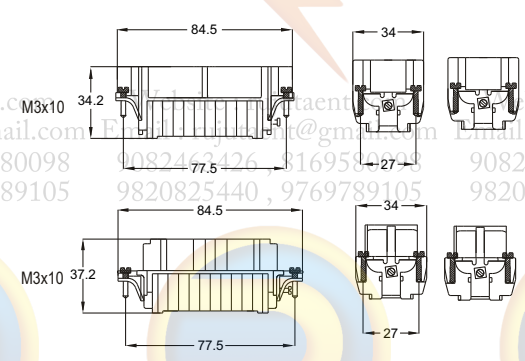
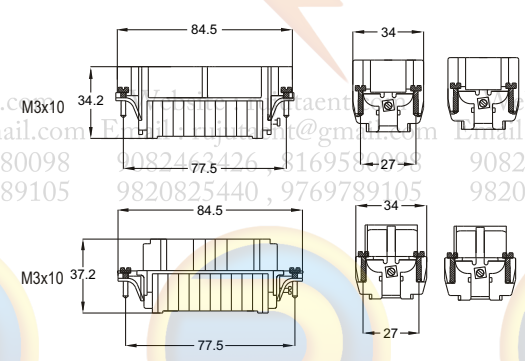
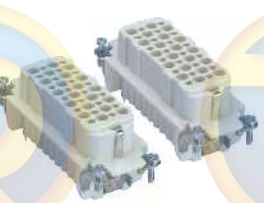
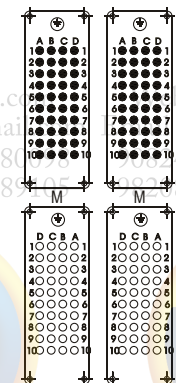
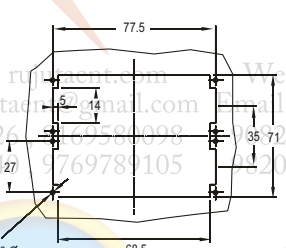
For crimping tool & contact removal tool Page No. 140

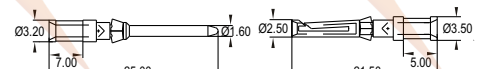

Number of Contact

80 (40x2) + 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|--------|---|---|--------------------------------|--------------------------------|
| <p>Crimp Terminal</p>  | ICO D |  |  | 0120 040 M021 0120 040 M021 | |
|  | | | | | 0120 040 F021 0120 040 F021 |
| | | <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for Insert without Housing/Hood</p>  | | |

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female |
|--|---|------------------|--------------------|---------------|---------------|
| <p>Crimp Contacts</p> |  | | | 0103 000 4M04 | 0103 000 4F04 |
| <p>Silver plated</p> | | | | 0103 000 4M03 | 0103 000 4F03 |
| <p>Gold plated</p>  | | | | 0103 000 4M05 | 0103 000 4F05 |
| | | | | 0103 000 4M02 | 0103 000 4F02 |
| | | | | 0103 000 4M01 | 0103 000 4F01 |
| | | | | 0103 000 4M06 | 0103 000 4F06 |
| | | | | 0103 000 4M14 | 0103 000 4F14 |
| | | | | 0103 000 4M13 | 0103 000 4F13 |
| | | | | 0103 000 4M15 | 0103 000 4F15 |
| | | | | 0103 000 4M12 | 0103 000 4F12 |
| | | | | 0103 000 4M11 | 0103 000 4F11 |
| | | | | 0103 000 4M16 | 0103 000 4F16 |

| Wire gauge | AWG | Ø | Stripping length |
|---------------------------|-----------|---------|------------------|
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm |
| 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm |
| 0.75 MM ² | AWG18 | 1.30 mm | 8 mm |
| 1 MM ² | AWG18 | 1.45 mm | 8 mm |
| 1.5 MM ² | AWG16 | 1.75 mm | 8 mm |
| 2.5 MM ² | AWG14 | 2.25 mm | 6 mm |

For crimping tool & contact removal tool Page No. 140

Number of Contact

128 (64x2) ±

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|----------------|--------|---------|------------------|--------------------------------|--------------------------------|
| Crimp Terminal | ICO D | | | 0120 064 M021 0120 064 M021 | |
| | | | | | 0120 064 F021 0120 064 F021 |

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---------------------------|--------------------|------------------|---------------------------|-----------|---------|---------------------|--------|---------|----------------------|-------|---------|-------------------|-------|---------|---------------------|-------|---------|---------------------|-------|---------|--|--|---------------|---------------|
| Crimp Contacts | | | | 0103 000 4M04 | 0103 000 4F04 | | | | | | | | | | | | | | | | | | | | | |
| Silver plated | | | | 0103 000 4M03 | 0103 000 4F03 | | | | | | | | | | | | | | | | | | | | | |
| Gold plated | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG18</td> <td>1.30 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG18</td> <td>1.45 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG16</td> <td>1.75 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG14</td> <td>2.25 mm</td> </tr> </tbody> </table> | Wire gauge | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 0.75 MM ² | AWG18 | 1.30 mm | 1 MM ² | AWG18 | 1.45 mm | 1.5 MM ² | AWG16 | 1.75 mm | 2.5 MM ² | AWG14 | 2.25 mm | | | 0103 000 4M05 | 0103 000 4F05 |
| | | Wire gauge | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | |
| | | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | | | | | | | | | | | | | | | | | | | | | | |
| | | 0.5 MM ² | AWG 20 | 1.10 mm | | | | | | | | | | | | | | | | | | | | | | |
| | | 0.75 MM ² | AWG18 | 1.30 mm | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 MM ² | AWG18 | 1.45 mm | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG16 | 1.75 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG14 | 2.25 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0103 000 4M02 | 0103 000 4F02 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0103 000 4M01 | 0103 000 4F01 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0103 000 4M06 | 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0103 000 4M14 | 0103 000 4F14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0103 000 4M13 | 0103 000 4F13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0103 000 4M15 | 0103 000 4F15 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0103 000 4M12 | 0103 000 4F12 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0103 000 4M11 | 0103 000 4F11 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0103 000 4M16 | 0103 000 4F16 | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140



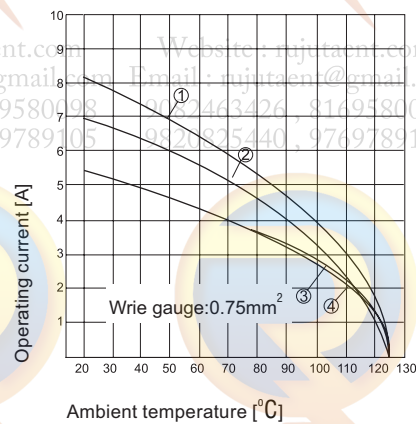
TECHNICAL CHARACTERISTICS

| | |
|---|---|
| Specifications | DIN EN 60 664 DIN EN 61 984 |
| Inserts | |
| Number of contacts | 24,42,72,108,144(72x2), 216(108x2) +PE |
| Electrical data acc. to EN 61 984 | 10A 250V 4kV 3 |
| -Rated current | 10A |
| -Rated voltage | 250V |
| -Rated impulse voltage | 4kV |
| -Pollution degree | 3 |
| -Pollution degree 2 also | 10A 230/400V 4kV 2 |
| Rated voltage acc. to UL/CSA | 600V |
| Insulation resistance | $\geq 10^{10}\Omega$ |
| Material | polycarbonate |
| Limiting temperatures | -40°C... +125°C |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life (mating cycles) | ≥ 500 |
| Contacts | |
| Material | copper alloy |
| Surface terminal | gold plated silver plated |
| Contact resistance | $\leq 3m\Omega$ |
| Crimp terminal | |
| -Wire gauge | 0.14-2.5mm ² |
| -AWG | 26-14 |
| -Stripping Length | 7.0 mm |
| Hoods/ Housing | |
| Material | Die-Cast aluminum |
| Surface | Powder Coated RAL 7037 |
| Locking Element | Zinc plated / Thermoplastic |
| Temperature Range | -40°C... +125°C |
| Degree of Protection | |
| For Coupled Connector | IP65 |

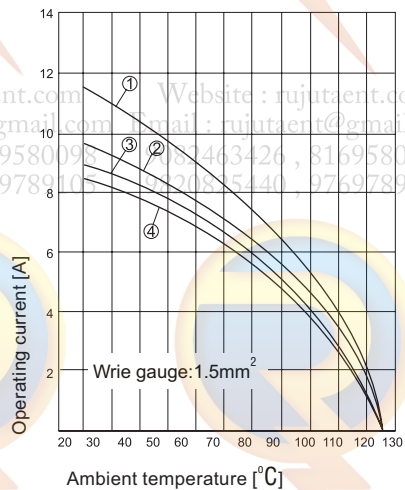
Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



1. ICO DD-024
2. ICO DD-042
3. ICO DD-072
4. ICO DD-108



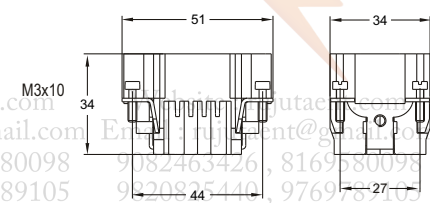
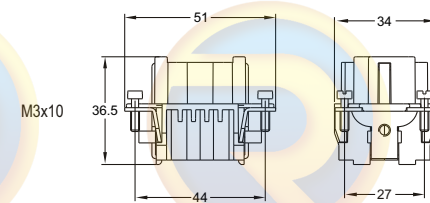

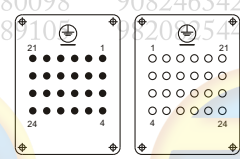
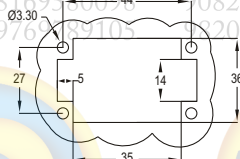
1. ICO DD-024
2. ICO DD-042
3. ICO DD-072
4. ICO DD-108

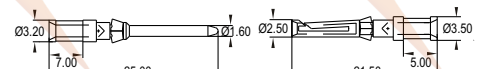

Number of Contact

24 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|--------|---|---|---------------|--------|
| Crimp Terminal | ICO DD |  |  | 0190 024 M021 | |
|  | | | | 0190 024 F021 | |
| | | <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for Insert without Housing/Hood</p>  | | |

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|---|--|--|------------------|---------------------------|-----------|---------|------|---------------------|--------|---------|------|----------------------|--------|---------|------|-------------------|--------|---------|------|---------------------|--------|---------|------|---------------------|--------|---------|------|---|--|--|
| Crimp Contacts |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver plated | | | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M04 0103 000 4M03 0103 000 4M05 0103 000 4M02 0103 000 4M01 0103 000 4M06 | 0103 000 4F04 0103 000 4F03 0103 000 4F05 0103 000 4F02 0103 000 4F01 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>AWG</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> <td>8 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> <td>8 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG 18</td> <td>1.30 mm</td> <td>8 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG 18</td> <td>1.45 mm</td> <td>8 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG 16</td> <td>1.75 mm</td> <td>8 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG 14</td> <td>2.25 mm</td> <td>6 mm</td> </tr> </tbody> </table> | Wire gauge | AWG | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm | 0.75 MM ² | AWG 18 | 1.30 mm | 8 mm | 1 MM ² | AWG 18 | 1.45 mm | 8 mm | 1.5 MM ² | AWG 16 | 1.75 mm | 8 mm | 2.5 MM ² | AWG 14 | 2.25 mm | 6 mm | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M14 0103 000 4M13 0103 000 4M15 0103 000 4M12 0103 000 4M11 0103 000 4M16 | 0103 000 4F14 0103 000 4F13 0103 000 4F15 0103 000 4F12 0103 000 4F11 0103 000 4F16 |
| Wire gauge | AWG | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG 18 | 1.30 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG 18 | 1.45 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG 16 | 1.75 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG 14 | 2.25 mm | 6 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


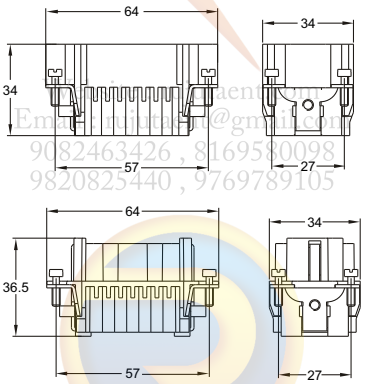
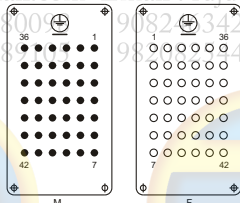
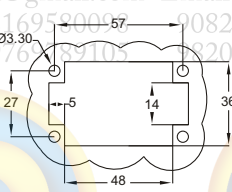
For crimping tool & contact removal tool Page No. 140


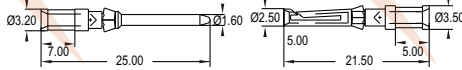


Number of Contact

42 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|--------|--|------------------|---------------|---------------|
| Crimp Terminal  | ICO DD |  | | 0190 042 M021 | |
| | | | | | 0190 042 F021 |
| | | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hoods</p>  | | | |

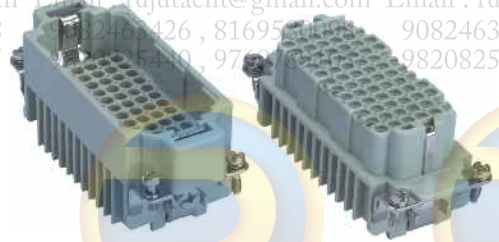
| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---------------------------|---------------|---------------|------------------|---------------------------|-----------|---------|------|---------------------|--------|---------|------|----------------------|-------|---------|------|-------------------|-------|---------|------|---------------------|-------|---------|------|---------------------|-------|---------|------|------|---------------|---------------|
| Crimp Contacts  |  | | 0.14/0.37 | 0103 000 4M04 | 0103 000 4F04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 4M03 | 0103 000 4F03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver plated |  | | 0.75 | 0103 000 4M05 | 0103 000 4F05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.00 | 0103 000 4M02 | 0103 000 4F02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.50 | 0103 000 4M01 | 0103 000 4F01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2.50 | 0103 000 4M06 | 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.14/0.37 | 0103 000 4M14 | 0103 000 4F14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 4M13 | 0103 000 4F13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th></th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> <td>8 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> <td>8 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG18</td> <td>1.30 mm</td> <td>8 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG18</td> <td>1.45 mm</td> <td>8 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG16</td> <td>1.75 mm</td> <td>8 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG14</td> <td>2.25 mm</td> <td>6 mm</td> </tr> </tbody> </table> | Wire gauge | | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm | 0.75 MM ² | AWG18 | 1.30 mm | 8 mm | 1 MM ² | AWG18 | 1.45 mm | 8 mm | 1.5 MM ² | AWG16 | 1.75 mm | 8 mm | 2.5 MM ² | AWG14 | 2.25 mm | 6 mm | 0.75 | 0103 000 4M15 | 0103 000 4F15 |
| | | | Wire gauge | | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG18 | 1.30 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG18 | 1.45 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG16 | 1.75 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG14 | 2.25 mm | 6 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0103 000 4M12 | 0103 000 4F12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.50 | 0103 000 4M11 | 0103 000 4F11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.50 | 0103 000 4M16 | 0103 000 4F16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140

Number of Contact

72 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|----------------|--------|--|------------------|---------------|---------------|
| Crimp Terminal | ICO DD | | | 0190 072 M021 | |
| | | | | | 0190 072 F021 |
| | | <p>Panel cut out for Insert without Housing/Hood</p> | | | |

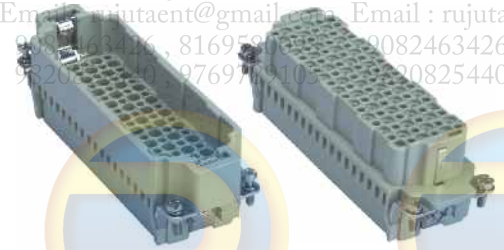
| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------|------------------|--------------------|---------------|---|------------|---|------------------|---------------------------|-----------|---------|------|---------------------|--------|---------|------|----------------------|-------|---------|------|-------------------|-------|---------|------|---------------------|-------|---------|------|---------------------|-------|---------|------|
| Crimp Contacts | | | 0.14/0.37 | 0103 000 4M04 | 0103 000 4F04 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 4M03 | 0103 000 4F03 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.75 | 0103 000 4M05 | 0103 000 4F05 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.00 | 0103 000 4M02 | 0103 000 4F02 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.50 | 0103 000 4M01 | 0103 000 4F01 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2.50 | 0103 000 4M06 | 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Gold plated | | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> <td>8 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> <td>8 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG18</td> <td>1.30 mm</td> <td>8 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG18</td> <td>1.45 mm</td> <td>8 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG16</td> <td>1.75 mm</td> <td>8 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG14</td> <td>2.25 mm</td> <td>6 mm</td> </tr> </tbody> </table> | Wire gauge | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm | 0.75 MM ² | AWG18 | 1.30 mm | 8 mm | 1 MM ² | AWG18 | 1.45 mm | 8 mm | 1.5 MM ² | AWG16 | 1.75 mm | 8 mm | 2.5 MM ² | AWG14 | 2.25 mm | 6 mm |
| Wire gauge | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | | | | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | | | | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG18 | 1.30 mm | | | | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG18 | 1.45 mm | | | | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG16 | 1.75 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG14 | 2.25 mm | 6 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.50 | 0103 000 4M13 | 0103 000 4F13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | 0103 000 4M15 | 0103 000 4F15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0103 000 4M12 | 0103 000 4F12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.50 | 0103 000 4M11 | 0103 000 4F11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.50 | 0103 000 4M16 | 0103 000 4F16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140

Number of Contact

108+

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|----------------|--------|---|------------------|---------------|---------------|
| Crimp Terminal | ICO DD | | | 0190 108 M021 | |
| | | | | | 0190 108 F021 |
| | | <p>Contact arrangement view from termination side</p> | | | |

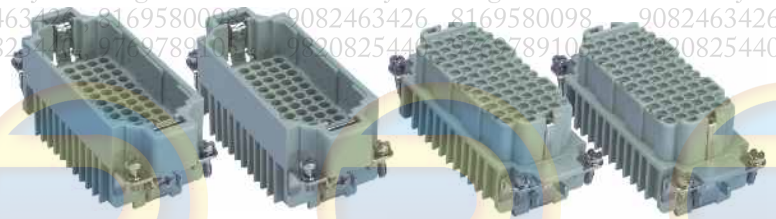
| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-----------|--|--------------------|---------------|---------------|------------------|---------------------------|-----------|---------|------|---------------------|--------|---------|------|----------------------|-------|---------|------|-------------------|-------|---------|------|---------------------|-------|---------|------|---------------------|-------|---------|------|-----------|---------------|---------------|
| Crimp Contacts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver plated | | | 0.14/0.37 | 0103 000 4M04 | 0103 000 4F04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 4M03 | 0103 000 4F03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.75 | 0103 000 4M05 | 0103 000 4F05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.00 | 0103 000 4M02 | 0103 000 4F02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.50 | 0103 000 4M01 | 0103 000 4F01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2.50 | 0103 000 4M06 | 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated | | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>AWG</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> <td>8 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> <td>8 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG18</td> <td>1.30 mm</td> <td>8 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG18</td> <td>1.45 mm</td> <td>8 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG16</td> <td>1.75 mm</td> <td>8 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG14</td> <td>2.25 mm</td> <td>6 mm</td> </tr> </tbody> </table> | Wire gauge | AWG | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm | 0.75 MM ² | AWG18 | 1.30 mm | 8 mm | 1 MM ² | AWG18 | 1.45 mm | 8 mm | 1.5 MM ² | AWG16 | 1.75 mm | 8 mm | 2.5 MM ² | AWG14 | 2.25 mm | 6 mm | 0.14/0.37 | 0103 000 4M14 | 0103 000 4F14 |
| Wire gauge | AWG | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG18 | 1.30 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG18 | 1.45 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG16 | 1.75 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG14 | 2.25 mm | 6 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 4M13 | 0103 000 4F13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.75 | 0103 000 4M15 | 0103 000 4F15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.00 | 0103 000 4M12 | 0103 000 4F12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.50 | 0103 000 4M11 | 0103 000 4F11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2.50 | 0103 000 4M16 | 0103 000 4F16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


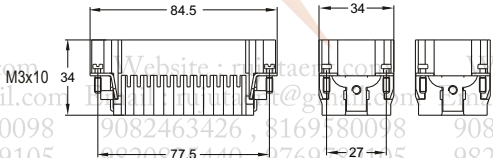
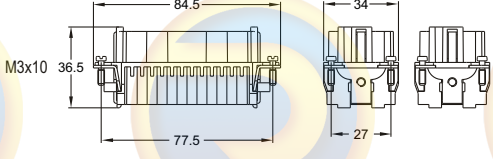

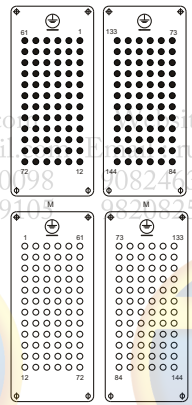
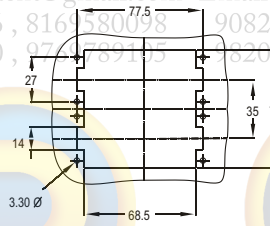
For crimping tool & contact removal tool Page No. 140

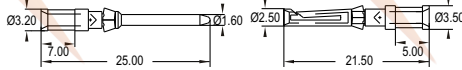

Number of Contact

144 (72x2) ± 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|--------|---|---|--------------------------------|--------|
|  | ICO DD |  |  | 0190 072 M021 0190 072 M121 | |
|  | | | | 0190 072 F021 0190 072 F121 | |
| | | <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | | | |


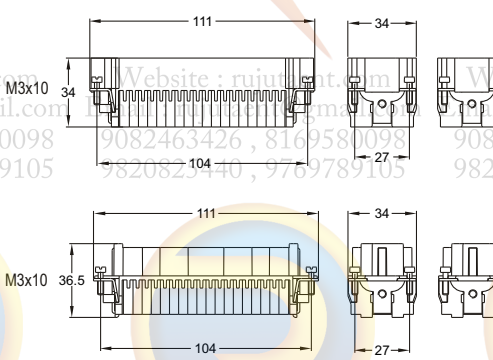
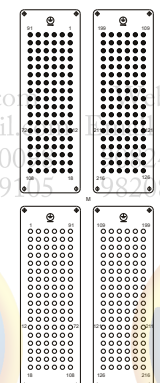
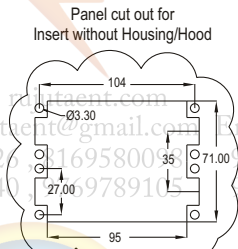
| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|--|--|---------------------------|-----------|---------|---------------------|--------|---------|----------------------|--------|---------|-------------------|--------|---------|---------------------|--------|---------|---------------------|--------|---------|---|--|--|
| Crimp Contacts |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver plated | | | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M04 0103 000 4M03 0103 000 4M05 0103 000 4M02 0103 000 4M01 0103 000 4M06 | 0103 000 4F04 0103 000 4F03 0103 000 4F05 0103 000 4F02 0103 000 4F01 0103 000 4F06 | | | | | | | | | | | | | | | | | | | | | |
| Gold plated |  | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG 18</td> <td>1.30 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG 18</td> <td>1.45 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG 16</td> <td>1.75 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG 14</td> <td>2.25 mm</td> </tr> </tbody> </table> | Wire gauge | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 0.75 MM ² | AWG 18 | 1.30 mm | 1 MM ² | AWG 18 | 1.45 mm | 1.5 MM ² | AWG 16 | 1.75 mm | 2.5 MM ² | AWG 14 | 2.25 mm | 0.14/0.37 0.50 0.75 1.00 1.50 2.50 | 0103 000 4M14 0103 000 4M13 0103 000 4M15 0103 000 4M12 0103 000 4M11 0103 000 4M16 | 0103 000 4F14 0103 000 4F13 0103 000 4F15 0103 000 4F12 0103 000 4F11 0103 000 4F16 |
| Wire gauge | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG 18 | 1.30 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG 18 | 1.45 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG 16 | 1.75 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG 14 | 2.25 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| For crimping tool & contact removal tool Page No. 140 | | | | | | | | | | | | | | | | | | | | | | | | | | |

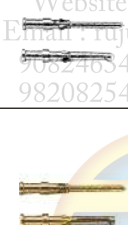
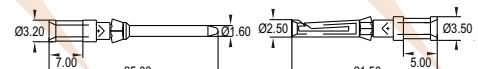

Number of Contact

216 (108x2) + 

Rating : 10 A-250 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|--------|---|--|--|--------|
| <p>Crimp Terminal</p>  | ICO DD |  <p>Contact arrangement view from termination side</p>  <p>Panel cut out for Insert without Housing/Hood</p>  | <p>0190 108 M021 0190 108 M121</p> | <p>0190 108 F021 0190 108 F121</p> | |

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|------------------|---------------------------|-----------|---------|------|---------------------|--------|---------|------|----------------------|--------|---------|------|-------------------|--------|---------|------|---------------------|--------|---------|------|---------------------|--------|---------|------|---|--|--|
| <p>Crimp Contacts</p>  <p>Silver plated</p> |  | <p>0.14/0.37 0.50 0.75 1.00 1.50 2.50</p> | <p>0103 000 4M04 0103 000 4M03 0103 000 4M05 0103 000 4M02 0103 000 4M01 0103 000 4M06</p> | <p>0103 000 4F04 0103 000 4F03 0103 000 4F05 0103 000 4F02 0103 000 4F01 0103 000 4F06</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Gold plated</p>  | <table border="1"> <thead> <tr> <th>Wire gauge</th> <th>AWG</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 MM²</td> <td>AWG 26-22</td> <td>0.90 mm</td> <td>8 mm</td> </tr> <tr> <td>0.5 MM²</td> <td>AWG 20</td> <td>1.10 mm</td> <td>8 mm</td> </tr> <tr> <td>0.75 MM²</td> <td>AWG 18</td> <td>1.30 mm</td> <td>8 mm</td> </tr> <tr> <td>1 MM²</td> <td>AWG 18</td> <td>1.45 mm</td> <td>8 mm</td> </tr> <tr> <td>1.5 MM²</td> <td>AWG 16</td> <td>1.75 mm</td> <td>8 mm</td> </tr> <tr> <td>2.5 MM²</td> <td>AWG 14</td> <td>2.25 mm</td> <td>6 mm</td> </tr> </tbody> </table> | Wire gauge | AWG | Ø | Stripping length | 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm | 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm | 0.75 MM ² | AWG 18 | 1.30 mm | 8 mm | 1 MM ² | AWG 18 | 1.45 mm | 8 mm | 1.5 MM ² | AWG 16 | 1.75 mm | 8 mm | 2.5 MM ² | AWG 14 | 2.25 mm | 6 mm | <p>0.14/0.37 0.50 0.75 1.00 1.50 2.50</p> | <p>0103 000 4M14 0103 000 4M13 0103 000 4M15 0103 000 4M12 0103 000 4M11 0103 000 4M16</p> | <p>0103 000 4F14 0103 000 4F13 0103 000 4F15 0103 000 4F12 0103 000 4F11 0103 000 4F16</p> |
| Wire gauge | AWG | Ø | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14-0.37 MM ² | AWG 26-22 | 0.90 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 MM ² | AWG 20 | 1.10 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 MM ² | AWG 18 | 1.30 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MM ² | AWG 18 | 1.45 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 MM ² | AWG 16 | 1.75 mm | 8 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 MM ² | AWG 14 | 2.25 mm | 6 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140



Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

TECHNICAL CHARACTERISTICS

Specifications

DIN EN 60 664
DIN EN 61 984

Inserts

| | |
|------------------------------------|--------------------|
| Number of contacts | 6,12+PE |
| Electrical data acc. to EN 61 984 | 35A 400/690V 6kV 3 |
| -Rated current | 35A |
| -Rated voltage conductor-ground | 400V |
| -Rated voltage conductor-conductor | 690V |
| -Rated impulse voltage | 6kV |
| -Pollution degree | 3 |
| -or | 35A 500V 6kV 3 |
| Rated voltage acc. to UL/CSA | 600V |

Insulation resistance

≥ 10¹⁰Ω

Material

polycarbonate

Limiting temperatures

-40°C... +125°C

Flammability acc. to UL 94

V0

Mechanical working life (mating cycles)

≥ 500

Contacts

Material

copper alloy

Surface

silver plated

Contact resistance

≤ 1mΩ

Screw terminal

-Wrie gauge

6mm²

-AWG

10

-Stripping Length

7.0 mm

-Tightening/Test torque

1.2Nm

Hoods / Housing

Material

Die-Cast aluminum

Surface

Powder Coated RAL 7037

Locking Element

Zinc plated / Thermoplastic

Temperature Range

-40°C... +125°C

Degree of Protection

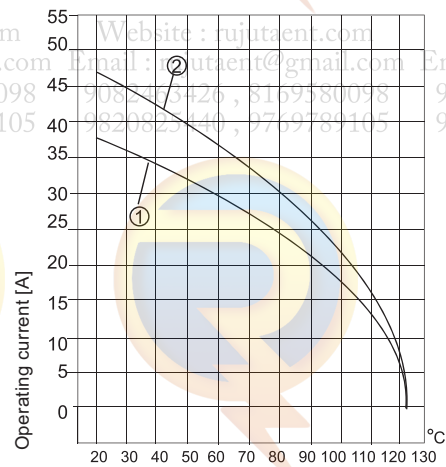
For Coupled Connector

IP65

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



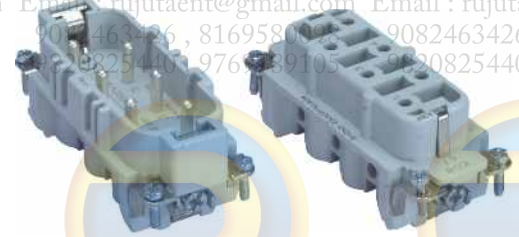
Ambient temperature [°C]



1. Wrie gauge: 4mm²
2. Wrie gauge: 6mm²

Number of Contact

6+ 

Rating : 35 A-690 V

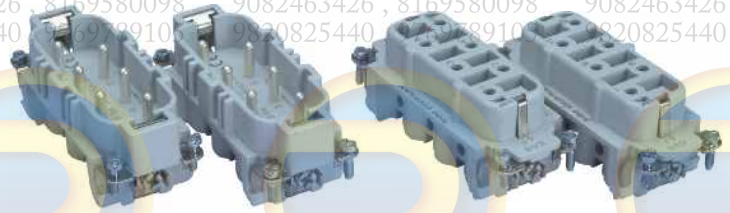



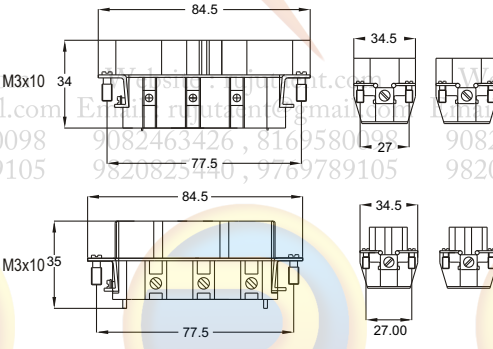
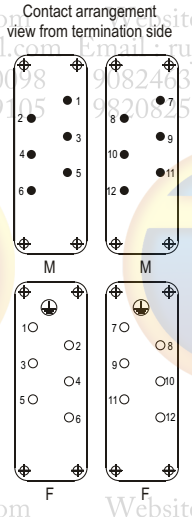
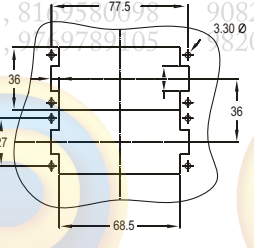
| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------------------|---|--|----------------------|----------------------|
| <p>Screw Terminal</p>   | <p>ICO B</p> | | | <p>0130.006.M011</p> | <p>0130.006.F011</p> |
| | | <p>Contact arrangement view from termination side</p> | <p>Panel cut out for Insert without Housing/Hood</p> | | |

Number of Contact

12 (6x2) + 

Rating : 35 A-690 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|---------------------|---|---|--|--|
| <p>Screw Terminal</p>  | <p>ICO B</p> |  | | <p>0130 006 M011 0130 006 M111</p> | <p>0130 006 F011 0130 006 F111</p> |
| | | <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for Insert without Housing/Hood</p>  | | |



Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105

TECHNICAL CHARACTERISTICS

Specifications

DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 4/0,4/2+PE

Electrical data acc. to EN 61 984

Power area 80A 830V 8kV 3

-Rated current 80A

-Rated voltage 830V

-Rated impulse voltage 8kV

-Pollution degree 3

-or- 80A 1000V 8kV 3

Signal area 16A 400V 6kV 3

-Rated current 16A

-Rated voltage 400V

-Rated impulse voltage 6kV

-Pollution degree 3

-Pollution degree 2 also 16A 400/690V 6kV 2

Rated voltage acc. to UL/CSA 600/300V

Insulation resistance $\geq 10^{10}\Omega$

Material polycarbonate

Limiting temperatures -40°C... +125°C

Flammability acc. to UL 94 V0

Mechanical working life (mating cycles) ≥ 500

Contacts

Power contacts

-Material copper alloy

-Surface silver plated

-Contact resistance $\leq 0.3m\Omega$

-Screw terminal

-Wire gauge 1.5-16mm²

-AWG 16-6

-Tightening torque

| | | | | | | |
|------------------|-----|-----|---|---|----|----|
| -mm ² | 1.5 | 2.5 | 4 | 6 | 10 | 16 |
| -N.m | 1.2 | 2 | 3 | 3 | 3 | 3 |

-Stripping length 14mm

Signal contacts

-Material copper alloy

-Surface silver plated

-Contact resistance $\leq 1m\Omega$

-Screw terminal

-Wire gauge 0.5-2.5mm²

-AWG 20-14

-Stripping length 7.5mm

-Tightening / Test torque 0.5Nm

Hoods / Housing

Material Die-Cast aluminum

Surface Powder Coated RAL 7037

Locking Element Zinc plated / Thermoplastic

Temperature Range -40°C... +125°C

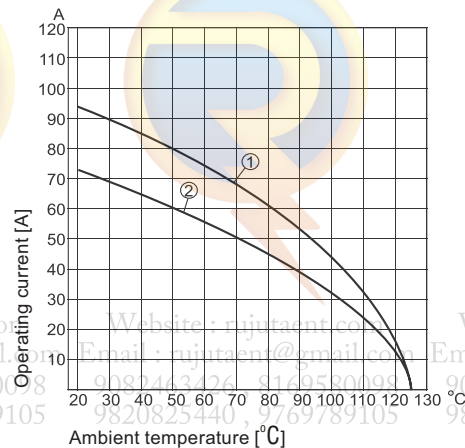
Degree of Protection

For Coupled Connector IP65

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5




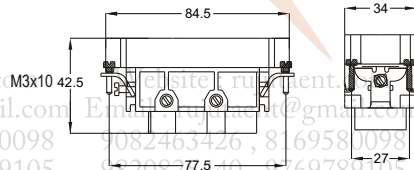
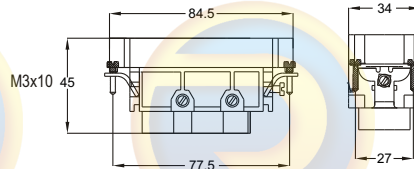
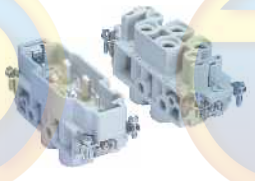
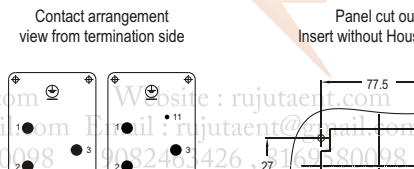
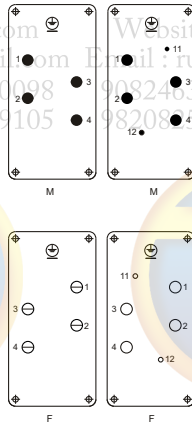
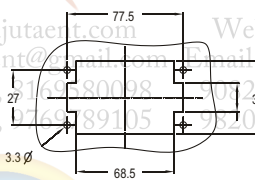
1. Wire gauge: 4mm²
2. Wire gauge: 6mm²

Number of Contact

4/0 & 4/2 + 

Rating : 80 A-830 V / 16 A-400 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|--------|---|---|---------------|---------------|
| <p>Screw Terminal</p>  | ICO E |  |  | 0160 006 M011 | 0160 006 F011 |
| <p>Screw Terminal</p>  | |  | | 0160 004 M011 | 0160 004 F011 |
| | | <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for Insert without Housing/Hood</p>  | | |

TECHNICAL CHARACTERISTICS

ICO E 4/8

Specifications DIN EN 60 664
DIN EN 61 984

Inserts

Number of contacts 4/8+PE

Electrical data acc. to EN 61 984

Power area 80A 400V 6kV 3

-Rated current 80A

-Rated voltage 400V

-Rated impulse voltage 6kV

-Pollution degree 3

-Pollution degree 2 also 80A 400/690V 6kV 2

Signal area 16A 400V 6kV 3

-Rated current 16A

-Rated voltage 400V

-Rated impulse voltage 6kV

-Pollution degree 3

Rated voltage acc. to UL/CSA 600/600V

Insulation resistance $\geq 10^{10}\Omega$

Material polycarbonate

Limiting temperatures -40°C... +125°C

Flammability acc. to UL 94 V0

Mechanical working life (mating cycles) ≥ 500

Contacts

Power contacts

-Material copper alloy

-Surface silver plated

-Contact resistance $\leq 0.3m\Omega$

-Screw terminal

-geometric wire gauge 1.5-16mm²

-AWG 16-6

-Tightening torque

| | | | | | | |
|------------------|-----|-----|---|---|----|----|
| -mm ² | 1.5 | 2.5 | 4 | 6 | 10 | 16 |
| -N.m | 1.2 | 2 | 3 | 3 | 3 | 3 |

| | | | | | | |
|------------------|-----|-----|---|---|----|----|
| -mm ² | 1.5 | 2.5 | 4 | 6 | 10 | 16 |
| -N.m | 1.2 | 2 | 3 | 3 | 3 | 3 |

-Stripping length 14mm

Signal contacts

-Material copper alloy

-Surface hard-silver plated

-Contact resistance $\leq 1m\Omega$

-Screw terminal

-mm² 0.5-2.5mm²

-AWG 20-14

-Tightening torque 0.5Nm

-Stripping length 7.5mm

Hoods / Housing

Material Die-Cast aluminum

Surface Powder Coated RAL 7037

Locking Element Zinc plated / Thermoplastic

Temperature Range -40°C... +125°C

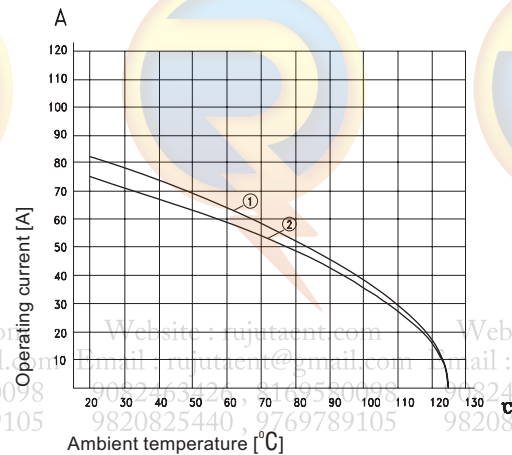
Degree of Protection

For Coupled Connector IP65

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5

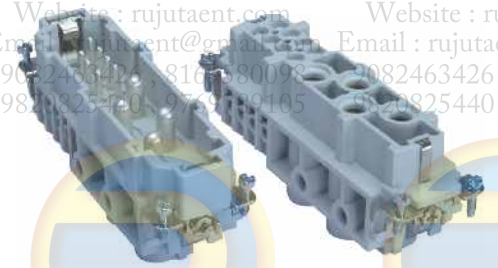




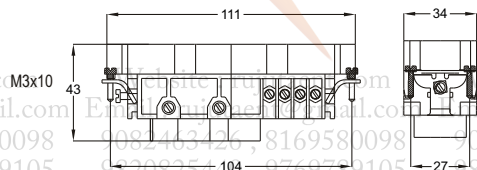
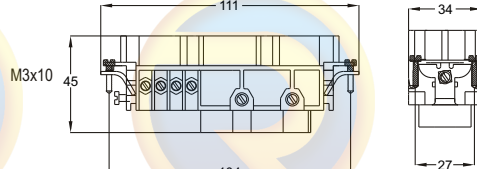
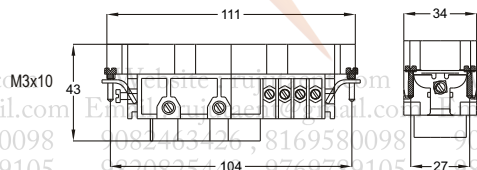
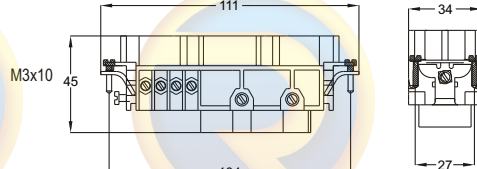
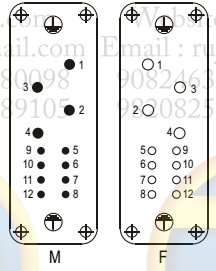
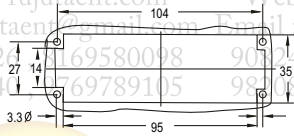
1. Wire gauge: 4mm²
2. Wire gauge: 6mm²

Number of Contact

4/8+ 

Rating : 80 A-830 V / 16 A-400 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|--|--------------|--|--|----------------------|----------------------|
| <p>Screw Terminal</p>   | <p>ICO E</p> |   |   | <p>0160 012 M011</p> | <p>0160 012 F011</p> |
| | | <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for Insert without Housing/Hood</p>  | | |

TECHNICAL CHARACTERISTICS

Specifications

DIN EN 60 664
DIN EN 61 984

Inserts

| | |
|------------------------------|--------------------|
| Number of contacts | 5 + PE |
| Electrical data acc. to | 16A 230/400V 4kV3 |
| -Rated current | 16A |
| -Rated voltage | 400V |
| -Rated impulse voltage | 4kV |
| -Pollution degree | 3 |
| -Pollution degree 2 also | 16A 320/500V 4kV 2 |
| Rated voltage acc. to UL/CSA | 600V |

Insulation resistance $\geq 10^9 \Omega$

Material polycarbonate
Limiting temperatures $-40^\circ\text{C} \dots +125^\circ\text{C}$
Flammability acc. to UL 94 V0

Mechanical working life (mating cycles) ≥ 500

Contacts

Material copper alloy
Surface terminal gold plated
silver plated

Contact resistance $\leq 1\text{m}\Omega$

Crimp terminal
-Wrie gauge 0.14-2.5mm²
-AWG 26-14

-Stripping length 7.0mm

Hoods / Housing
Material Die-Cast aluminum / Polyamide
Surface Powder Coated RAL 7037

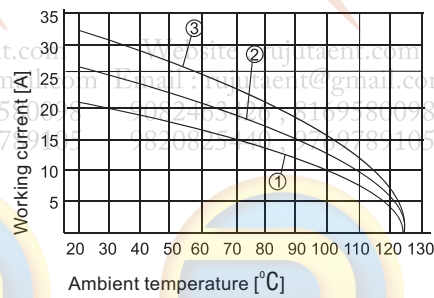
Locking Element Zinc plated / Thermoplastic
Temperature Range $-40^\circ\text{C} \dots +125^\circ\text{C}$

Degree of Protection
For Coupled Connector IP44

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5





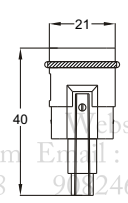

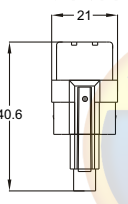
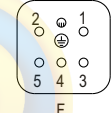
ICO AQ
1. 1mm²
2. 1.5mm²
3. 2.5mm²

Number of Contact


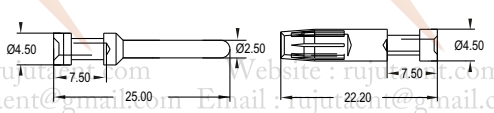

5+ 

Rating: 16 A-230 / 400 V



| Identification | Series | Drawing | Dimension in mm. | Male | Female |
|---|--------|---|---|---------------|--------|
| Crimp Terminal   | ICO AQ |   |   | 0170 005 M011 | |
| | | | | | |

Crimp Contacts

| Identification | Drawing | Dimension in mm. | (mm ²) | Male | Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------|---------------------------|------------------|---------------|---------------------------|-----------|--------|-----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|----------|----------------------|--------|--------|-------------|----------------------|--------|--------|-----------|----------------------|--------|--------|--|-----------|---------------|---------------|
| Silver plated  |  | | 0.14-0.37 | 0103 000 5M04 | 0103 000 5F04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.50 | 0103 000 5M03 | 0103 000 5F03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.75 | 0103 000 5M05 | 0103 000 5F05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.00 | 0103 000 5M02 | 0103 000 5F02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1.50 | 0103 000 5M01 | 0103 000 5F01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2.50 | 0103 000 5M06 | 0103 000 5F06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3.00 | 0103 000 5M07 | 0103 000 5F07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 4.00 | 0103 000 5M08 | 0103 000 5F08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gold plated  | <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>No Groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>0.50 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Groove</td> <td>1.00 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 Groove</td> <td>1.50 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 Groove</td> <td>2.50 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>Wide Groove</td> <td>3.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>No Groove</td> <td>4.00 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> | Identification | Wire gauge | Stripping length | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | 0.14-0.37 | 0103 000 5M14 | 0103 000 5F14 |
| | | Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.14-0.37 mm ² | AWG 26-22 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No Groove | 0.50 mm ² | AWG 20 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 0.75 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 Groove | 1.00 mm ² | AWG 18 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 Groove | 1.50 mm ² | AWG 16 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 Groove | 2.50 mm ² | AWG 14 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Groove | 3.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No Groove | 4.00 mm ² | AWG 12 | 7.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.50 | 0103 000 5M13 | 0103 000 5F13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | 0103 000 5M15 | 0103 000 5F15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0103 000 5M12 | 0103 000 5F12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.50 | 0103 000 5M11 | 0103 000 5F11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.50 | 0103 000 5M16 | 0103 000 5F16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 0103 000 5M17 | 0103 000 5F17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 0103 000 5M18 | 0103 000 5F18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For crimping tool & contact removal tool Page No. 140

| | | | |
|--|-----------------------|---------------------------|---------|
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 3A | Standard Hoods & Housings | 70-72 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 3A HPR | HPR Hoods & Housings | 73 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 10A | Standard Hoods & Housings | 74-76 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 16A | Standard Hoods & Housings | 77-78 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 24A | Standard Hoods & Housings | 79-80 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 32A | Standard Hoods & Housings | 81-84 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 48A | Standard Hoods & Housings | 85-88 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 72A | Standard Hoods & Housings | 89 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 6B | Standard Hoods & Housings | 90-95 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 6B HPR | HPR Hoods & Housings | 96 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 8B | Standard Hoods & Housings | 97-100 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 10B | Standard Hoods & Housings | 101-109 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 10B HPR | HPR Hoods & Housings | 110 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 16B | Standard Hoods & Housings | 111-119 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 16B HPR | HPR Hoods & Housings | 120 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 24B | Standard Hoods & Housings | 121-129 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 24B HPR | HPR Hoods & Housings | 130 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 32B | Standard Hoods & Housings | 131-133 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 32(16X2)B | Standard Hoods & Housings | 134-136 |
| Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105 | SIZE 48B | Standard Hoods & Housings | 137-138 |

TECHNICAL CHARACTERISTICS

SIZE 3A

| Plastic Hoods & Housings IP44 (Plastic Lever) | |
|--|------------------------|
| Material | Polyamide |
| Colour | White |
| Locking Lever | Single Clamp (Plastic) |
| -Material | Polyamide |
| Hoods/ Housing seal | NBR |
| Limiting temperatures | -40...+125 °C |
| Degree of protection acc.to DIN EN | |
| 60 529 for coupled connector | IP44 |

| Metal Hoods & Housings IP44 (Metal Lever) | |
|--|----------------------|
| Material | Aluminium die -cast |
| Colour | Grey RAL 7037 |
| Surface Finish | Epoxy powder coating |
| Locking Lever | Single Clamp (Metal) |
| Surface Finish | Nickel Plating |
| Hoods/ Housing seal | NBR |
| Limiting temperatures | -40...+125 °C |
| Degree of protection acc.to DIN EN | |
| 60 529 for coupled connector | IP44 |


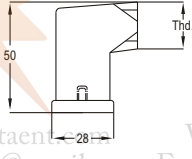

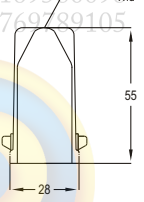

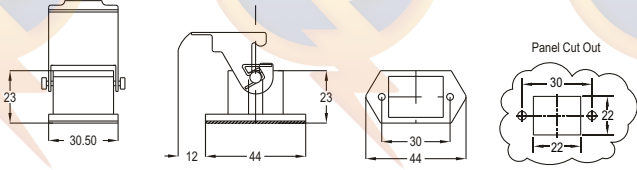

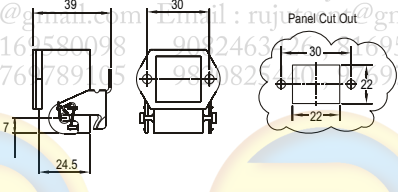

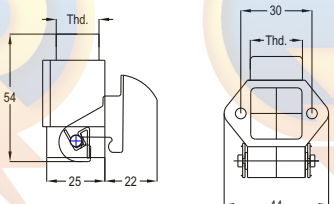

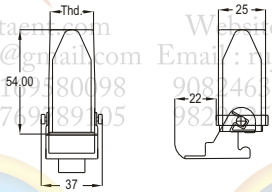

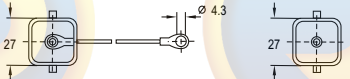
SIZE 3A HPR

| HPR Pressure tight Hoods /Housings for I IP68 | |
|--|----------------------|
| Material | Aluminium die -cast |
| Colour | Black |
| Surface | Epoxy powder coating |
| Locking | screw looking |
| Surface Finish | stainless steel |
| Hoods/ Housing seal | NBR |
| Limiting temperatures | -40...+125 °C |
| Degree of protection acc.to DIN EN | |
| 60 529 for coupled connector | IP68 |


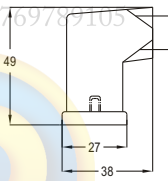

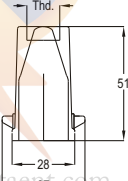

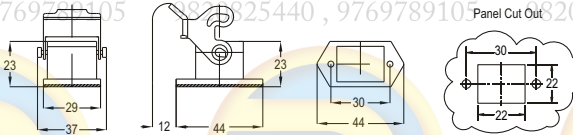

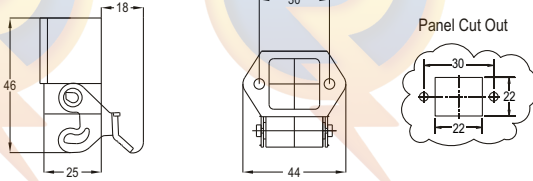

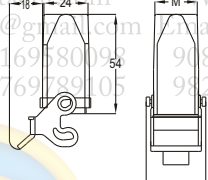

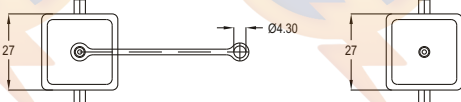
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No. of Pin | Page No. |
|-----------------------|------------------|----------------|------------|----------|
| ICO C | Screw Terminal | 10 A-250/400 V | 3+ | 31 |
| ICO C | Screw Terminal | 16A 500V | 4+ | 31 |
| ICOD | Crimp Terminal | 16A 500V | 7+ | 41 |
| ICOD | Crimp Terminal | 16A 500V | 8+ | 41 |
| ICOAQ | Crimp Terminal | 10 A-250V | 5+ | 67 |

(Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|------------------|------------------------------|--|
| Hood Side Entry  |  | | M16 M20 PG11 PG13.5 | 1192 003 BC38 1192 003 BC30 0192 003 BC34 0192 003 BC33 |
| Hood Top Entry  |  | | M16 M20 PG11 PG13.5 | 1192 003 BD38 1192 003 BD30 0192 003 BD34 0192 003 BD33 |
| Housing Bulkhead Mounting  |  | | | 0192 003 PM43 |
| Housing Bulkhead Mounting Right Angle  |  | | | 0192 003 PM49 |
| Housing Surface Mounting  |  | | M16 M20 PG11 PG13.5 | 1192 003 BE28 1192 003 BE20 0192 003 BE24 0192 003 BE23 |
| Hood Cable to Cable  |  | | M16 M20 PG11 PG13.5 | 1192 003 BM38 1192 003 BM30 0192 003 BM34 0192 003 BM33 |
| Protection Cover for Housing Thermoplastic  |  | | | 0192 003 P020 |


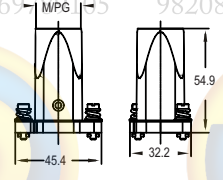

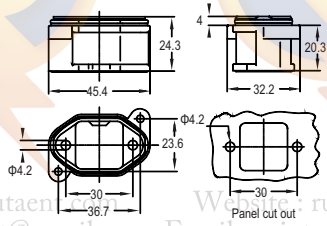

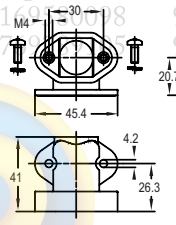

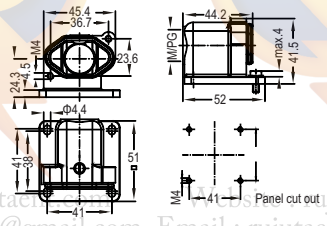

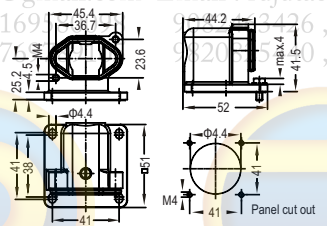
Standard Hoods / Housings (Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|---|-------------|--------------------------------|
| <p>Hood Side Entry</p>  |  | <p>49 27 38 Thd.</p> | M20 PG11 | 1194 003 BC30 0194 003 BC34 |
| <p>Hood Top Entry</p>  |  | <p>51 28 37 Thd.</p> | M20 PG11 | 1194 003 BD30 0194 003 BD34 |
| <p>Housing Bulkhead Mounting</p>  |  | <p>23 29 37 12 44 30 44 Panel Cut Out</p> | | 0194 003 PM43 |
| <p>Housing Bulkhead Mounting Right Angle</p>  |  | <p>18 46 25 30 44 Panel Cut Out</p> | | 0194 003 PM49 |
| <p>Hood Cable to Cable</p>  |  | <p>18 24 54 37 M</p> | M20 PG11 | 1194 003 BM30 0194 003 BM34 |
| <p>Protection Cover for Housing Thermoplastic</p>  |  | <p>27 27 Ø4.30</p> | | 0194 003 P020 |

SIZE 3A HPR

indoelectricals.com

Standard Hoods / Housings (Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|--|-----------------------|---|
| <p>Hood Top Entry</p>  |  | 9082463426, 8169580098, 9820825440, 9769789105 | M20 PG11 PG13.5 | 1171 003 BD30 0171 003 BD34 0171 003 BD33 |
| <p>Housing Bulkhead Mounting</p>  |  | 9082463426, 8169580098, 9820825440, 9769789105 | | 0171 003 PM53 |
| <p>Adaptor for Housings</p>  |  | 9082463426, 8169580098, 9820825440, 9769789105 | | 0171 003 PM57 |
| <p>Housing Surface Mounting</p>  |  | 9082463426, 8169580098, 9820825440, 9769789105 | M20 PG11 PG13.5 | 1171 003 BE80 0171 003 BE84 0171 003 BE83 |
| <p>Housing Bulkhead Mounting Right Angle</p>  |  | 9082463426, 8169580098, 9820825440, 9769789105 | | 0171 003 PM49 |

TECHNICAL CHARACTERISTICS

SIZE 10A TO 72A


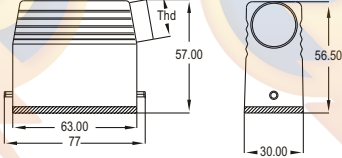

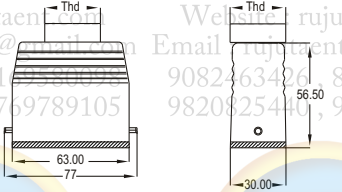

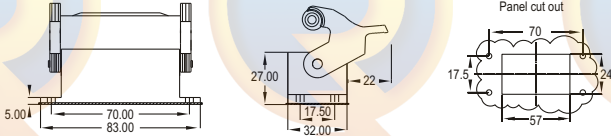

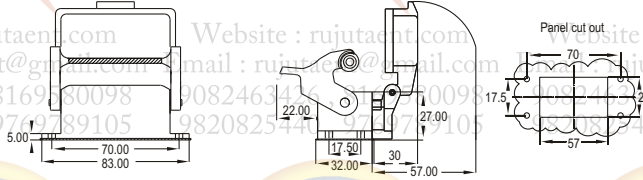

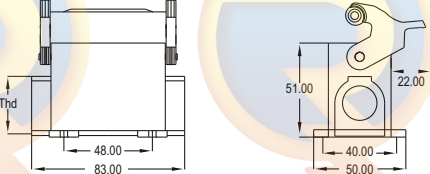

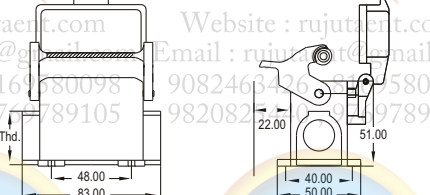
| Metal Hoods & Housings IP65 (Plastic Lever) | |
|--|-----------------------------------|
| Material | Aluminium die -cast |
| Colour | Grey RAL 7037 |
| Surface Finish | Epoxy powder coating |
| Locking Lever | Single Clamp (Plastic) |
| Material | Polycarbonate with metal insert |
| Hoods/ Housing seal | NBR |
| Limiting temperatures | -40...+125 °C |
| Degree of protection acc.to DIN EN | 60 529 for coupled connector IP65 |

| Metal Hoods & Housings IP65 (Metal Lever) | |
|--|-----------------------------------|
| Material | Aluminium die -cast |
| Colour | Grey RAL 7037 |
| Surface Finish | Epoxy powder coating |
| Locking Lever | Single Clamp (Metal) |
| Surface Finish | Zink blue plating |
| Hoods/ Housing seal | NBR |
| Limiting temperatures | -40...+125 °C |
| Degree of protection acc.to DIN EN | 60 529 for coupled connector IP65 |


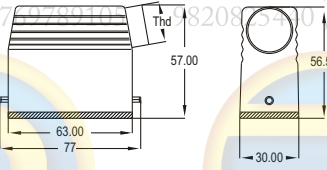

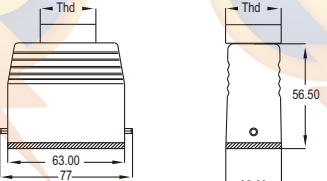

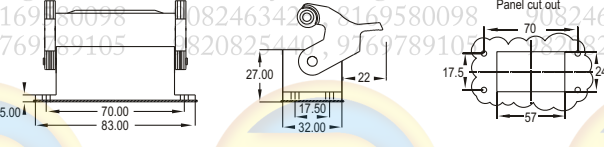

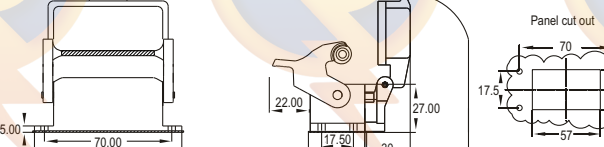

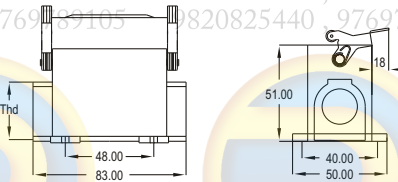

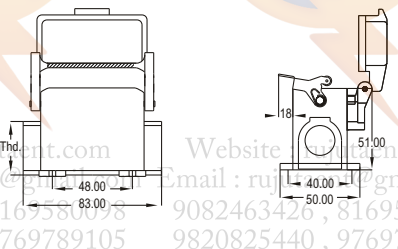
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No of Pin | Page No. |
|-----------------------|------------------|----------|-----------|----------|
| ICO CA 98 | Screw Terminal | 16 A-250 | 10+⊕ | 32 |
| ICO D 105 | Screw Terminal | 16A-250V | 15+⊕ | 42 |

(Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|------------------|--|--|
| Hood Side Entry  |  | | M20 M25 PG16 | 1192 010 BC30 1192 010 BC31 0192 010 BC32 |
| Hood Top Entry  |  | | M20 M25 PG16 | 1192 010 BD30 1192 010 BD31 0192 010 BD32 |
| Housing Bulkhead Mounting  |  | | | 0192 010 PM43 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  | | | 0192 010 PM44 |
| Housing Surface Mounting  |  | | M20 M25 PG16 M20 M25 PG16 | 1 Side Entry 1192 010 BE20 1192 010 BE21 0192 010 BE22 2 Side Entry 1192 010 BF20 1192 010 BF21 0192 010 BF22 |
| Housing Surface Mounting With Thermoplastic Cover  |  | | M20 M25 PG16 M20 M25 PG16 | 1 Side Entry 1192 010 BE00 1192 010 BE01 0192 010 BE02 2 Side Entry 1192 010 BF00 1192 010 BF01 0192 010 BF02 |


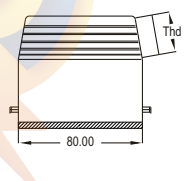
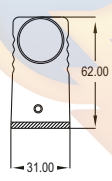

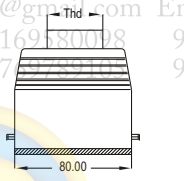
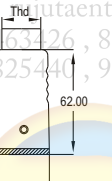

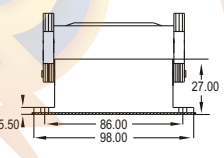
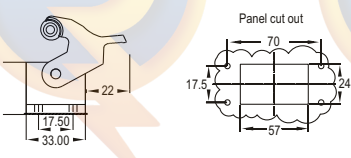

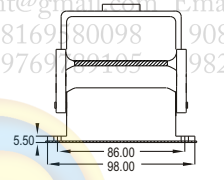
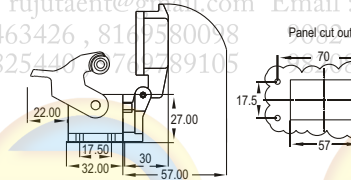

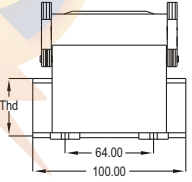
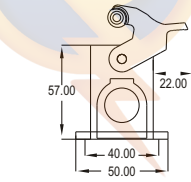

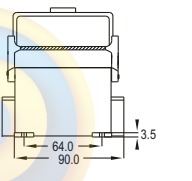
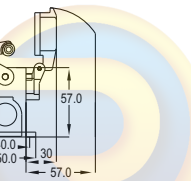
Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|------------------|-----------------------------|--|
| <p>Hood Side Entry</p>  |  | | <p>M20 M25 PG16</p> | <p>1192 010 BC80 1192 010 BC81 0192 010 BC82</p> |
| <p>Hood Top Entry</p>  |  | | <p>M20 M25 PG16</p> | <p>1192 010 BD80 1192 010 BD81 0192 010 BD82</p> |
| <p>Housing Bulkhead Mounting</p>  |  | | | <p>0192 010 PM52</p> |
| <p>Housing Bulkhead Mounting With Thermoplastic Cover</p>  |  | | | <p>0192 010 PM55</p> |
| <p>Housing Surface Mounting</p>  |  | | <p>M20 M25 PG16</p> | <p>1 Side Entry 1192 010 BE90 1192 010 BE91 0192 010 BE92 2 Side Entry 1192 010 BF90 1192 010 BF91 0192 010 BF92</p> |
| <p>Housing Surface Mounting With Thermoplastic Cover</p>  |  | | <p>M20 M25 PG16</p> | <p>1 Side Entry 1192 010 BE30 1192 010 BE31 0192 010 BE32 2 Side Entry 1192 010 BF30 1192 010 BF31 0192 010 BF32</p> |


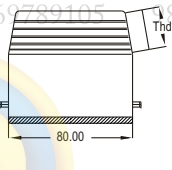
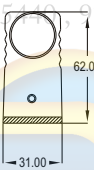


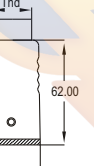

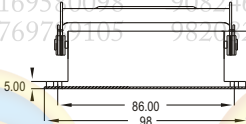
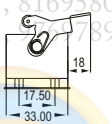
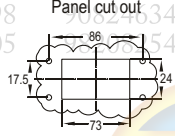

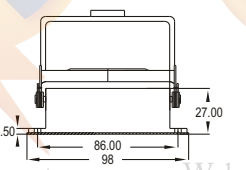
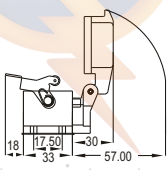
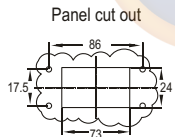

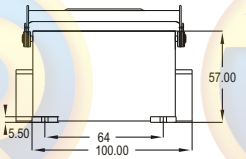
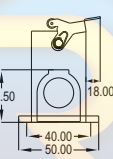

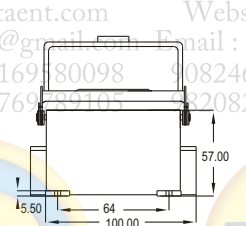

Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No of. Pin | Page No. |
|-----------------------|------------------|----------|------------|----------|
| ICO CA | Screw Terminal | 16 A-250 | 16+⊕ | 33 |
| ICO D | Screw Terminal | 16A-250V | 25+⊕ | 43 |

(Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|--|----------------------------|--|
| Hood Side Entry  |  |  | M25 M32 PG16 PG21 | 1192 016 BC31 1192 016 BC32 0192 016 BC32 0192 016 BC30 |
| Hood Top Entry  |  |  | M25 M32 PG16 PG21 | 1192 016 BD31 1192 016 BD32 0192 016 BD32 0192 016 BD30 |
| Housing Bulkhead Mounting  |  |  | | 0192 016 PM43 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  |  | | 0192 016 PM44 |
| Housing Surface Mounting  |  |  | M25 PG16 PG21 | 1 Side Entry 1192 016 BE21 0192 016 BE22 0192 016 BE20 2 Side Entry 1192 016 BF21 0192 016 BF22 0192 016 BF20 |
| Housing Surface Mounting With Thermoplastic Cover  |  |  | M25 PG16 PG21 | 1 Side Entry 1192 016 BE01 0192 016 BE02 0192 016 BE00 2 Side Entry 1192 016 BF01 0192 016 BF02 0192 016 BF00 |


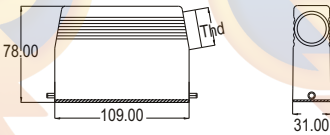


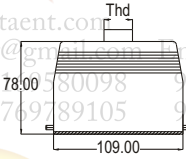


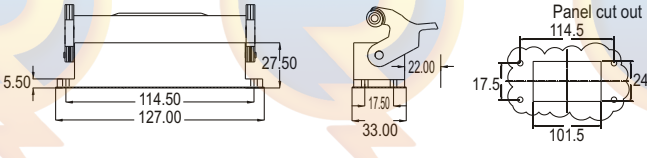
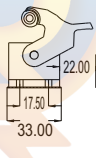

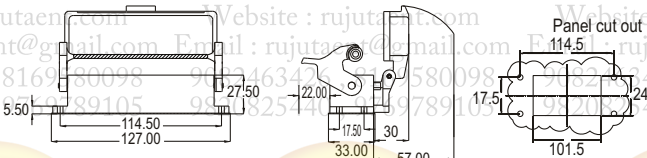
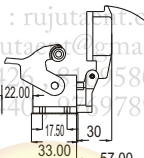

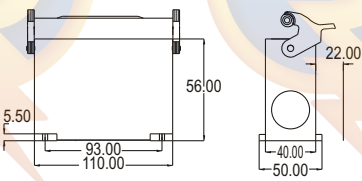
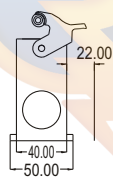

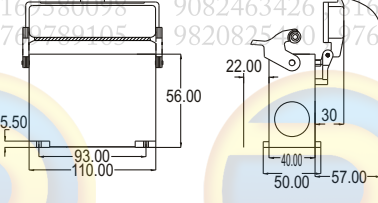
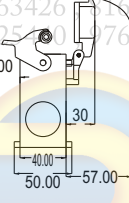
Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|---|---|--|
| Hood Side Entry  |  |  | M25 M32 PG16 PG21 | 9082463426, 8169580098 1192 016 BC81 1192 016 BC82 0192 016 BC82 0192 016 BC80 |
| Hood Top Entry  |  |  | M25 M32 PG16 PG21 | 1192 016 BD81 1192 016 BD82 0192 016 BD82 0192 016 BD80 |
| Housing Bulkhead Mounting  |  |  | Panel cut out  | 0192 016 PM52 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  |  | Panel cut out  | 0192 016 PM55 |
| Housing Surface Mounting  |  |  | M25 PG16 PG21 | 1 Side Entry 1192 016 BE91 0192 016 BE92 0192 016 BE90 2 Side Entry 1192 016 BF91 0192 016 BF92 0192 016 BF90 |
| Housing Surface Mounting With Thermoplastic Cover  |  |  | M25 PG16 PG21 | 1 Side Entry 1192 016 BE31 0192 016 BE32 0192 016 BE30 2 Side Entry 1192 016 BF31 0192 016 BF32 0192 016 BF30 |


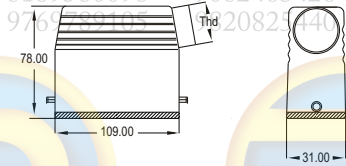

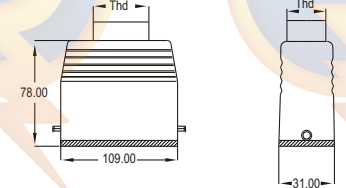

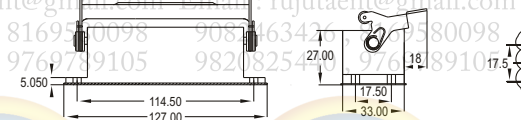

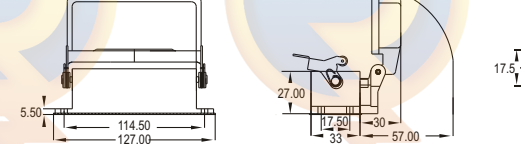

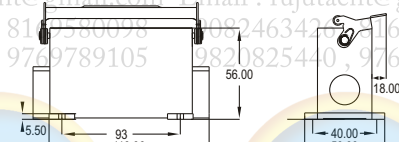

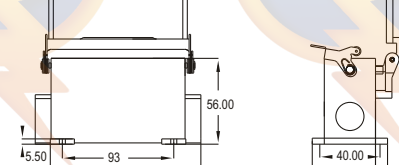
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No. of. Pin | Page No. |
|-----------------------|------------------|-----------|-------------|----------|
| ICO CA 098 | Screw Terminal | 16A- 250V | 24+ ⊕ | 34 |

(Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|---|---|---|
| <p>Hood Side Entry</p>  |  |  | <p>M32 PG21</p> | <p>1192 024 BC32 0192 024 BC30</p> |
| <p>Hood Top Entry</p>  |  |  | <p>M32 PG21</p> | <p>1192 024 BD32 0192 024 BD30</p> |
| <p>Housing Bulkhead Mounting</p>  |  |  | | <p>0192 024 PM43</p> |
| <p>Housing Bulkhead Mounting With Thermoplastic Cover</p>  |  |  | | <p>0192 024 PM44</p> |
| <p>Housings Surface Mounting</p>  |  |  | <p>M32 PG21</p> <p>M32 PG21</p> | <p>1 Side Entry 1192 024 BE22 0192 024 BE20</p> <p>2 Side Entry 1192 024 BF22 0192 024 BF20</p> |
| <p>Housings Surface Mounting With Thermoplastic Cover</p>  |  |  | <p>M32 PG21</p> <p>M32 PG21</p> | <p>1 Side Entry 1192 024 BE02 0192 024 BE00</p> <p>2 Side Entry 1192 024 BF02 0192 024 BF00</p> |


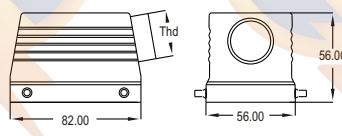
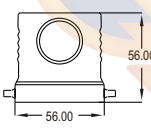

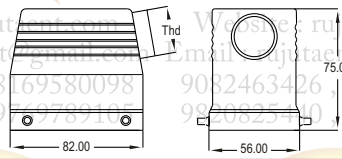
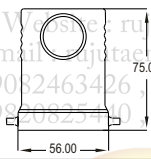

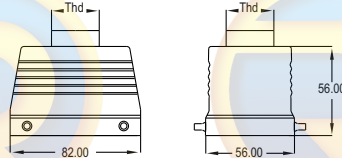
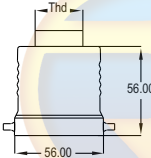

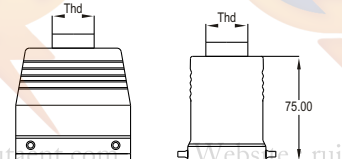
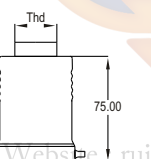

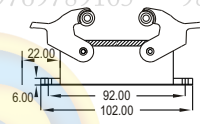
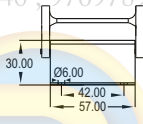

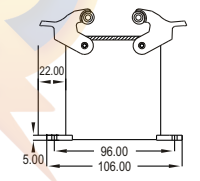
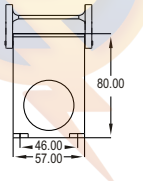
Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|---|--------------------------------|--|
| Hood Side Entry  |  | 78.00 109.00 31.00 | M32 PG21 | 1192 024 BC82 0192 024 BC80 |
| Hood Top Entry  |  | 78.00 109.00 31.00 | M32 PG21 | 1192 024 BD82 0192 024 BD80 |
| Housing Bulkhead Mounting  |  | 5.050 114.50 127.00 27.00 18 17.50 33.00 86 73 | | 0192 024 PM52440, 976978 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  | 5.50 114.50 127.00 27.00 18 17.50 33 57.00 86 73 | | 0192 024 PM55 |
| Housings Surface Mounting  |  | 5.50 93 110.00 56.00 18.00 40.00 50.00 | M32 PG21 M32 PG21 | 1 Side Entry 1192 024 BE92 0192 024 BE90 2 Side Entry 1192 024 BF92 0192 024 BF90 |
| Housings Surface Mounting With Thermoplastic Cover  |  | 5.50 93 110.00 56.00 40.00 50.00 | M32 PG21 M32 PG21 | 1 Side Entry 1192 024 BE32 0192 024 BE30 2 Side Entry 1192 024 BF32 0192 024 BF30 |


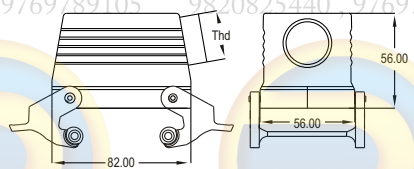

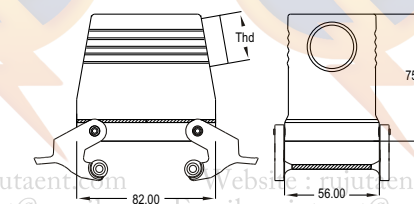

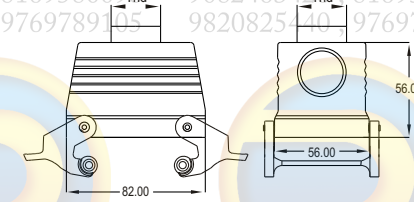

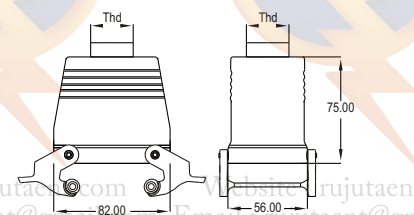

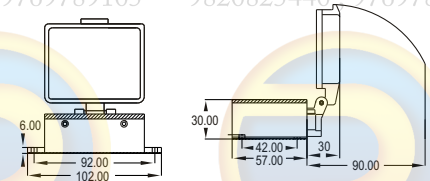
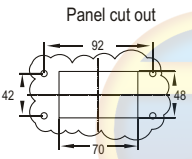

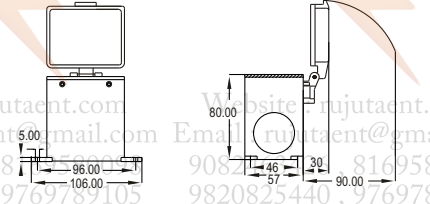
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No. of Pin | Page No. |
|-----------------------|------------------|----------|------------|----------|
| ICO CA | Screw Terminal | 16 A-250 | 32 (16x2)+ | 35 |
| ICO D | Crimp Terminal | 10A-250V | 50 (25x2)+ | 45 |


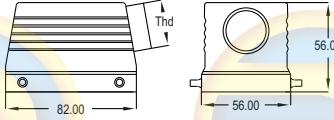

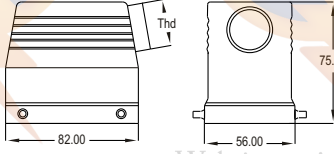

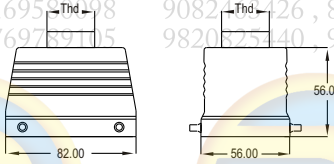

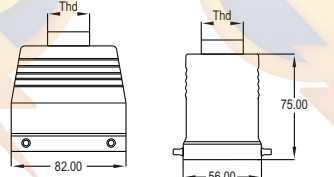

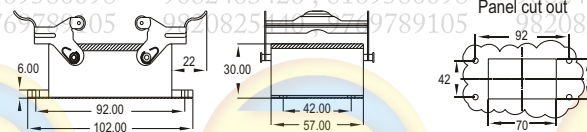

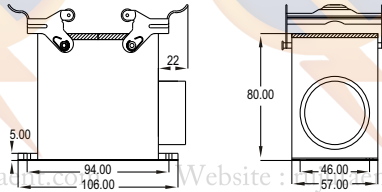
(Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|----------------------------|--|
| Hood Side Entry  |  |  | M32 PG21 | 1192 032 BC12 0192 032 BC10 |
| Hood Side Entry HC  |  |  | M40 PG29 | 1192 032 AC13 0192 032 AC11 |
| Hood Top Entry  |  |  | M32 PG21 | 1192 032 BD12 0192 032 BD10 |
| Hood Top Entry HC  |  |  | M40 PG29 | 1192 032 AD13 0192 032 AD11 |
| Housing Bulkhead Mounting  |  |  | | 0192 032 PM40 |
| Housing Surface Mounting  |  |  | M32 M40 PG21 PG29 | 1 Side Entry 1192 032 BE12 1192 032 BE13 0192 032 BE10 0192 032 BE11 2 Side Entry 1192 032 BF12 1192 032 BF13 0192 032 BF10 0192 032 BF11 |


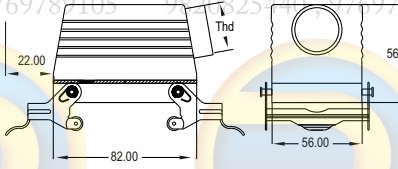
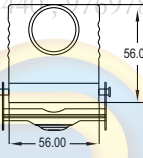

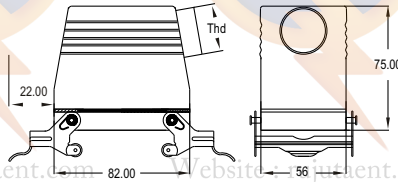
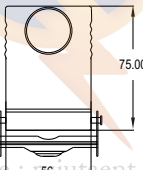

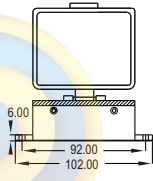
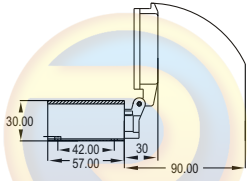
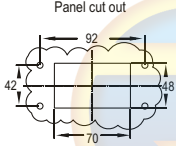

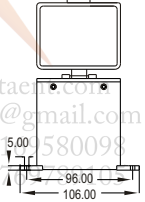
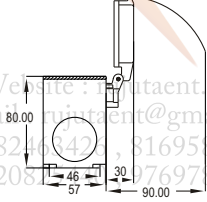
Standard Hoods / Housings (Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|--|---|--|
| <p>Hood Side Entry with Clamp</p>  |  | <p>82.00 56.00</p> | <p>M32 PG21</p> | <p>1192 032 BC22 0192 032 BC20</p> |
| <p>Hood Side Entry HC with Clamp</p>  |  | <p>82.00 75.00 56.00</p> | <p>M40 PG29</p> | <p>1192 032 AC23 0192 032 AC21</p> |
| <p>Hood Top Entry with Clamp</p>  |  | <p>82.00 56.00</p> | <p>M32 PG21</p> | <p>1192 032 BD22 0192 032 BD20</p> |
| <p>Hood Top Entry HC with Clamp</p>  |  | <p>82.00 75.00 56.00</p> | <p>M40 PG29</p> | <p>1192 032 AD23 0192 032 AD21</p> |
| <p>Housing Bulkhead Mounting With Thermoplastic Cover</p>  |  | <p>6.00 92.00 102.00 30.00 42.00 57.00 90.00</p> | <p>Panel cut out</p>  | <p>0192 032 PM45</p> |
| <p>Housing Surface Mounting With Thermoplastic Cover</p>  |  | <p>5.00 96.00 106.00 80.00 46 57 90.00</p> | <p>M32 M40 PG21 PG29</p> | <p>1 Side Entry 1192 032 BE42 1192 032 BE43 0192 032 BE40 0192 032 BE41 2 Side Entry 1192 032 BF42 1192 032 BF43 0192 032 BF40 0192 032 BF41</p> |

Standard Hoods / Housings (Metal Double Lever)

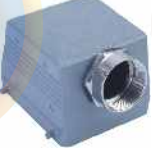
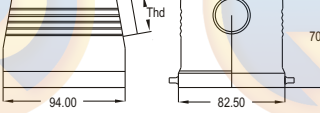



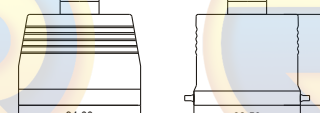

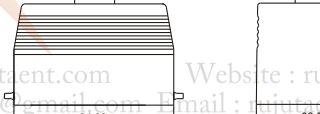

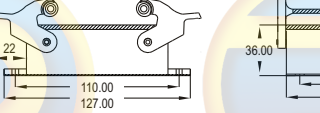
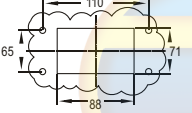

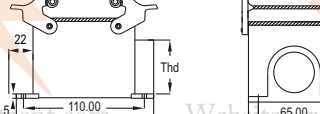

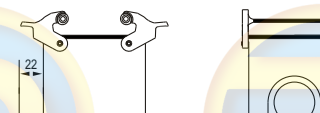
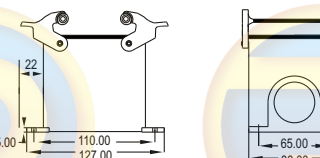
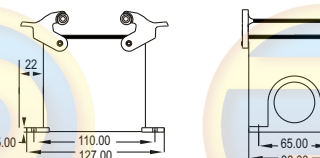
| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|--|--|--|
| Hood Side Entry  |  | 82.00 56.00 Thd | M32 PG21 | 1192 032 BC92 0192 032 BC90 |
| Hood Side Entry HC  |  | 82.00 56.00 75.00 Thd | M40 PG29 | 1192 032 AC93 0192 032 AC91 |
| Hood Top Entry  |  | 82.00 56.00 Thd | M32 PG21 | 1192 032 BD92 0192 032 BD90 |
| Hood Top Entry HC  |  | 82.00 56.00 75.00 Thd | M40 PG29 | 1192 032 AD93 0192 032 AD91 |
| Housing Bulkhead Mounting  |  | 6.00 22 30.00 92.00 102.00 42.00 57.00 92 48 70 | | 0192 032 PM54 |
| Housing Surface Mounting  |  | 5.00 94.00 106.00 80.00 46.00 57.00 | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1192 032 BE62 1192 032 BE63 0192 032 BE60 0192 032 BE61 2 Side Entry 1192 032 BF62 1192 032 BF63 0192 032 BF60 0192 032 BF61 |

Standard Hoods / Housings (Metal Double Lever)


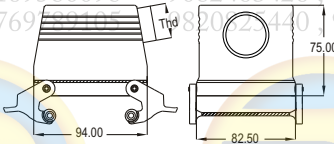

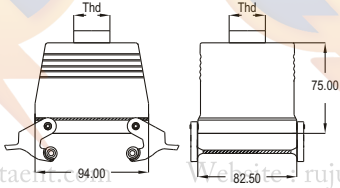

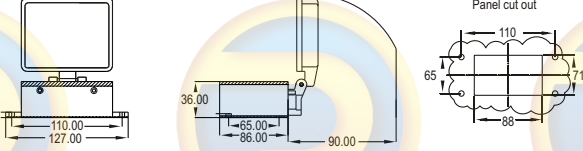

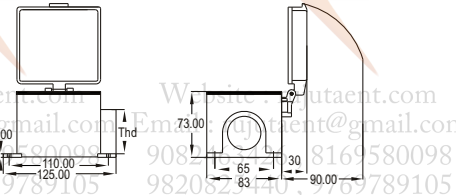

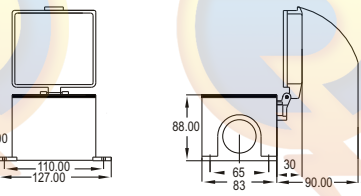
| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|---|--|
| Hoods Side Entry with Clamp  |  |  | M32 PG21 | 1192 032 BC42 0192 032 BC40 |
| Hoods Side Entry HC with Clamp  |  |  | M40 PG29 | 1192 032 AC43 0192 032 AC41 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  |  |  | 0192 032 PM51 |
| Housing Surface Mounting With Thermoplastic Cover  |  |  | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1192 032 BE72 1192 032 BE73 0192 032 BE70 0192 032 BE71 2 Side Entry 1192 032 BF72 1192 032 BF73 0192 032 BF70 0192 032 BF71 |

Standard Hoods / Housings for below insert (Male / Female)


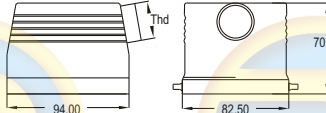

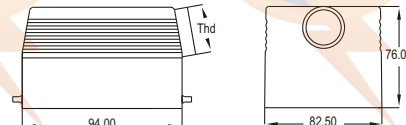

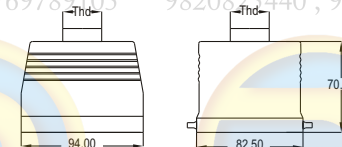

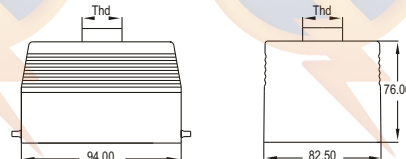

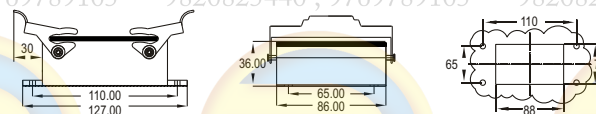

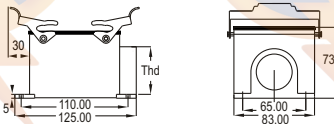

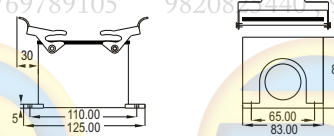
| | | | | |
|---------------------------------|------------------------------------|--------------------|---------------------------|----------------|
| Inserts (Male/Female) ICO CA | Type of terminal Screw Terminal | Rating 16 A-250 | No of. Pin 48 (16x3)+⊖ | Page No. 36 |
|---------------------------------|------------------------------------|--------------------|---------------------------|----------------|

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|---------------------|---|
| Hood Side Entry  |  | | M40 PG29 | 1192 048 BC13 0192 048 BC11 |
| Hood Side Entry HC  |  | | M40 PG29 PG36 | 1192 048 AC13 0192 048 AC11 0192 048 AC15 |
| Hood Top Entry  |  | | M40 PG29 | 1192 048 BD13 0192 048 BD11 |
| Hood Top Entry HC  |  | | M40 PG29 PG36 | 1192 048 AD13 0192 048 AD11 0192 048 AD15 |
| Housing Bulkhead Mounting  |  | Panel cut out  | | 0192 048 PM40 |
| Housings Surface Mounting  |  | | M32 M40 PG29 | 1 Side Entry 1192 048 BE12 1192 048 BE13 0192 048 BE11 |
| Housings Surface Mounting HC  |  | | M32 M40 PG29 | 2 Side Entry 1192 048 BF12 1192 048 BF13 0192 048 BF11 |
| |  | | M40 PG29 PG36 | 1 Side Entry 1192 048 AE13 0192 048 AE11 0192 048 AE15 |
| |  | | M40 PG29 PG36 | 2 Side Entry 1192 048 AF13 0192 048 AF11 0192 048 AF15 |


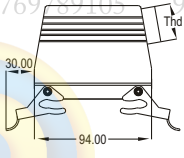
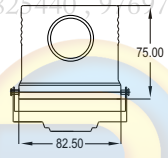

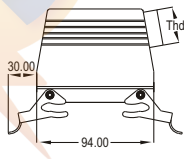
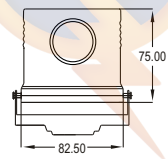

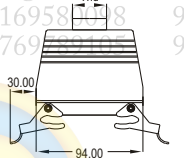
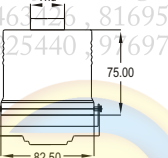

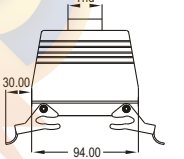
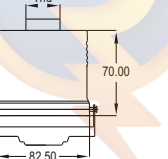

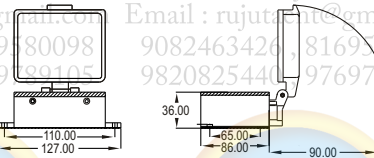
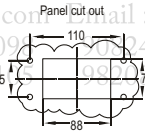

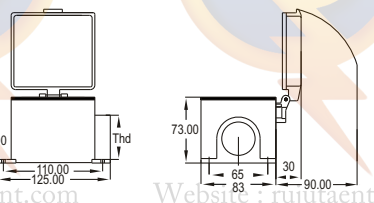
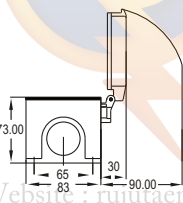

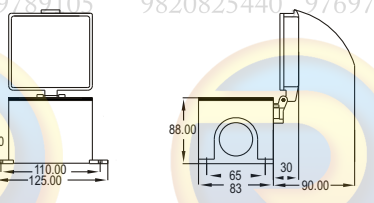
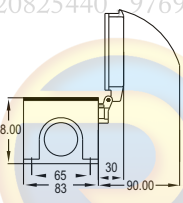
Standard Hoods / Housings (Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|------------------|------------------------------|--|
| <p>Hood Side Entry HC with Clamp</p>  |  | | <p>M40 PG29</p> | <p>1192 048 AC23 0192 048 AC21</p> |
| <p>Hood Top Entry HC with Clamp</p>  |  | | <p>M40 PG29</p> | <p>1192 048 AD23 0192 048 AD21</p> |
| <p>Housing Bulkhead Mounting With Thermoplastic cover</p>  |  | | | <p>0192 048 PM45</p> |
| <p>Housings Surface Mounting With Thermoplastic cover</p>  |  | | <p>M32 M40 PG29</p> | <p>1 Side Entry 1192 048 BE42 1192 048 BE43 0192 048 BE41 2 Side Entry 1192 048 BF42 1192 048 BF43 0192 048 BF41</p> |
| <p>Housings Surface Mounting HC With Thermoplastic cover</p>  |  | | <p>M40 PG29 PG36</p> | <p>1 Side Entry 1192 048 AE43 0192 048 AE41 0192 048 AE45 2 Side Entry 1192 048 AF43 0192 048 AF41 0192 048 AF45</p> |

Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|--|---------------------|--|
| Hood Side Entry  |  | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 | M40 PG29 | 1192 048 BC93 0192 048 BC91 |
| Hood Side Entry HC  |  | 9082463426, 8169580098 9820825440, 9769789105 | M40 PG29 PG36 | 1192 048 AC93 0192 048 AC91 0192 048 AC95 |
| Hood Top Entry  |  | 9082463426, 8169580098 9820825440, 9769789105 | M40 PG29 | 1192 048 BD93 0192 048 BD91 |
| Hood Top Entry HC  |  | 9082463426, 8169580098 9820825440, 9769789105 | M40 PG29 PG36 | 1192 048 AD93 0192 048 AD91 0192 048 AD95 |
| Housing Bulkhead Mounting  |  | 9082463426, 8169580098 9820825440, 9769789105 | | 0192 048 PM54 |
| Housings Surface Mounting  |  | 9082463426, 8169580098 9820825440, 9769789105 | M32 M40 PG29 | 1 Side Entry 1192 048 BE62 1192 048 BE63 0192 048 BE61 2 Side Entry 1192 048 BF62 1192 048 BF63 0192 048 BF61 |
| Housings Surface Mounting HC  |  | 9082463426, 8169580098 9820825440, 9769789105 | M40 PG29 PG36 | 1 Side Entry 1192 048 AE63 0192 048 AE61 0192 048 AE65 2 Side Entry 1192 048 AF63 0192 048 AF61 0192 048 AF65 |


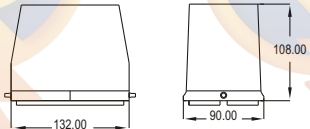
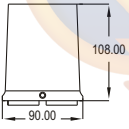

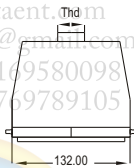
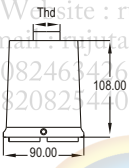

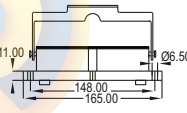
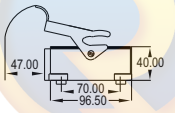
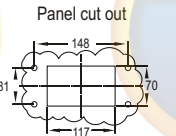

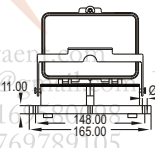
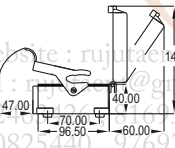
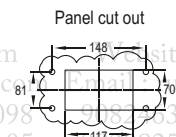

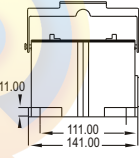
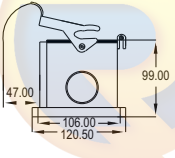

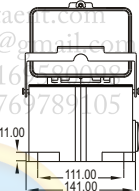
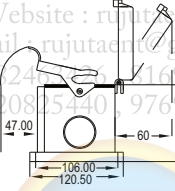
Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|--|----------------------------|---|
| Hood Side Entry with Clamp  |  |  | M40 PG29 | 1192 048 BC43 0192 048 BC41 |
| Hood Side Entry HC with Clamp  |  |  | M40 PG29 PG36 | 1192 048 AC43 0192 048 AC41 0192 048 AC45 |
| Hood Top Entry with Clamp  |  |  | M40 PG29 | 1192 048 BD43 0192 048 BD41 |
| Hood Top Entry HC with Clamp  |  |  | M40 PG29 PG36 | 1192 048 AD43 0192 048 AD41 0192 048 AD45 |
| Housing Bulkhead Mounting With Thermoplastic cover  |  |  | | 0192 048 PM51 |
| Housings Surface Mounting With Thermoplastic cover  |  |  | M32 M40 PG29 | 1 Side Entry 1192 048 BE72 1192 048 BE73 0192 048 BE71 |
| Housings Surface Mounting HC With Thermoplastic cover  |  |  | M32 M40 PG29 PG36 | 2 Side Entry 1192 048 BF72 1192 048 BF73 0192 048 BF71 |
| | | | M40 PG29 PG36 | 1 Side Entry 1192 048 AE73 0192 048 AE71 0192 048 AE75 |
| | | | M40 PG29 PG36 | 2 Side Entry 1192 048 AF73 0192 048 AF71 0192 048 AF75 |

Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No of. Pin | Page No. |
|-----------------------|------------------|-----------|---------------------|----------|
| ICO CA | Screw Terminal | 16 A-250 | 64 (16x4)+ \oplus | 37 |
| ICO CA | Screw Terminal | 16 A-250V | 72 (24x3)+ \oplus | 38 |

(Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|---|--|--|
| Hood Side Entry HC  |  |  | M40 M50 PG29 PG36 | 1192 072 AC83 1192 072 AC84 0192 072 AC81 0192 072 AC85 |
| Hood Top Entry HC  |  |  | M40 M50 PG29 PG36 | 1192 072 AD83 1192 072 AD84 0192 072 AD81 0192 072 AD85 |
| Housing Bulkhead Mounting  |  |  |  | 0192 072 PM46 |
| Housing Bulkhead Mounting with Thermoplastic Cover  |  |  |  | 0192 072 PM47 |
| Housing Surface Mounting HC  |  |  | M40 M50 PG29 PG36 | 1 Side Entry 1192 072 AE93 1192 072 AE94 0192 072 AE91 0192 072 AE95 2 Side Entry M40 1192 072 AF93 M50 1192 072 AF94 PG29 0192 072 AF91 PG36 0192 072 AF95 |
| Housing Surface Mounting HC with Thermoplastic Cover  |  |  | M40 M50 PG29 PG36 | 1 Side Entry 1192 072 AE33 1192 072 AE34 0192 072 AE31 0192 072 AE35 2 Side Entry M40 1192 072 AF33 M50 1192 072 AF34 PG29 0192 072 AF31 PG36 0192 072 AF35 |

TECHNICAL CHARACTERISTICS

SIZE 6B TO 48B

| Metal Hoods & Housings IP65 (Plastic Lever) | |
|--|---------------------------------|
| Material | Aluminium die -cast |
| Colour | Grey RAL 7037 |
| Surface Finish | Epoxy powder coating |
| Locking Lever | Single/Double Clamp (Plastic) |
| Material | Polycarbonate with metal insert |
| Hoods/ Housing seal | NBR |
| Limiting temperatures | -40...+125°C |
| Degree of protection acc.to DIN EN | |
| 60 529 for coupled connector | IP65 |

| Metal Hoods & Housings IP65 (Metal Lever) | |
|--|-----------------------------|
| Material | Aluminium die -cast |
| Colour | Grey RAL 7037 |
| Surface Finish | Epoxy powder coating |
| Locking Lever | Single/Double Clamp (Metal) |
| Surface Finish | Zink Blue Plating |
| Hoods/ Housing seal | NBR |
| Limiting temperatures | -40...+125°C |
| Degree of protection acc.to DIN EN | |
| 60 529 for coupled connector | IP65 |


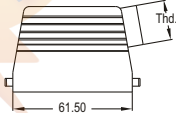
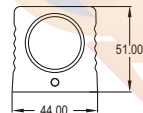

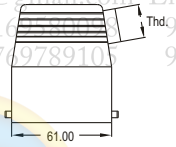
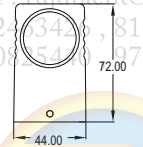

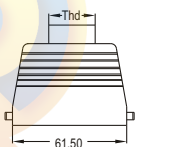
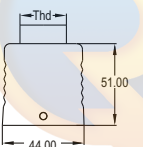

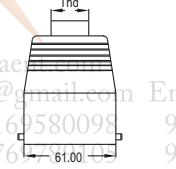
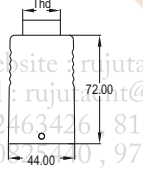

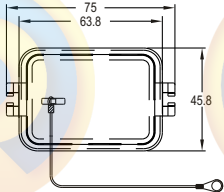

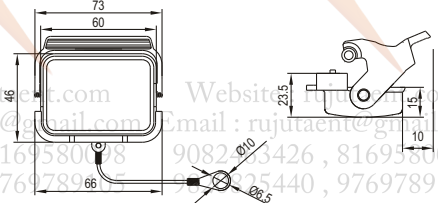

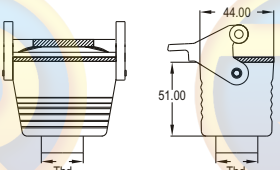
HPR - SIZE 6B, 10B, 16B & 24B

| HPR Pressure tight Hoods /Housings for I IP68 | |
|--|----------------------|
| Material | Aluminium die -cast |
| Colour | Black |
| Surface | Epoxy powder coating |
| Locking | Screw looking |
| Surface Finish | Stainless steel |
| Hoods/ Housing seal | NBR |
| Limiting temperatures | -40...+125°C |
| Degree of protection acc.to DIN EN | |
| 60 529 for coupled connector | IP68 |


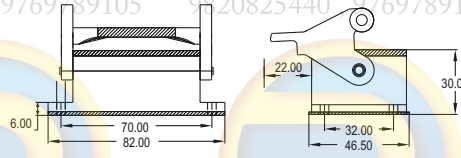
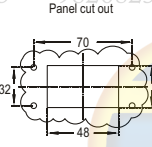

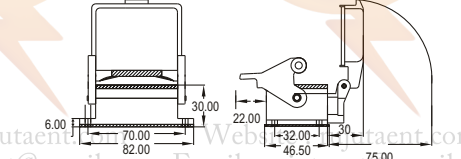
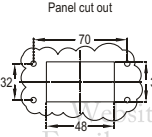

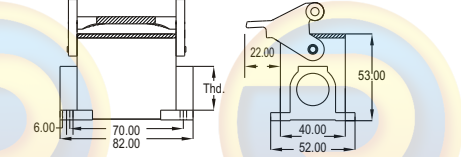

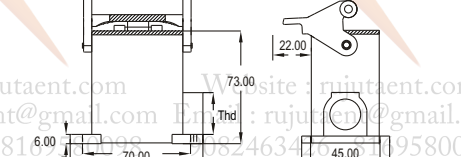

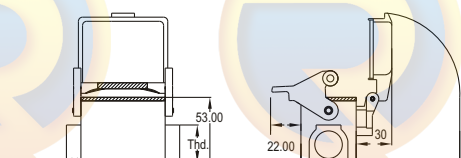

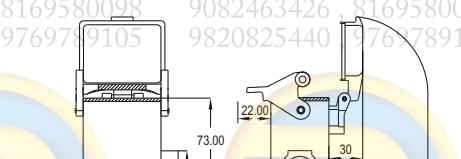
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No of. Pin | Page No. |
|-----------------------|---------------------------|------------|------------|----------|
| ICO A | Screw Terminal | 16A 500V | 6+ ♂ | 9 |
| ICO AA | Screwless Spring Terminal | 16A 500V | 6+ ♂ | 9 |
| ICO AB | Crimp Terminal | 16A 500V | 6+ ♂ | 9 |
| ICO ABS | Crimp Terminal | 16A 500V | 10+ ♂ | 19 |
| ICO DD | Crimp Terminal | 10 A-250 V | 24+ ♂ | 51 |


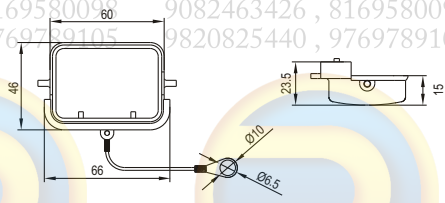

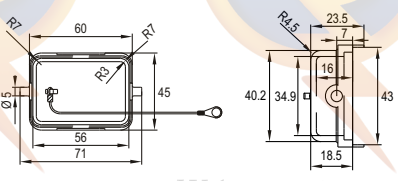
(Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|------------------------------|--|
| Hood Side Entry  |  |  | M20 M25 PG13.5 PG16 | 1191 006 BC30 1191 006 BC31 0191 006 BC33 0191 006 BC32 |
| Hood Side Entry HC  |  |  | M25 M32 PG21 PG29 | 1191 006 AC31 1191 006 AC32 0191 006 AC30 0191 006 AC31 |
| Hood Top Entry  |  |  | M20 M25 PG13.5 PG16 | 1191 006 BD30 1191 006 BD31 0191 006 BD33 0191 006 BD32 |
| Hood Top Entry HC  |  |  | M25 M32 PG21 PG29 | 1191 006 AD31 1191 006 AD32 0191 006 AD30 0191 006 AD31 |
| Protection Cover for Hood Thermoplastic  |  | | | 0191 006 P220 |
| Protection Cover for Hood Metal  |  | | | 0191 006 M120 |
| Hood Cable to Cable  |  | | M20 M25 PG13.5 PG16 | 1191 006 BM30 1191 006 BM31 0191 006 BM33 0191 006 BM32 |


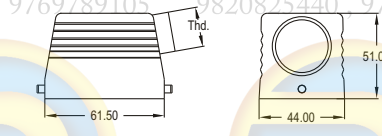

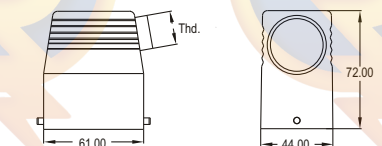



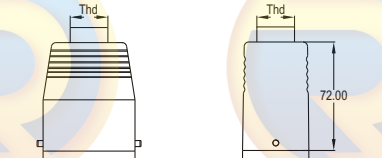

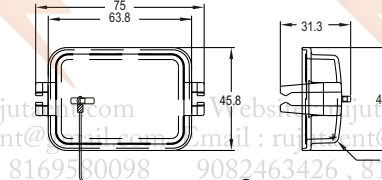

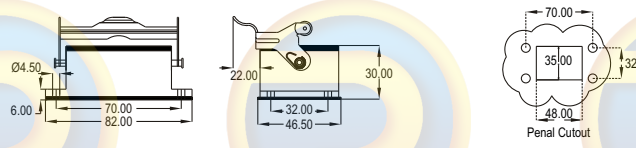

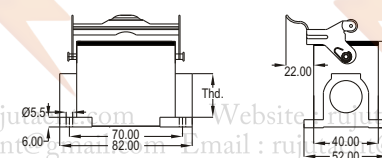

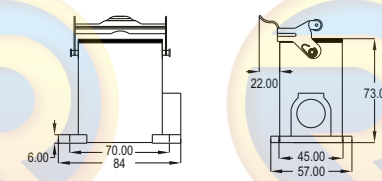
Standard Hoods / Housings (Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|--|--|--|
| <p>Housing Bulkhead Mounting</p>  |  |  | | <p>0191 006 PM43</p> |
| <p>Housing Bulkhead Mounting With Thermoplastic Cover</p>  |  |  | | <p>0191 006 PM44</p> |
| <p>Housing Surface Mounting</p>  |  | | <p>M20 M25 PG13.5 PG16</p> | <p>1 Side Entry 1191 006 BE20 1191 006 BE21 0191 006 BE23 0191 006 BE22 2 Side Entry 1191 006 BF20 1191 006 BF21 0191 006 BF23 0191 006 BF22</p> |
| <p>Housing Surface Mounting HC</p>  |  | | <p>M32 PG21 PG29</p> | <p>1 Side Entry 1191 006 AE22 0191 006 AE20 0191 006 AE21 2 Side Entry 1191 006 AF22 0191 006 AF20 0191 006 AF21</p> |
| <p>Housing Surface Mounting With Thermoplastic Cover</p>  |  | | <p>M20 M25 PG13.5 PG16</p> | <p>1 Side Entry 1191 006 BE00 1191 006 BE01 0191 006 BE03 0191 006 BE02 2 Side Entry 1191 006 BF00 1191 006 BF01 0191 006 BF03 0191 006 BF02</p> |
| <p>Housing Surface Mounting HC With Thermoplastic Cover</p>  |  | | <p>M25 M32 PG21 PG29</p> | <p>1 Side Entry 1191 006 AE01 1191 006 AE02 0191 006 AE00 0191 006 AE01 2 Side Entry 1191 006 AF01 1191 006 AF02 0191 006 AF00 0191 006 AF01</p> |

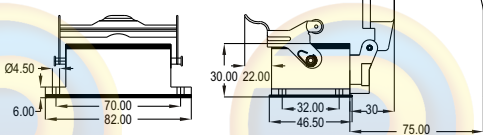
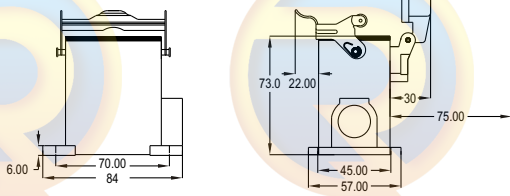
Standard Hoods / Housings

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|-------------|----------------------|
| <p>Protection Cover for Housing-Metal</p>  |  | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>M20</p> | <p>0191 006 M020</p> |
| <p>Protection Cover for Housing Thermoplastic</p>  |  | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>P020</p> | <p>0191 006 P020</p> |

Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|---|--|--|
| Hood Side Entry  |  | 61.50 44.00 51.00 Thd. | M20 M25 PG13.5 PG16 | 1191 006 BC30 1191 006 BC31 0191 006 BC33 0191 006 BC32 |
| Hood Side Entry HC  |  | 61.00 44.00 72.00 Thd. | M25 M32 PG21 PG29 | 1191 006 AC31 1191 006 AC32 0191 006 AC30 0191 006 AC31 |
| Hood Top Entry  |  | 61.50 44.00 51.00 Thd. | M20 M25 PG13.5 PG16 | 1191 006 BD30 1191 006 BD31 0191 006 BD33 0191 006 BD32 |
| Hood Top Entry HC  |  | 61.00 44.00 72.00 Thd. | M25 M32 PG21 PG29 | 1191 006 AD31 1191 006 AD32 0191 006 AD30 0191 006 AD31 |
| Protection Cover for Hood Thermoplastic  |  | 75 63.8 31.3 45.8 R2.5 | | 0191 006 P220 |
| Housing Bulkhead Mounting  |  | 70.00 82.00 6.00 22.00 30.00 32.00 46.50 70.00 32.00 48.00 Penal Cutout | | 0191 006 PM52 |
| Housing Surface Mounting  |  | 70.00 82.00 6.00 22.00 53.00 40.00 52.00 Thd. | M20 M25 PG13.5 PG16 | 1 Side Entry 1191 006 BE90 1191 006 BE91 0191 006 BE93 0191 006 BE92 2 Side Entry 1191 006 BF90 1191 006 BF91 0191 006 BF93 0191 006 BF92 |
| Housing Surface Mounting HC  |  | 70.00 84.00 6.00 22.00 73.00 45.00 57.00 Thd. | M32 PG21 PG29 M32 PG21 PG29 | 1 Side Entry 1191 006 AE92 1191 006 AE90 0191 006 AE91 2 Side Entry 1191 006 AF92 0191 006 AF90 0191 006 AF91 |


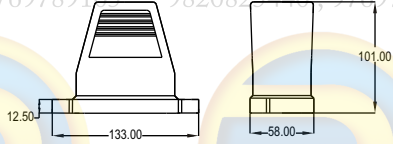

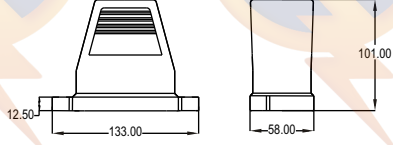

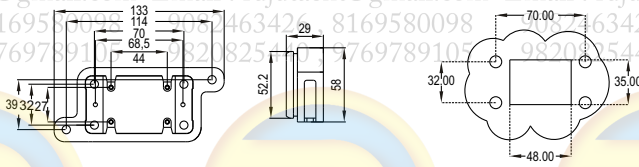

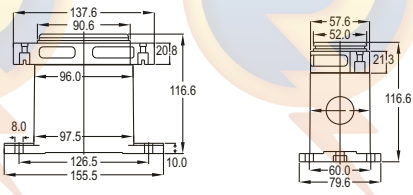

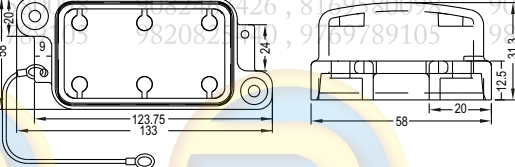
Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|--|--|---|
| Housing Bulkhead Mounting with Thermoplastic Cover  |  |  | | 9082463426, 8169580098, 9820825440, 9769789105 9082463426, 8169580098, 9820825440, 9769789105 9082463426, 8169580098, 9820825440, 9769789105 9082463426, 8169580098, 9820825440, 9769789105 0191 006 PM55 |
| Housing Surface Mounting with Thermoplastic Cover  |  | | M20 M25 PG13.5 PG16 M20 M25 PG13.5 PG16 | 1 Side Entry 1191 006 BE30 1191 006 BE31 0191 006 BE33 0191 006 BE32 2 Side Entry 1191 006 BF30 1191 006 BF31 0191 006 BF33 0191 006 BF32 |
| Housing Surface Mounting HC with Thermoplastic Cover  |  | | M32 PG21 PG29 M32 PG21 PG29 | 1 Side Entry 1191 006 AE32 0191 006 AE30 0191 006 AE31 2 Side Entry 1191 006 AF32 0191 006 AF30 0191 006 AF31 |


SIZE 6B HPR

indoelectricals.com


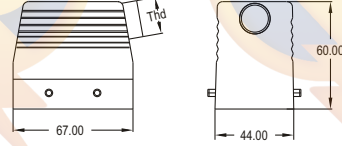

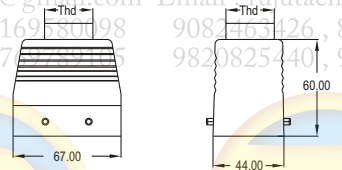

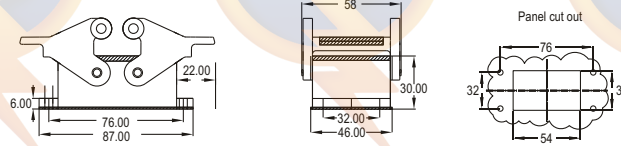

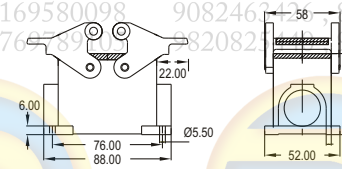

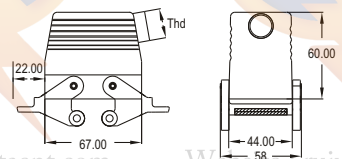

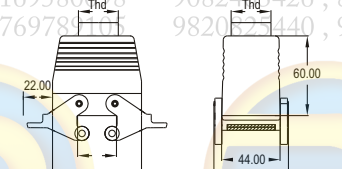
Standard Hoods / Housings

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|--|--|--|
| Hood HPR  |  | 12.50, 133.00, 58.00, 101.00 | M25 M32 PG16 PG21 | 1171 006 AC01 1171 006 AC02 0171 006 AC02 0171 006 AC00 |
| Hood Top Entry HPR  |  | 12.50, 133.00, 58.00, 101.00 | M25 M32 PG16 PG21 | 1171 006 AD01 1171 006 AD02 0171 006 AD02 0171 006 AD00 |
| Housing Bulkhead Mounting HPR  |  | 133, 114, 70, 68.5, 44, 29, 52.2, 58, 70.00, 32.00, 35.00, 48.00 | | 0171 006 PM53 |
| Housing Surface Mounting HPR  |  | 137.6, 90.6, 20.8, 96.0, 116.6, 8.0, 97.5, 126.5, 155.5, 10.0, 57.6, 52.0, 21.3, 116.6, 60.0, 79.6 | M25 M32 PG16 PG21 M25 M32 PG16 PG21 | 1 Side Entry 1171 006 AE81 1171 006 AE82 0171 006 AE82 0171 006 AE80 2 Side Entry 1171 006 AF81 1171 006 AF82 0171 006 AF82 0171 006 AF80 |
| Protection Cover for Metal HPR  |  | 123.75, 133, 58, 20, 12.5, 31.9 | | 0171 006 M032 |


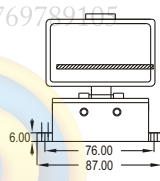
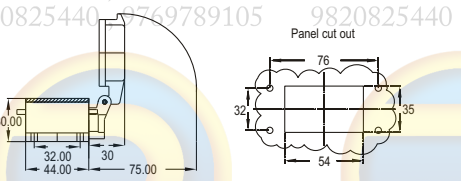

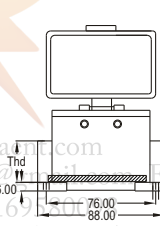
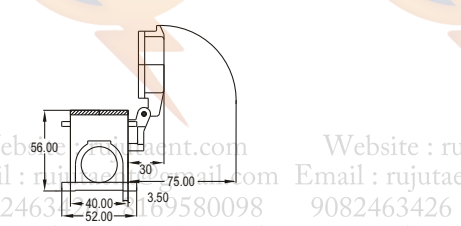

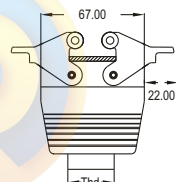
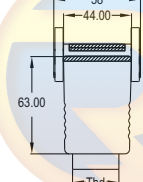
Standard Hoods / Housings for below insert (Male / Female)

| | | | | |
|--------------------------------|------------------------------------|--------------------|--|----------------|
| Inserts (Male/Female) ICO A | Type of terminal Screw Terminal | Rating 16A 500V | No of. Pin 8+  | Page No. 10 |
|--------------------------------|------------------------------------|--------------------|--|----------------|


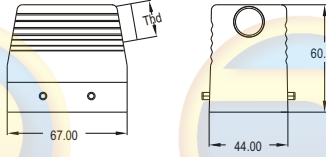

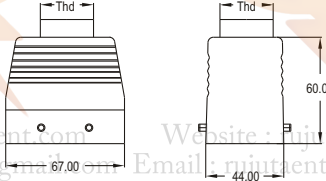

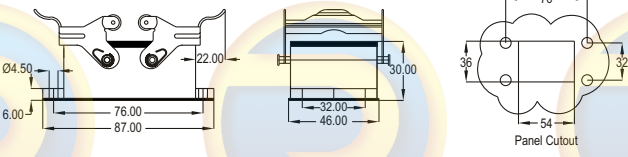

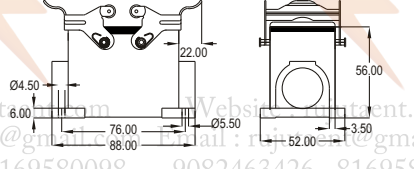

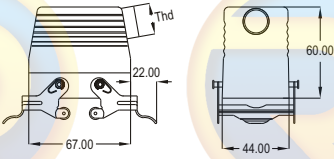

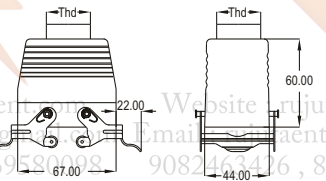

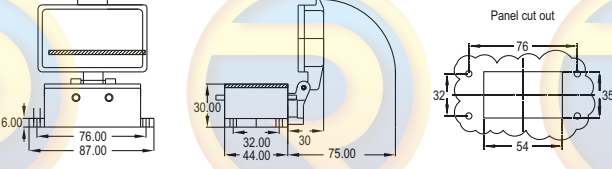
(Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|------------------|------------------------------|--|
| Hood Side Entry  |  | | M20 M25 PG13.5 PG16 | 1191 008 BC10 1191 008 BC11 0191 008 BC13 0191 008 BC12 |
| Hood Top Entry  |  | | M20 M25 PG13.5 PG16 | 1191 008 BD10 1191 008 BD11 0191 008 BD13 0191 008 BD12 |
| Housing Bulkhead Mounting  |  | | | 0191 008 PM40 |
| Housing Surface Mounting  |  | | M20 M25 PG13.5 PG16 | 1 Side Entry 1191 008 BE10 1191 008 BE11 0191 008 BE13 0191 008 BE12 2 Side Entry 1191 008 BF10 1191 008 BF11 0191 008 BF13 0191 008 BF12 |
| Hood Side Entry with Clamp  |  | | M20 M25 PG13.5 PG16 | 1191 008 BC20 1191 008 BC21 0191 008 BC23 0191 008 BC22 |
| Hood Top Entry with Clamp  |  | | M20 M25 PG13.5 PG16 | 1191 008 BD20 1191 008 BD21 0191 008 BD23 0191 008 BD22 |

Standard Hoods / Housings (Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|--|--|--|
| <p>Housing Bulkhead Mounting With Thermoplastic Cover</p>  |  |  | | <p>0191 008 PM45</p> |
| <p>Housing Surface Mounting With Thermoplastic Cover</p>  |  |  | <p>M20 M25 PG13.5 PG16</p> | <p>1 Side Entry 1191 008 BE40 1191 008 BE41 0191 008 BE43 0191 008 BE42 2 Side Entry 1191 008 BF40 1191 008 BF41 0191 008 BF43 0191 008 BF42</p> |
| <p>Hood Cable to Cable</p>  |  |  | <p>M20 M25 PG13.5 PG16</p> | <p>1191 008 BM10 1191 008 BM11 0191 008 BM13 0191 008 BM12</p> |

Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|---|------------------------------|--|
| Hood Side Entry  |  | 67.00, 44.00, 60.00, Thd | M20 M25 PG13.5 PG16 | 1191 008 BC90 1191 008 BC91 0191 008 BC93 0191 008 BC92 |
| Hood Top Entry  |  | 67.00, 44.00, 60.00, Thd | M20 M25 PG13.5 PG16 | 1191 008 BD90 1191 008 BD91 0191 008 BD93 0191 008 BD92 |
| Housing Bulkhead Mounting  |  | 76.00, 67.00, 30.00, 32.00, 46.00, 76, 36, 32, 54, 6.00, Ø4.50, 22.00 | | 0191 008 PM54 |
| Housing Surface Mounting  |  | 76.00, 88.00, 56.00, 3.50, 22.00, Ø4.50, 6.00, Ø5.50 | M20 M25 PG13.5 PG16 | 1 Side Entry 1191 008 BE60 1191 008 BE61 0191 008 BE63 0191 008 BE62 2 Side Entry 1191 008 BF60 1191 008 BF61 0191 008 BF63 0191 008 BF62 |
| Hood Side Entry with Clamp  |  | 67.00, 44.00, 60.00, Thd, 22.00 | M20 M25 PG13.5 PG16 | 1191 008 BC40 1191 008 BC41 0191 008 BC43 0191 008 BC42 |
| Hood Top Entry with Clamp  |  | 67.00, 44.00, 60.00, Thd, 22.00 | M20 M25 PG13.5 PG16 | 1191 008 BD40 1191 008 BD41 0191 008 BD43 0191 008 BD42 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  | 76.00, 87.00, 30.00, 32.00, 44.00, 30, 75.00, 76, 32, 35, 54 | | 0191 008 PM51 |


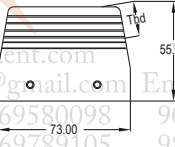

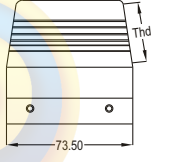

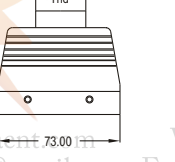

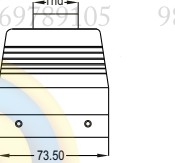

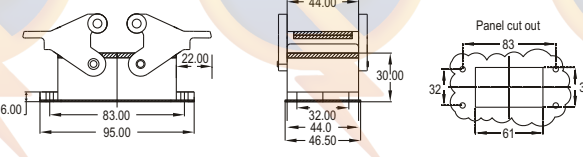

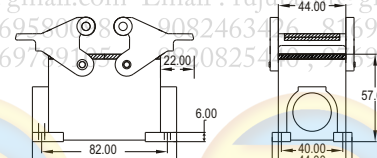
Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---------|---|--|--|
| 63426, 8169580098, 9082463426, 8169580098, 9820825440, 9769789105 Housing Surface Mounting With Thermoplastic Cover | | 63426, 8169580098, 9082463426, 8169580098, 9820825440, 9769789105 | M20 M25 PG13.5 PG16 M20 M25 PG13.5 PG16 | 9082463426, 8169580098, 9820825440, 9769789105 1 Side Entry 1191 008 BE70 1191 008 BE71 0191 008 BE73 0191 008 BE72 2 Side Entry 1191 008 BF70 1191 008 BF71 0191 008 BF73 0191 008 BF72 |


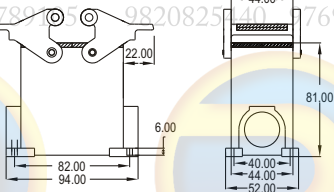

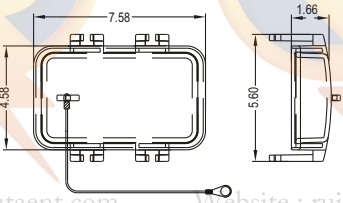

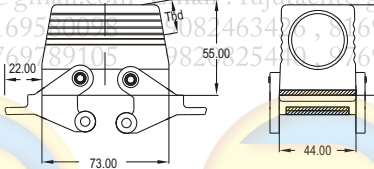

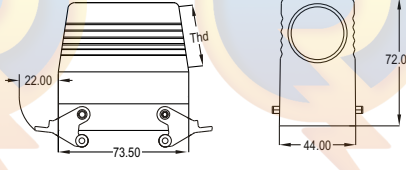

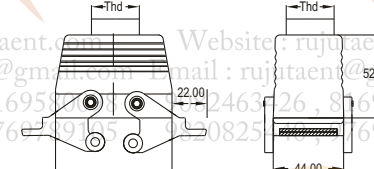

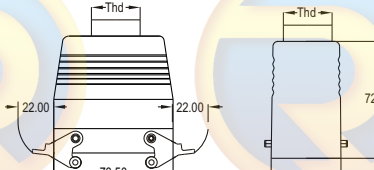

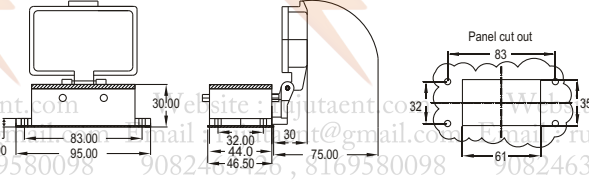

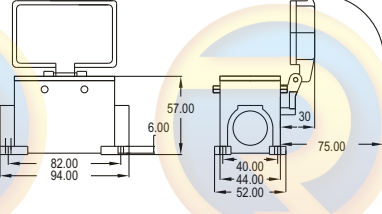
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No. of Pin | Page No. |
|-----------------------|---------------------------|------------|------------|----------|
| ICO A | Screw Terminal | 16A 500V | 10+ | 11 |
| ICO AA | Screwless Spring Terminal | 16A 500V | 10+ | 11 |
| ICO AB | Crimp Terminal | 16A 500V | 10+ | 11 |
| ICO ABS | Crimp Terminal | 16A 500V | 18+ | 20 |
| ICO DD | Crimp Terminal | 10 A-250 V | 42+ | 52 |

(Plastic Double Lever)


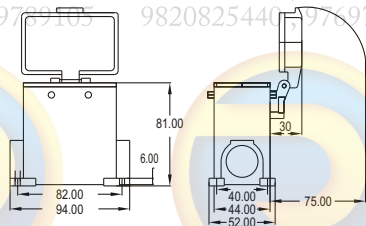

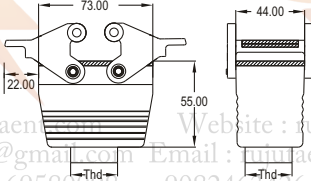
| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|------------------|--|--|
| Hood Side Entry  |  | | M20 M25 PG13.5 PG16 | 1191 010 BC10 1191 010 BC11 0191 010 BC13 0191 010 BC12 |
| Hood Side Entry HC  |  | | M32 PG21 PG29 | 1191 010 AC12 0191 010 AC10 0191 010 AC11 |
| Hood Top Entry  |  | | M20 M25 PG13.5 PG16 | 1191 010 BD10 1191 010 BD11 0191 010 BD13 0191 010 BD12 |
| Hood Top Entry HC  |  | | M32 PG21 PG29 | 1191 010 AD12 0191 010 AD10 0191 010 AD11 |
| Housing Bulkhead Mounting  |  | | | 0191 010 PM40 |
| Housing Surface Mounting  |  | | M20 M25 PG16 M20 M25 PG16 | 1 Side Entry 1191 010 BE10 1191 010 BE11 0191 010 BE12 2 Side Entry 1191 010 BF10 1191 010 BF11 0191 010 BF12 |

Standard Hoods / Housings (Plastic Double Lever)


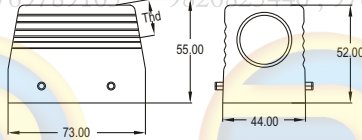

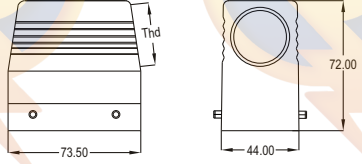

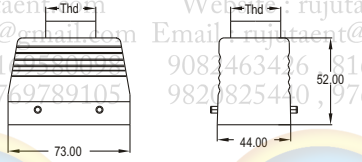

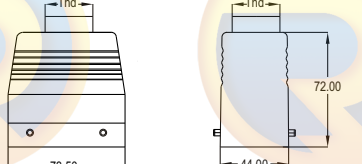

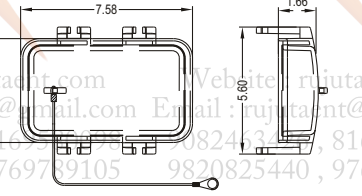

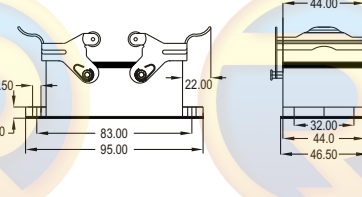

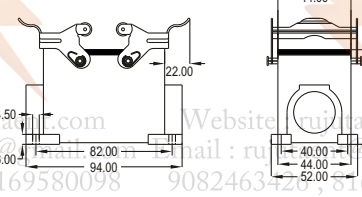

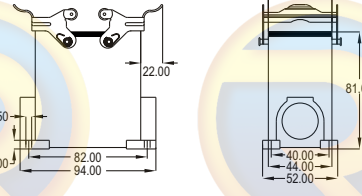
| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|------------------|--|--|
| Housing Surface Mounting HC  |  | | M32 PG21 PG29 M32 PG21 PG29 | 1 Side Entry 1191 010 AE12 0191 010 AE10 0191 010 AE11 2 Side Entry 1191 010 AF12 0191 010 AF10 0191 010 AF11 |
| Protection Cover for Hood Thermoplastic  |  | | | 0191 010 P210 |
| Hood Side Entry with Clamp  |  | | M20 M25 PG13.5 PG16 | 1191 010 BC20 1191 010 BC21 0191 010 BC23 0191 010 BC22 |
| Hood Side Entry HC with Clamp  |  | | M32 PG21 PG29 | 1191 010 AC22 0191 010 AC20 0191 010 AC21 |
| Hood Top Entry with Clamp  |  | | M20 M25 PG13.5 PG16 | 1191 010 BD20 1191 010 BD21 0191 010 BD23 0191 010 BD22 |
| Hood Top Entry HC with Clamp  |  | | M32 PG21 PG29 | 1191 010 AD22 0191 010 AD20 0191 010 AD21 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  | | | 0191 010 PM45 |
| Housing Surface Mounting With Thermoplastic Cover  |  | | M20 M25 PG16 M20 M25 PG16 | 1 Side Entry 1191 010 BE40 1191 010 BE41 0191 010 BE42 2 Side Entry 1191 010 BF40 1191 010 BF41 0191 010 BF42 |

SIZE 10B


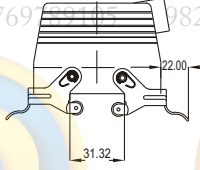
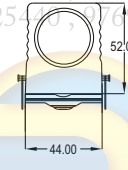

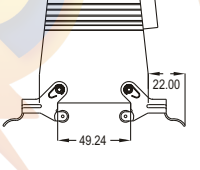
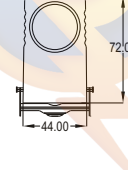

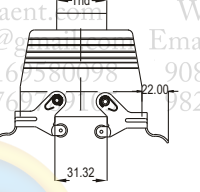
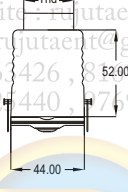

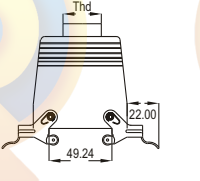
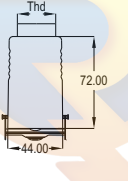

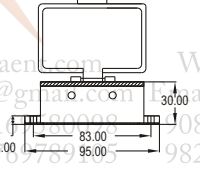
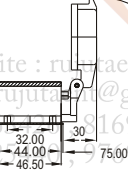

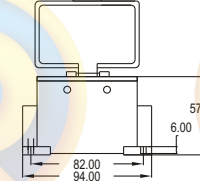
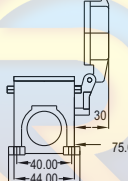

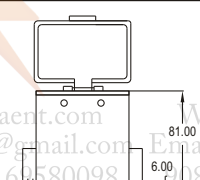
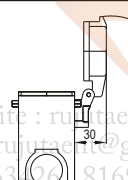

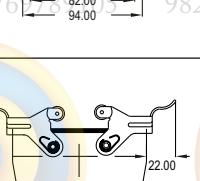
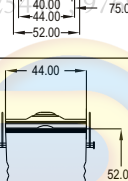
Standard Hoods / Housings (Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|------------------|---|---|
| <p>Housing Surface Mounting HC With Thermoplastic Cover</p>  |  | | <p>M32 PG21 PG29</p> <p>M32 PG21 PG29</p> | <p>1 Side Entry 1191 010 AE42 0191 010 AE40 0191 010 AE41</p> <p>2 Side Entry 1191 010 AF42 0191 010 AF40 0191 010 AF41</p> |
| <p>Hood Cable to Cable</p>  |  | | <p>M20 M25 PG13.5 PG16</p> | <p>1191 010 BM10 1191 010 BM11 0191 010 BM13 0191 010 BM12</p> |


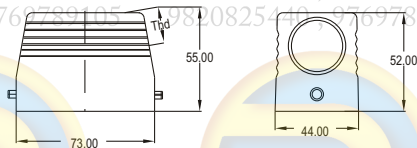

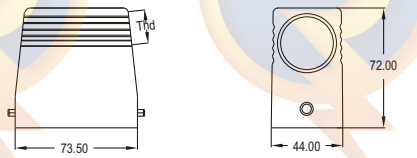

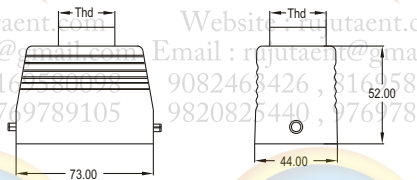

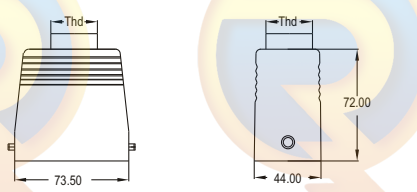

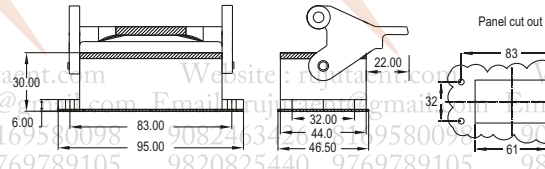

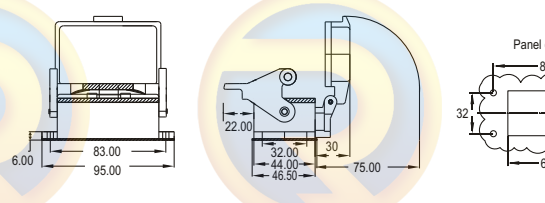

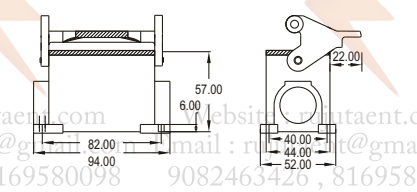

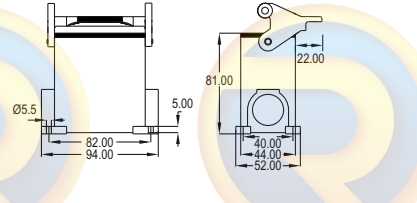
Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|------------------|--|--|
| Hood Side Entry  |  | | M20 M25 PG13.5 PG16 | 1191 010 BC90 1191 010 BC91 0191 010 BC93 0191 010 BC92 |
| Hood Side Entry HC  |  | | M32 PG21 PG29 | 1191 010 AC92 0191 010 AC90 0191 010 AC91 |
| Hood Top Entry  |  | | M20 M25 PG13.5 PG16 | 1191 010 BD90 1191 010 BD91 0191 010 BD93 0191 010 BD92 |
| Hood Top Entry HC  |  | | M32 PG21 PG29 | 1191 010 AD92 0191 010 AD90 0191 010 AD91 |
| Protection Cover for Hood Thermoplastic  |  | | | 0191 010 P210 |
| Housing Bulkhead Mounting  |  | | | 0191 010 PM54 |
| Housing Surface Mounting  |  | | M20 M25 PG16 M20 M25 PG16 | 1 Side Entry 1191 010 BE60 1191 010 BE61 0191 010 BE62 2 Side Entry 1191 010 BF60 1191 010 BF61 0191 010 BF62 |
| Housing Surface Mounting HC  |  | | M32 PG21 PG29 M32 PG21 PG29 | 1 Side Entry 1191 010 AE62 0191 010 AE60 0191 010 AE61 2 Side Entry 1191 010 AF62 0191 010 AF60 0191 010 AF61 |


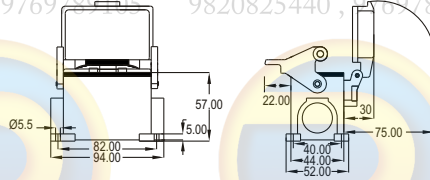

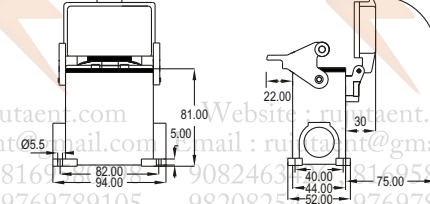
Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|--|--|
|  <p>Hood Side Entry with Clamp</p> |  |  | M20 M25 PG13.5 PG16 | 1191 010 BC40 1191 010 BC41 0191 010 BC43 0191 010 BC42 |
|  <p>Hood Side Entry HC with Clamp</p> |  |  | M32 PG21 PG29 | 1191 010 AC42 0191 010 AC40 0191 010 AC41 |
|  <p>Hood Top Entry with Clamp</p> |  |  | M20 M25 PG13.5 PG16 | 1191 010 BD40 1191 010 BD41 0191 010 BD43 0191 010 BD42 |
|  <p>Hood Top Entry HC with Clamp</p> |  |  | M32 PG21 PG29 | 1191 010 AD42 0191 010 AD40 0191 010 AD41 |
|  <p>Housing Bulkhead Mounting With Thermoplastic Cover</p> |  |  | | 0191 010 PM51 |
|  <p>Housing Surface Mounting With Thermoplastic Cover</p> |  |  | M20 M25 PG16 M20 M25 PG16 | 1 Side Entry 1191 010 BE70 1191 010 BE71 0191 010 BE72 2 Side Entry 1191 010 BF70 1191 010 BF71 0191 010 BF72 |
|  <p>Housing Surface Mounting HC With Thermoplastic Cover</p> |  |  | M32 PG21 PG29 M32 PG21 PG29 | 1 Side Entry 1191 010 AE72 0191 010 AE70 0191 010 AE71 2 Side Entry 1191 010 AF72 0191 010 AF70 0191 010 AF71 |
|  <p>Hood Cable to Cable</p> |  |  | M20 M25 PG13.5 PG16 | 1191 010 BM90 1191 010 BM91 0191 010 BM93 0191 010 BM92 |


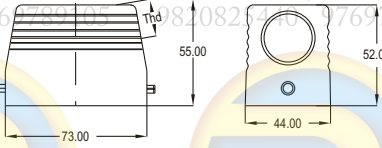

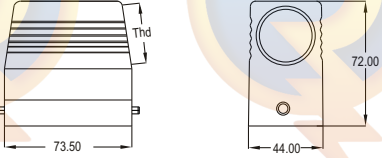

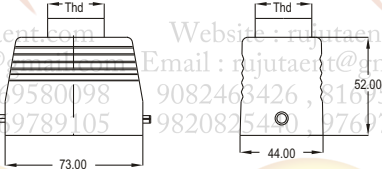

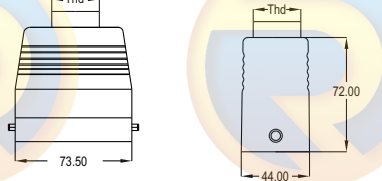

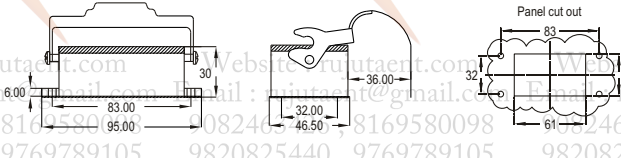

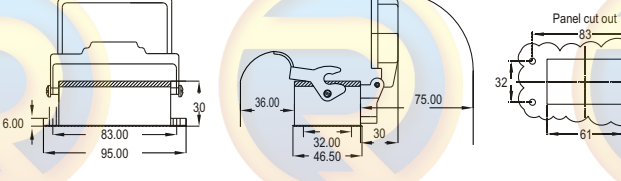

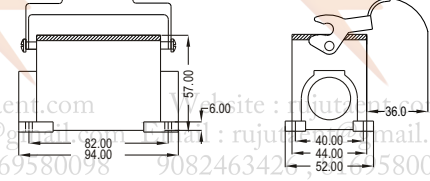

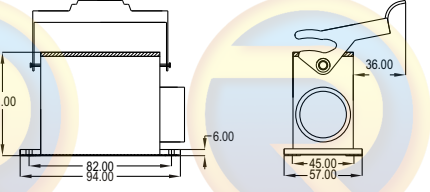
Standard Hoods / Housings (Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|--|--|--|
| Hood Side Entry  |  | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 | M20 M25 PG13.5 PG16 | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 |
| Hood Side Entry HC  |  | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 | M32 PG21 PG29 | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 |
| Hood Top Entry  |  | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 | M20 M25 PG13.5 PG16 | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 |
| Hood Top Entry HC  |  | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 | M32 PG21 PG29 | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 |
| Housing Bulkhead Mounting  |  | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 | | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 |
| Housing Bulkhead Mounting with Thermoplastic Cover  |  | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 | | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 |
| Housing Surface Mounting  |  | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 | M20 M25 PG16 | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 |
| Housing Surface Mounting HC  |  | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 | M32 PG21 PG29 M32 PG21 PG29 | 9082463426, 8169580098 9082463426, 8169580098 9820825440, 9769789105 |

Standard Hoods / Housings (Plastic Single Lever)


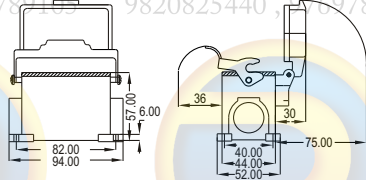
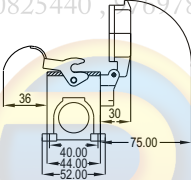

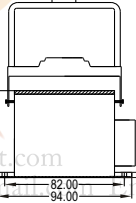
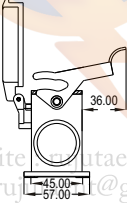
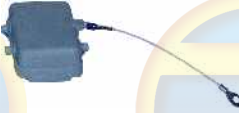
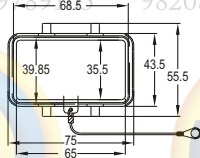
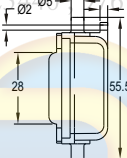
| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|--|--|--|
| <p>Housing Surface Mounting With Thermoplastic Cover</p>  |  | | <p>M20 M25 PG16 M20 M25 PG16</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> <p>1 Side Entry 1191 010 BE00 1191 010 BE01 0191 010 BE02 2 Side Entry 1191 010 BF00 1191 010 BF01 0191 010 BF02</p> |
| <p>Housing Surface Mounting HC With Thermoplastic Cover</p>  |  | | <p>M32 PG21 PG29 M32 PG21 PG29</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> <p>1 Side Entry 1191 010 AE02 0191 010 AE00 0191 010 AE01 2 Side Entry 1191 010 AF02 0191 010 AF00 0191 010 AF01</p> |
| <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> |
| <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> |
| <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> |
| <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> |
| <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> | <p>Website : rujutaent.com Email : rujutaent@gmail.com</p> |
| <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>9082463426, 8169580098, 9820825440, 9769789105</p> |

Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|------------------|--|--|
| Hood Side Entry  |  | | M20 M25 PG13.5 PG16 | 1191 010 BC80 1191 010 BC81 0191 010 BC83 0191 010 BC82 |
| Hood Side Entry HC  |  | | M32 PG21 PG29 | 1191 010 AC82 0191 010 AC80 0191 010 AC81 |
| Hood Top Entry  |  | | M20 M25 PG13.5 PG16 | 1191 010 BD80 1191 010 BD81 0191 010 BD83 0191 010 BD82 |
| Hood Top Entry HC  |  | | M32 PG21 PG29 | 1191 010 AD82 0191 010 AD80 0191 010 AD81 |
| Housing Bulkhead Mounting  |  | | | 0191 010 PM52 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  | | | 0191 010 PM55 |
| Housing Surface Mounting  |  | | M20 M25 PG16 M20 M25 PG16 | 1 Side Entry 1191 010 BE90 1191 010 BE91 0191 010 BE92 2 Side Entry 1191 010 BF90 1191 010 BF91 0191 010 BF92 |
| Housing Surface Mounting HC  |  | | M32 PG21 PG29 M32 PG21 PG29 | 1 Side Entry 1191 010 AE92 0191 010 AE90 0191 010 AE91 2 Side Entry 1191 010 AF92 0191 010 AF90 0191 010 AF91 |

SIZE 10B


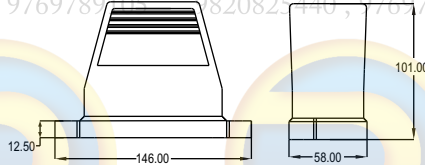

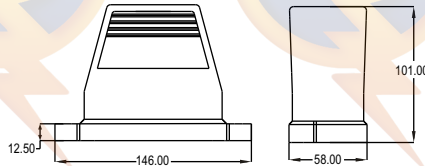

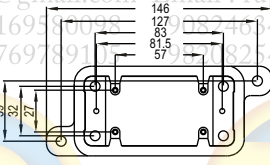
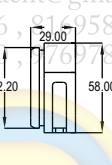

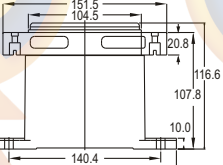
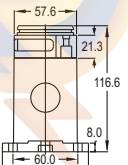

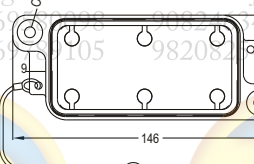
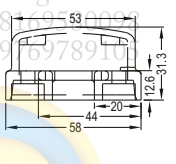
Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|--|--|--|
| Housing Surface Mounting With Thermoplastic Cover  |  |  | M20 M25 PG16 M20 M25 PG16 | 1 Side Entry 1191 010 BE30 1191 010 BE31 0191 010 BE32 2 Side Entry 1191 010 BF30 1191 010 BF31 0191 010 BF32 |
| Housing Surface Mounting HC With Thermoplastic Cover  |  |  | M32 PG21 PG29 M32 PG21 PG29 | 1 Side Entry 1191 010 AE30 0191 010 AE30 0191 010 AE31 2 Side Entry 1191 010 AF32 0191 010 AF30 0191 010 AF31 |
| Protection Cover for Housing Thermoplastic  |  |  | | 0191 010 P010 |

SIZE 10B HPR

indoelectricals.com


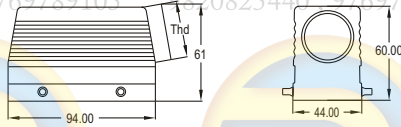
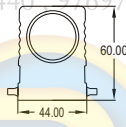

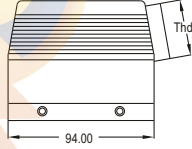
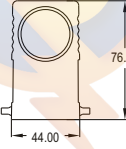

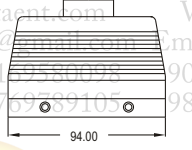
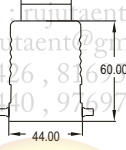

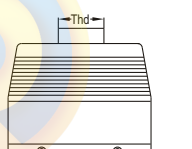
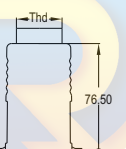

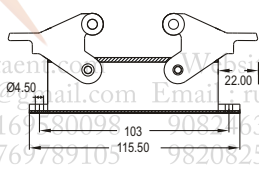
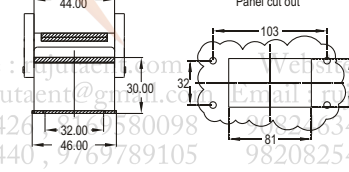

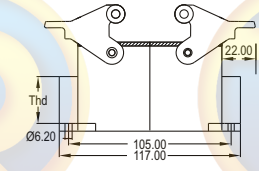
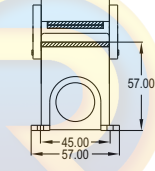
Standard Hoods / Housings

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|---|---|
| <p>Hood HPR</p>  |  | <p>9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098</p> | <p>M25 M32 PG21 PG29</p> | <p>9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098</p> <p>1171 010 AC01 1171 010 AC02 0171 010 AC00 0171 010 AC01</p> |
| <p>Hood Top Entry HPR</p>  |  | <p>9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098</p> | <p>M25 M32 PG21 PG29</p> | <p>9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098</p> <p>1171 010 AD01 1171 010 AD02 0171 010 AD00 0171 010 AD01</p> |
| <p>Housing Bulkhead Mounting HPR</p>  |  |  | <p>9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098</p> | <p>9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098</p> <p>0171 010 PM53</p> |
| <p>Housing Surface Mounting HPR</p>  |  |  | <p>M25 M32 PG21 PG29</p> | <p>1 Side Entry 1171 010 AE81 1171 010 AE82 0171 010 AE80 0171 010 AE81</p> <p>2 Side Entry 1171 010 AF81 1171 010 AF82 0171 010 AF80 0171 010 AF81</p> |
| <p>Protection Cover for Metal HPR</p>  |  |  | <p>9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098</p> | <p>9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098, 9082463426, 8169580098</p> <p>0171 010 M032</p> |


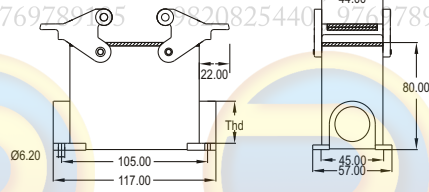
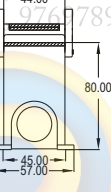

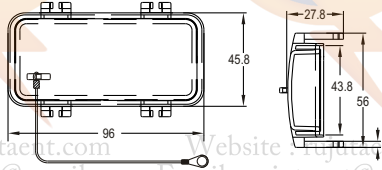
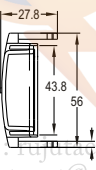

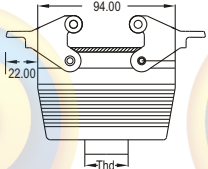
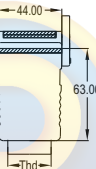

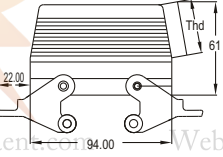
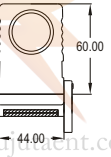

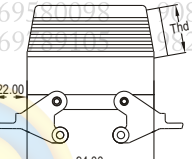
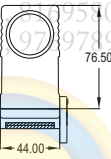

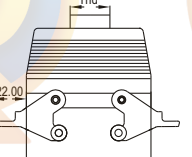
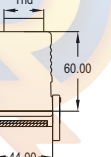

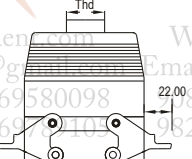
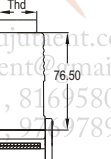

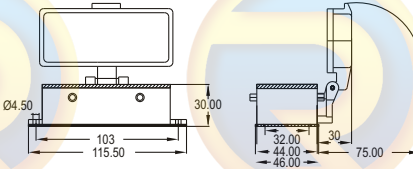
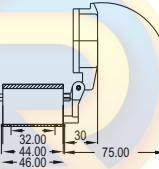
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No. of Pin | Page No. |
|-----------------------|---------------------------|-------------------|---------------|----------|
| ICO A | Screw Terminal | 16A 500V | 16+ ⊕ | 12 |
| ICO AA | Screwless Spring Terminal | 16A 500V | 16+ ⊕ | 12 |
| ICO AB | Crimp Terminal | 16A 500V | 16+ ⊕ | 12 |
| ICO ABS | Crimp Terminal | 16A 500V | 32+ ⊕ | 21 |
| ICO ABE | Crimp Terminal | 16A 500V | 40+ ⊕ | 27 |
| ICO D | Crimp Terminal | 10 A-250V | 40+ ⊕ | 44 |
| ICO DD | Crimp Terminal | 10 A-250V | 72+ ⊕ | 53 |
| ICO B | Screw Terminal | 35 A-690V | 6+ ⊕ | 59 |
| ICO E | Screw Terminal | 80A/16A/830V/400V | 4/0 & 4/2 + ⊕ | 63 |


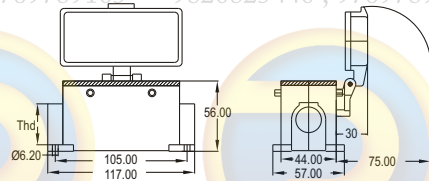

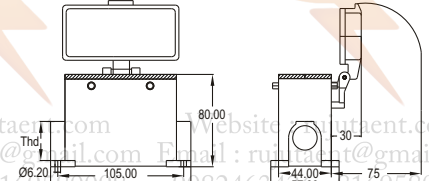

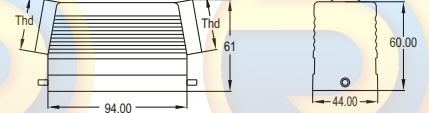

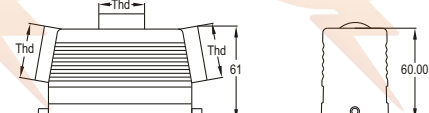

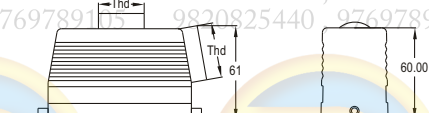
(Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|--|--|--|
|  <p>Hood Side Entry</p> |  |  | M25 M32 PG21 | 1191 016 BC11 1191 016 BC12 0191 016 BC10 |
|  <p>Hood Side Entry HC</p> |  |  | M32 M40 PG21 PG29 | 1191 016 AC12 1191 016 AC13 0191 016 AC10 0191 016 AC11 |
|  <p>Hood Top Entry</p> |  |  | M25 M32 PG21 | 1191 016 BD11 1191 016 BD12 0191 016 BD10 |
|  <p>Hood Top Entry HC</p> |  |  | M32 M40 PG21 PG29 | 1191 016 AD12 1191 016 AD13 0191 016 AD10 0191 016 AD11 |
|  <p>Housing Bulkhead Mounting</p> |  |  | | 0191 016 PM40 |
|  <p>Housing Surface Mounting</p> |  |  | M25 M32 PG21 M25 M32 PG21 | 1 Side Entry 1191 016 BE11 1191 016 BE12 0191 016 BE10 2 Side Entry 1191 016 BF11 1191 016 BF12 0191 016 BF10 |


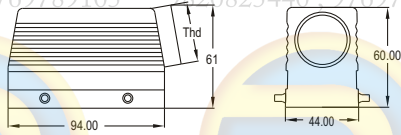

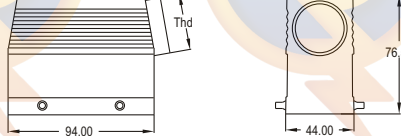





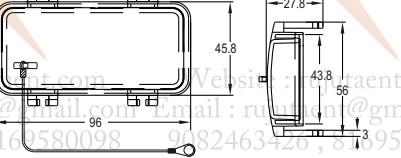

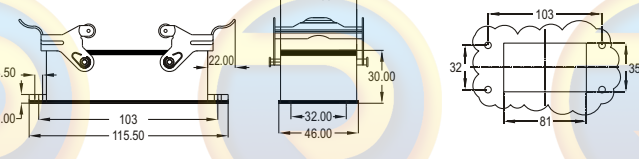

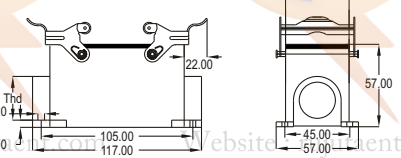

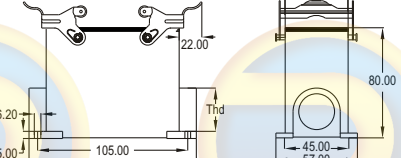
Standard Hoods / Housings (Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|--------------------------------------|--|
| <p>Housing Surface Mounting HC</p>  |  |  | <p>M32 M40 PG21 PG29</p> | <p>1 Side Entry 1191 016 AE12 1191 016 AE13 0191 016 AE10 0191 016 AE11 2 Side Entry 1191 016 AF12 1191 016 AF13 0191 016 AF10 0191 016 AF11</p> |
| <p>Protection Cover for Hood Thermoplastic</p>  |  |  | | <p>0191 016 P210</p> |
| <p>Hood Cable to Cable</p>  |  |  | <p>M25 M32 PG21</p> | <p>1191 016 BM11 1191 016 BM12 0191 016 BM10</p> |
| <p>Hood Side Entry with Clamp</p>  |  |  | <p>M25 M32 PG21</p> | <p>1191 016 BC21 1191 016 BC22 0191 016 BC20</p> |
| <p>Hood Side Entry HC with Clamp</p>  |  |  | <p>M32 M40 PG21 PG29</p> | <p>1191 016 AC22 1191 016 AC23 0191 016 AC20 0191 016 AC21</p> |
| <p>Hood Top Entry with Clamp</p>  |  |  | <p>M25 M32 PG21</p> | <p>1191 016 BD21 1191 016 BD22 0191 016 BD20</p> |
| <p>Hood Top Entry HC with Clamp</p>  |  |  | <p>M32 M40 PG21 PG29</p> | <p>1191 016 AD22 1191 016 AD23 0191 016 AD20 0191 016 AD21</p> |
| <p>Housing Bulkhead Mounting With Thermoplastic Cover</p>  |  |  | | <p>Panel cut out 103 32 35 81</p> <p>0191 016 PM45</p> |


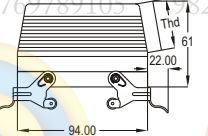

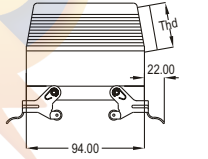

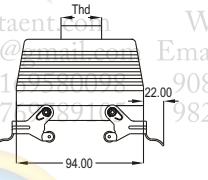

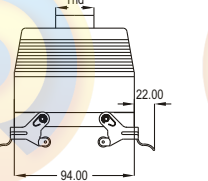

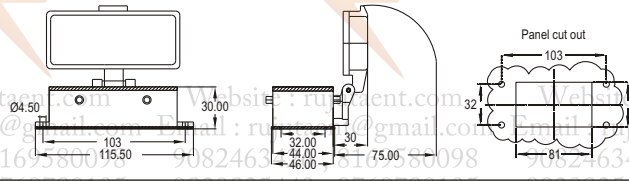

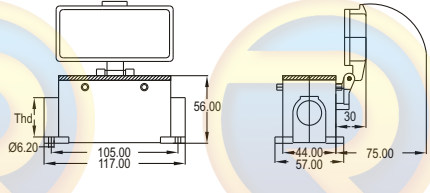

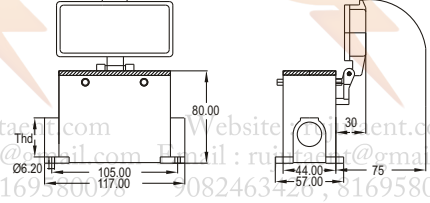
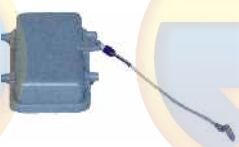
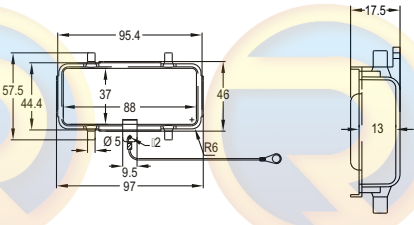
Standard Hoods / Housings (Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|------------------|--|--|
| Housing Surface Mounting With Thermoplastic Cover  |  | | M25 M32 PG21 M25 M32 PG21 | 1 Side Entry 1191 016 BE41 1191 016 BE42 0191 016 BE40 2 Side Entry 1191 016 BF41 1191 016 BF42 0191 016 BF40 |
| Housing Surface Mounting HC With Thermoplastic Cover  |  | | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1191 016 AE42 1191 016 AE43 0191 016 AE40 0191 016 AE41 2 Side Entry 1191 016 AF42 1191 016 AF43 0191 016 AF40 0191 016 AF41 |
| Hood Two Side Entry  |  | | M25 M32 PG21 PG29 | 1191 016 BG11 1191 016 BG12 0191 016 BG10 0191 016 BG11 |
| Hood Three Side Entry  |  | | M25 M32 PG21 PG29 | 1191 016 BH11 1191 016 BH12 0191 016 BH10 0191 016 BH11 |
| Hood One Top Entry and One Side Entry  |  | | M25 M32 PG21 PG29 | 1191 016 BJ11 1191 016 BJ12 0191 016 BJ10 0191 016 BJ11 |


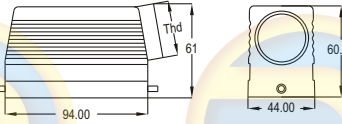

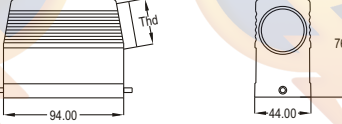



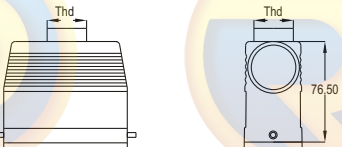

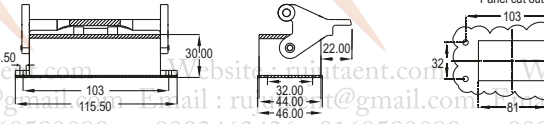

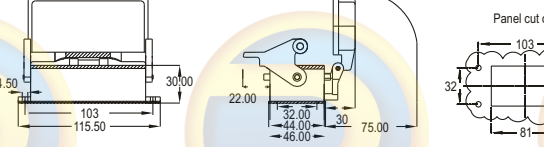

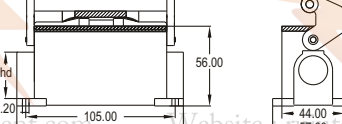

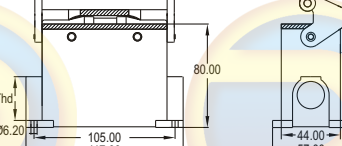
Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|---|--|--|
| Hood Side Entry  |  | 94.00, 61, 60.00, 44.00 | M25 M32 PG21 | 1191 016 BC91 1191 016 BC92 0191 016 BC90 |
| Hood Side Entry HC  |  | 94.00, Thd, 76.50, 44.00 | M32 M40 PG21 PG29 | 1191 016 AC92 1191 016 AC93 0191 016 AC90 0191 016 AC91 |
| Hood Top Entry  |  | 94.00, Thd, 60.00, 44.00 | M25 M32 PG21 | 1191 016 BD91 1191 016 BD92 0191 016 BD90 |
| Hood Top Entry HC  |  | 94.00, Thd, 76.50, 44.00 | M32 M40 PG21 PG29 | 1191 016 AD92 1191 016 AD93 0191 016 AD90 0191 016 AD91 |
| Protection Cover for Hood Thermoplastic  |  | 96, 45.8, 27.8, 43.8, 56, 3 | | 0191 016 P210 |
| Housing Bulkhead Mounting  |  | 4.50, 5.00, 103, 115.50, 22.00, 44.00, 30.00, 32.00, 46.00, 103, 32, 81, 35 | | 0191 016 PM54 |
| Housing Surface Mounting  |  | 15.00, 105.00, 117.00, 22.00, 44.00, 57.00, 45.00, 57.00 | M25 M32 PG21 M25 M32 PG21 | 1 Side Entry 1191 016 BE61 1191 016 BE62 0191 016 BE60 2 Side Entry 1191 016 BF61 1191 016 BF62 0191 016 BF60 |
| Housing Surface Mounting HC  |  | 15.00, 105.00, 117.00, 22.00, 44.00, 80.00, 45.00, 57.00 | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1191 016 AE62 1191 016 AE63 0191 016 AE60 0191 016 AE61 2 Side Entry 1191 016 AF62 1191 016 AF63 0191 016 AF60 0191 016 AF61 |


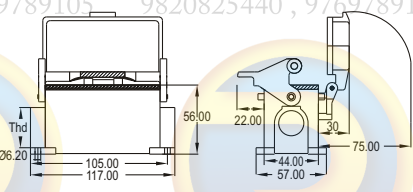

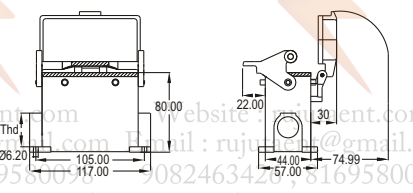
Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|------------------|--|---|
| Hood Side Entry with Clamp  |  | | M25 M32 PG21 | 9082463426, 8169580098, 9820825440, 9769789105 9082463426, 8169580098, 9820825440, 9769789105 9082463426, 8169580098, 9820825440, 9769789105 9082463426, 8169580098, 9820825440, 9769789105 1191 016 BC41 1191 016 BC42 0191 016 BC40 |
| Hood Side Entry HC with Clamp  |  | | M32 M40 PG21 PG29 | 1191 016 AC42 1191 016 AC43 0191 016 AC40 0191 016 AC41 |
| Hood Top Entry with Clamp  |  | | M25 M32 PG21 | 1191 016 BD41 1191 016 BD42 0191 016 BD40 |
| Hood Top Entry HC with Clamp  |  | | M32 M40 PG21 PG29 | 1191 016 AD42 1191 016 AD43 0191 016 AD40 0191 016 AD41 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  | | | 0191 016 PM51 |
| Housing Surface Mounting With Thermoplastic Cover  |  | | M25 M32 PG21 M25 M32 PG21 | 1 Side Entry 1191 016 BE71 1191 016 BE72 0191 016 BE70 2 Side Entry 1191 016 BF71 1191 016 BF72 0191 016 BF70 |
| Housing Surface Mounting HC With Thermoplastic Cover  |  | | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1191 016 AE72 1191 016 AE73 0191 016 AE70 0191 016 AE71 2 Side Entry 1191 016 AF72 1191 016 AF73 0191 016 AF70 0191 016 AF71 |
| Protection Cover for Housing Thermoplastic  |  | | | 0191 016 P010 |


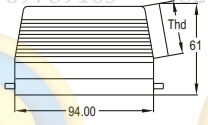
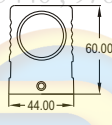

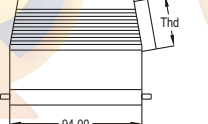
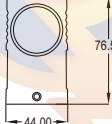

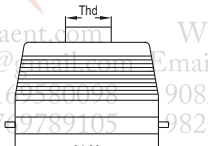
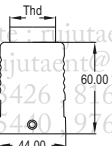

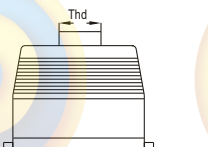
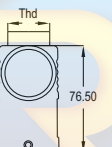

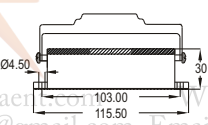
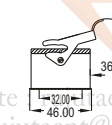

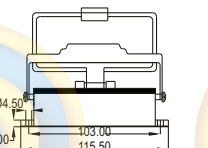
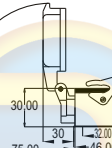

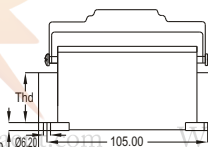
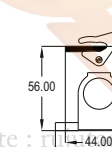

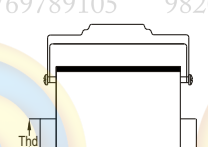
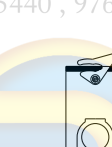
Standard Hoods / Housings (Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|---|--|--|
| Hood Side Entry  |  | 94.00, 44.00, 61, 60.00 | M25 M32 PG21 | 1191 016 BC81 1191 016 BC82 0191 016 BC80 |
| Hood Side Entry HC  |  | 94.00, 44.00, 76.50 | M32 M40 PG21 PG29 | 1191 016 AC82 1191 016 AC83 0191 016 AC80 0191 016 AC81 |
| Hood Top Entry  |  | 94.00, 44.00, 60.00 | M25 M32 PG21 | 1191 016 BD81 1191 016 BD82 0191 016 BD80 |
| Hood Top Entry HC  |  | 94.00, 44.00, 76.50 | M32 M40 PG21 PG29 | 1191 016 AD82 1191 016 AD83 0191 016 AD80 0191 016 AD81 |
| Housing Bulkhead Mounting  |  | 103, 115.50, 30.00, 22.00, 46.00, 32, 35, 81 | | 0191 016 PM43 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  | 103, 115.50, 30.00, 22.00, 46.00, 32, 35, 81, 75.00 | | 0191 016 PM44 |
| Housing Surface Mounting  |  | 105.00, 117.00, 56.00, 22.00, 44.00, 57.00 | M25 M32 PG21 M25 M32 PG21 | 1 Side Entry 1191 016 BE21 1191 016 BE22 0191 016 BE20 2 Side Entry 1191 016 BF21 1191 016 BF22 0191 016 BF20 |
| Housing Surface Mounting HC  |  | 105.00, 117.00, 80.00, 22.00, 44.00, 57.00 | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1191 016 AE22 1191 016 AE23 0191 016 AE20 0191 016 AE21 2 Side Entry 1191 016 AF22 1191 016 AF23 0191 016 AF20 0191 016 AF21 |


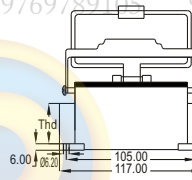
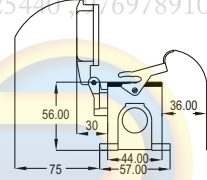

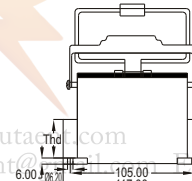
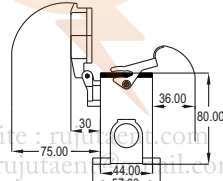
Standard Hoods / Housings (Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|---|--|
| <p>Housing Surface Mounting With Thermoplastic Cover</p>  |  | <p>Ø6.20 105.00 117.00 56.00 22.00 30 44.00 57.00 75.00</p> | <p>M25 M32 PG21 M25 M32 PG21</p> | <p>1 Side Entry 1191 016 BE01 1191 016 BE02 0191 016 BE00 2 Side Entry 1191 016 BF01 1191 016 BF02 0191 016 BF00</p> |
| <p>Housing Surface Mounting HC With Thermoplastic Cover</p>  |  | <p>Ø6.20 105.00 117.00 80.00 22.00 30 44.00 57.00 74.99</p> | <p>M32 M40 PG21 PG29 M32 M40 PG21 PG29</p> | <p>1 Side Entry 1191 016 AE02 1191 016 AE03 0191 016 AE00 0191 016 AE01 2 Side Entry 1191 016 AF02 1191 016 AF03 0191 016 AF00 0191 016 AF01</p> |

Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|--|--|
| Hood Side Entry  |  |  | M25 M32 PG21 | 1191 016 BC81 1191 016 BC82 0191 016 BC80 |
| Hood Side Entry HC  |  |  | M32 M40 PG21 PG29 | 1191 016 AC82 1191 016 AC83 0191 016 AC80 0191 016 AC81 |
| Hood Top Entry  |  |  | M25 M32 PG21 | 1191 016 BD81 1191 016 BD82 0191 016 BD80 |
| Hood Top Entry HC  |  |  | M32 M40 PG21 PG29 | 1191 016 AD82 1191 016 AD83 0191 016 AD80 0191 016 AD81 |
| Housing Bulkhead Mounting  |  |  | | 0191 016 PM52 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  |  | | 0191 016 PM55 |
| Housing Surface Mounting  |  |  | M25 M32 PG21 M25 M32 PG21 | 1 Side Entry 1191 016 BE91 1191 016 BE92 0191 016 BE90 2 Side Entry 1191 016 BF91 1191 016 BF92 0191 016 BF90 |
| Housing Surface Mounting HC  |  |  | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1191 016 AE92 1191 016 AE93 0191 016 AE90 0191 016 AE91 2 Side Entry 1191 016 AF92 1191 016 AF93 0191 016 AF90 0191 016 AF91 |


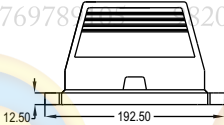
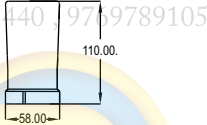

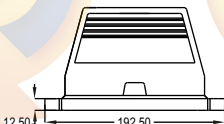
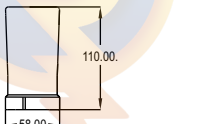

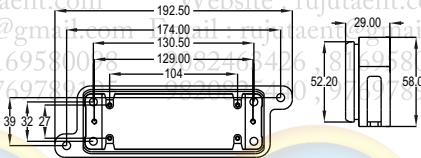
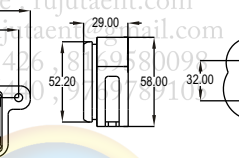

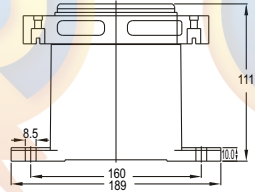
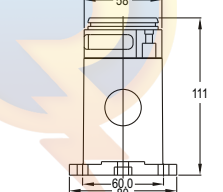

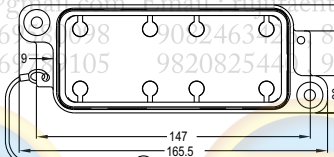
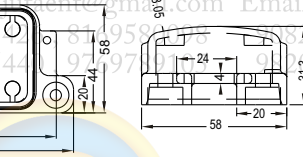
Standard Hoods / Housings (Metal Single / Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|---|---|
| <p>8 Housing Surface Mounting With Thermoplastic Cover</p>  |  |  | <p>M25 M32 PG21</p> <p>M25 M32 PG21</p> | <p>1 Side Entry 1191 016 BE31 1191 016 BE32 0191 016 BE30</p> <p>2 Side Entry 1191 016 BF31 1191 016 BF32 0191 016 BF30</p> |
| <p>9 Housing Surface Mounting HC with Thermoplastic Cover</p>  |  |  | <p>M32 M40 PG21 PG29</p> <p>M32 M40 PG21 PG29</p> | <p>1 Side Entry 1191 016 AE32 1191 016 AE33 0191 016 AE30 0191 016 AE31</p> <p>2 Side Entry 1191 016 AF32 1191 016 AF33 0191 016 AF30 0191 016 AF31</p> |

SIZE 16B HPR

indoelectricals.com


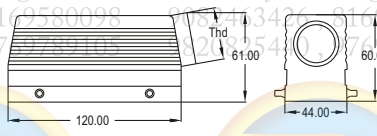

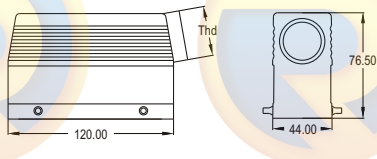

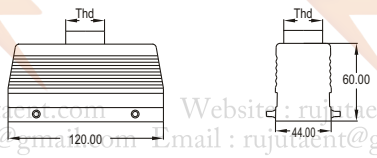

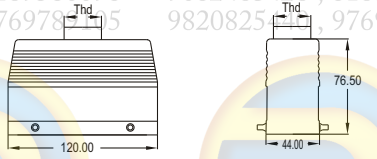

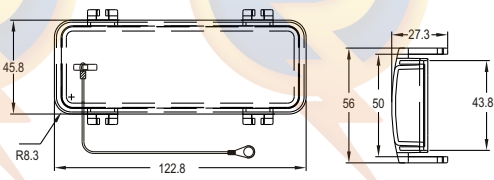

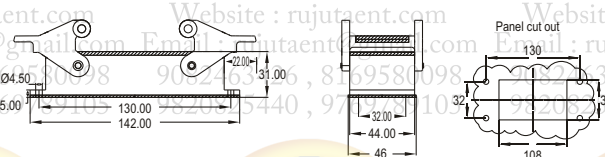

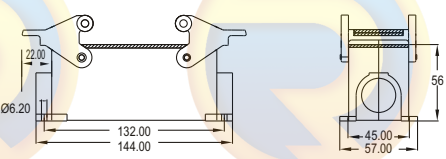
Standard Hoods / Housings

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|--|--|--|
| Hood HPR  |  |  | M32 M40 PG21 PG29 | 1171 016 AC02 1171 016 AC03 0171 016 AC00 0171 016 AC01 |
| Hood Top Entry HPR  |  |  | M32 M40 PG21 PG29 | 1171 016 AD02 1171 016 AD03 0171 016 AD00 0171 016 AD01 |
| Housing Bulkhead Mounting HPR  |  |  | | 0171 016 PM53 |
| Housing Surface Mounting HPR  |  |  | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1171 016 AE82 1171 016 AE83 0171 016 AE80 0171 016 AE81 2 Side Entry 1171 016 AF82 1171 016 AF83 0171 016 AF80 0171 016 AF81 |
| Protection Cover for Metal HPR  |  |  | | 0171 016 M032 |


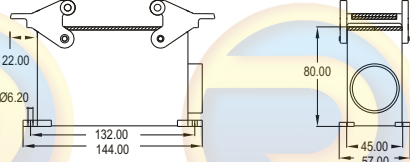

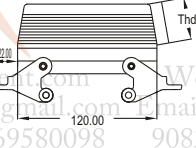

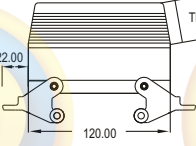

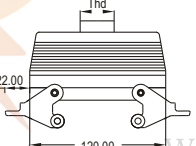

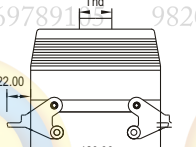

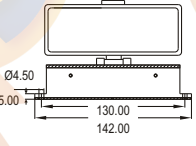
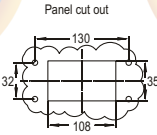

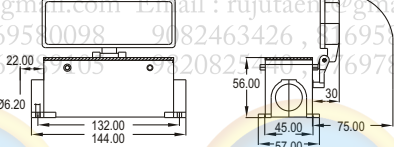
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No. of. Pin | Page No. |
|-----------------------|---------------------------|-------------------|-------------|----------|
| ICO A 0098 | Screw Terminal | 16A 500V | 24+ Ⓟ | 13 |
| ICO AA | Screwless Spring Terminal | 16A 500V | 24+ Ⓟ | 13 |
| ICO AB | Crimp Terminal | 16A 500V | 24+ Ⓟ | 13 |
| ICO ABS | Crimp Terminal | 16A 500V | 46+ Ⓟ | 22 |
| ICO ABE | Crimp Terminal | 16A 500V | 64+ Ⓟ | 28 |
| ICO D | Crimp Terminal | 10 A-250V | 64+ Ⓟ | 46 |
| ICO DD | Crimp Terminal | 10 A-250V | 108+ Ⓟ | 54 |
| ICO E | Screw Terminal | 80A-830V/16A-400V | 4/8+ Ⓟ | 65 |


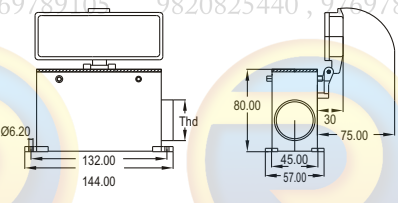

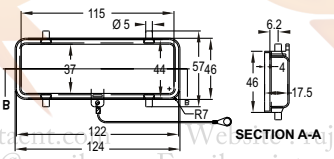

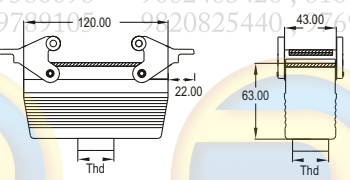

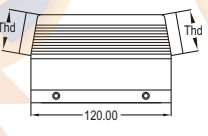

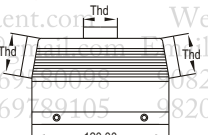

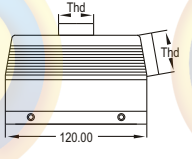
(Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|--|--------------------------------|--|
| Hood Side Entry |  |  | M32 PG21 | 1191 024 BC12 0191 024 BC10 |
| Hood Side Entry HC |  |  | M32 M40 PG21 PG29 | 1191 024 AC12 1191 024 AC13 0191 024 AC10 0191 024 AC11 |
| Hood Top Entry |  |  | M32 PG21 PG29 | 1191 024 BD12 0191 024 BD10 0191 024 BD11 |
| Hood Top Entry HC |  |  | M32 M40 PG21 PG29 | 1191 024 AD12 1191 024 AD13 0191 024 AD10 0191 024 AD11 |
| Protection Cover for Hood Thermoplastic |  |  | | 0191 024 P210 |
| Housing Bulkhead Mounting |  |  | | 0191 024 PM40 |
| Housings Surface Mounting |  |  | M32 PG21 M32 PG21 | 1 Side Entry 1191 024 BE12 0191 024 BE10 2 Side Entry 1191 024 BF12 0191 024 BF10 |


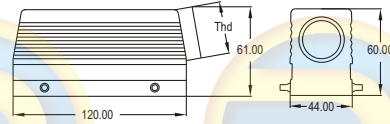

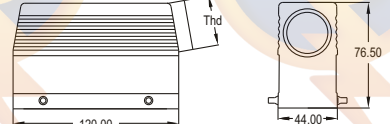



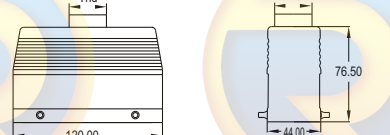

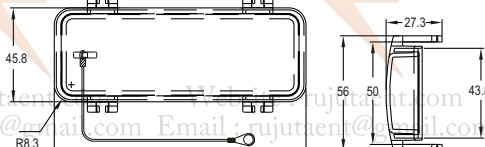

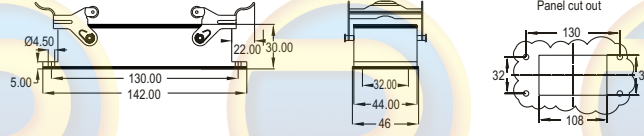

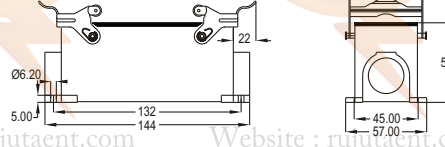

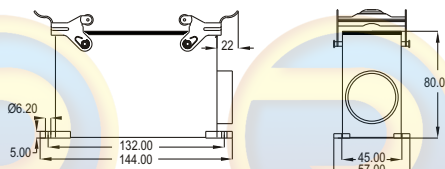
Standard Hoods / Housings (Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|--|--|--|
| Housings Surface Mounting HC  |  | | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1191 024 AE12 1191 024 AE13 0191 024 AE10 0191 024 AE11 2 Side Entry 1191 024 AF12 1191 024 AF13 0191 024 AF10 0191 024 AF11 |
| Hood Side Entry with Clamp  |  | | M32 PG21 | 1191 024 BC22 0191 024 BC20 |
| Hood Side Entry HC with Clamp  |  | | M32 M40 PG21 PG29 | 1191 024 AC22 1191 024 AC23 0191 024 AC20 0191 024 AC21 |
| Hood Top Entry with Clamp  |  | | M32 PG21 PG29 | 1191 024 BD22 0191 024 BD20 0191 024 BD21 |
| Hood Top Entry HC with Clamp  |  | | M32 M40 PG21 PG29 | 1191 024 AD22 1191 024 AD23 0191 024 AD20 0191 024 AD21 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  |  | | 0191 024 PM45 |
| Housings Surface Mounting With Thermoplastic Cover  |  | | M32 PG21 M32 PG21 | 1 Side Entry 1191 024 BE42 0191 024 BE40 2 Side Entry 1191 024 BF42 0191 024 BF40 |


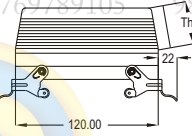

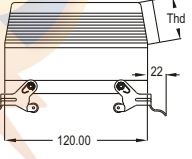

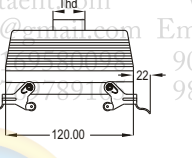

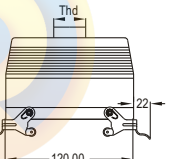

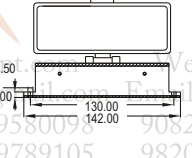
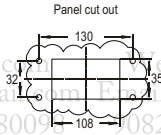

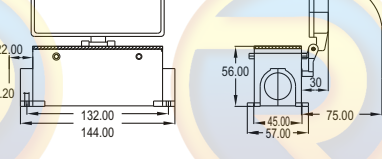

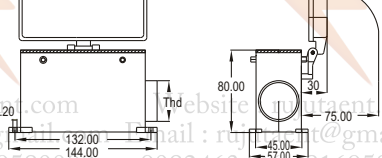
Standard Hoods / Housings (Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|------------------|---|---|
| <p>Housings Surface Mounting HC With Thermoplastic Cover</p>  |  | | <p>M32 M40 PG21 PG29</p> <p>M32 M40 PG21 PG29</p> | <p>1 Side Entry 1191 024 AE42 1191 024 AE43 0191 024 AE40 0191 024 AE41</p> <p>2 Side Entry 1191 024 AF42 1191 024 AF43 0191 024 AF40 0191 024 AF41</p> |
| <p>Protection Cover for Housing Thermoplastic</p>  |  | | | <p>0191 024 P010</p> |
| <p>Hood Cable to Cable</p>  |  | | <p>M32 PG21</p> | <p>1191 024 BM12 0191 024 BM10</p> |
| <p>Hood Two Side Entry</p>  |  | | <p>M32 PG21</p> | <p>1191 024 BG12 0191 024 BG10</p> |
| <p>Hood Three Side Entry</p>  |  | | <p>M32 PG21</p> | <p>1191 024 BH12 0191 024 BH10</p> |
| <p>Hood HC One Top Entry and One Side Entry</p>  |  | | <p>M32 M40 PG21 PG29</p> | <p>1191 024 AJ12 1191 024 AJ13 0191 024 AJ10 0191 024 AJ11</p> |


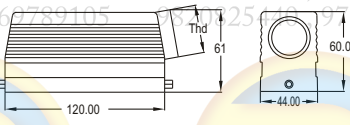
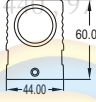

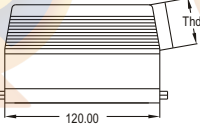
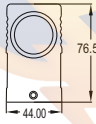

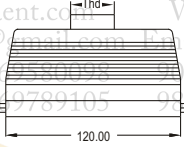
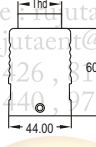

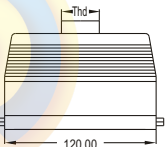
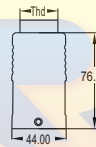

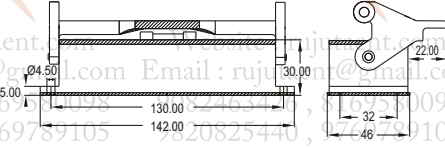
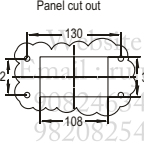

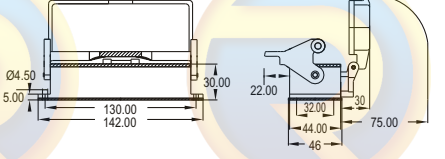
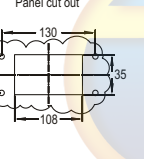

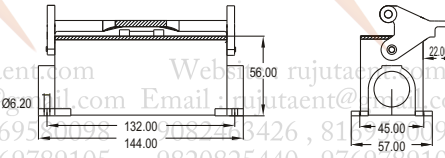
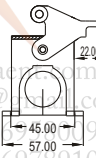
Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|---|----------------------------|--|
| Hood Side Entry  |  | 120.00, 61.00, 60.00, 44.00, Thd. | M32 PG21 | 1191 024 BC92 0191 024 BC90 |
| Hood Side Entry HC  |  | 120.00, 76.50, 44.00, Thd. | M32 M40 PG21 PG29 | 1191 024 AC92 1191 024 AC93 0191 024 AC90 0191 024 AC91 |
| Hood Top Entry  |  | 120.00, 60.00, 44.00, Thd. | M32 PG21 PG29 | 1191 024 BD92 0191 024 BD90 0191 024 BD91 |
| Hood Top Entry HC  |  | 120.00, 76.50, 44.00, Thd. | M32 M40 PG21 PG29 | 1191 024 AD92 1191 024 AD93 0191 024 AD90 0191 024 AD91 |
| Protection Cover for Hood Thermoplastic  |  | 45.8, 122.8, 27.3, 56, 50, 43.8, R8.3 | | 0191 024 P210 |
| Housing Bulkhead Mounting  |  | Ø4.50, 5.00, 130.00, 142.00, 22.00, 30.00, 32.00, 44.00, 46, 130, 32, 35, 106 | | 0191 024 PM54 |
| Housings Surface Mounting  |  | Ø6.20, 5.00, 132, 144, 22, 56, 45.00, 57.00 | M32 PG21 | 1 Side Entry 1191 024 BE62 0191 024 BE60 |
| Housings Surface Mounting HC  |  | Ø6.20, 5.00, 132.00, 144.00, 22, 80.00, 45.00, 57.00 | M32 M40 PG21 PG29 | 2 Side Entry 1191 024 BF62 0191 024 BF60 |
| | | | M32 M40 PG21 PG29 | 1 Side Entry 1191 024 AE62 1191 024 AE63 0191 024 AE60 0191 024 AE61 2 Side Entry 1191 024 AF62 1191 024 AF63 0191 024 AF60 0191 024 AF61 |


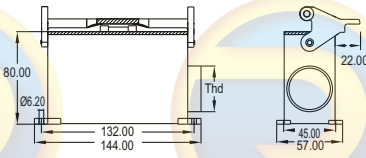

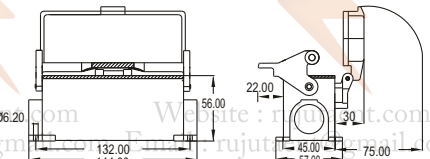

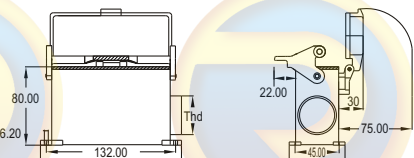
Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|---|--|--|
| Hood Side Entry with Clamp  |  | 120.00, 22, 60.00, 44.00 | M32 PG21 | 1191 024 BC42 0191 024 BC40 |
| Hood Side Entry HC with Clamp  |  | 120.00, 22, 76.50, 44.00 | M32 M40 PG21 PG29 | 1191 024 AC42 1191 024 AC43 0191 024 AC40 0191 024 AC41 |
| Hood Top Entry with Clamp  |  | 120.00, 22, 60.00, 44.00 | M32 PG21 PG29 | 1191 024 BD42 0191 024 BD40 0191 024 BD41 |
| Hood Top Entry HC with Clamp  |  | 120.00, 22, 76.50, 44.00 | M32 M40 PG21 PG29 | 1191 024 AD42 1191 024 AD43 0191 024 AD40 0191 024 AD41 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |   | 5.00, 130.00, 142.00, 32, 30, 75.00, 46 | | 0191 024 PM51 |
| Housings Surface Mounting With Thermoplastic Cover  |  | 22.00, 132.00, 144.00, 56.00, 45.00, 57.00, 75.00 | M32 PG21 M32 PG21 | 1 Side Entry 1191 024 BE72 0191 024 BE70 2 Side Entry 1191 024 BF72 0191 024 BF70 |
| Housings Surface Mounting HC With Thermoplastic Cover  |  | 132.00, 144.00, 80.00, 45.00, 57.00, 75.00 | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1191 024 AE72 1191 024 AE73 0191 024 AE70 0191 024 AE71 2 Side Entry 1191 024 AF72 1191 024 AF73 0191 024 AF70 0191 024 AF71 |




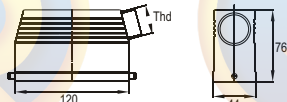



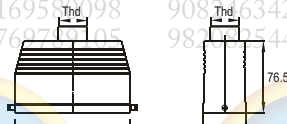

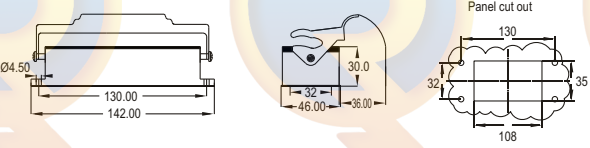

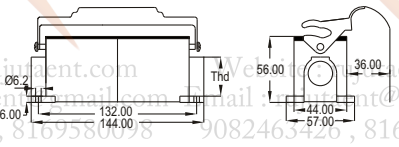

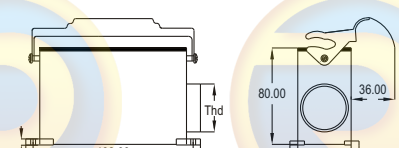

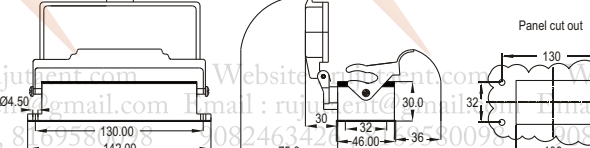

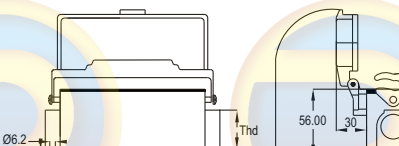
Standard Hoods / Housings (Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|--|----------------------------|--|
| Hood Side Entry  |  |  | M32 PG21 | 1191 024 BC82 0191 024 BC80 |
| Hood Side Entry HC  |  |  | M32 M40 PG21 PG29 | 1191 024 AC82 1191 024 AC83 0191 024 AC80 0191 024 AC81 |
| Hood Top Entry  |  |  | M32 PG21 PG29 | 1191 024 BD82 0191 024 BD80 0191 024 BD81 |
| Hood Top Entry HC  |  |  | M32 M40 PG21 PG29 | 1191 024 AD82 1191 024 AD83 0191 024 AD80 0191 024 AD81 |
| Housing Bulkhead Mounting  |  |  | | 0191 024 PM43 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  |  | | 0191 024 PM44 |
| Housing Surface Mounting  |  |  | M32 PG21 | 1 Side Entry 1191 024 BE22 0191 024 BE20 2 Side Entry 1191 024 BF22 0191 024 BF20 |

Standard Hoods / Housings (Plastic Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|--|--|--|--|
| Housing Surface Mounting HC  |  | 9082463426, 8169580098, 9820825440, 9769789105 | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1191 024 AE22 1191 024 AE23 0191 024 AE20 0191 024 AE21 2 Side Entry 1191 024 AF22 1191 024 AF23 0191 024 AF20 0191 024 AF21 |
| Housing Surface Mounting With Thermoplastic Cover  |  | 9082463426, 8169580098, 9820825440, 9769789105 | M32 PG21 M32 PG21 | 1 Side Entry 1191 024 BE02 0191 024 BE00 2 Side Entry 1191 024 BF02 0191 024 BF00 |
| Housing Surface Mounting HC With Thermoplastic Cover  |  | 9082463426, 8169580098, 9820825440, 9769789105 | M32 M40 PG29 M32 M40 PG29 | 1 Side Entry 1191 024 AE02 1191 024 AE03 0191 024 AE01 2 Side Entry 1191 024 AF02 1191 024 AF03 0191 024 AF01 |


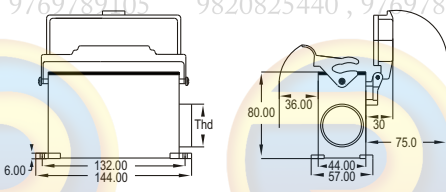

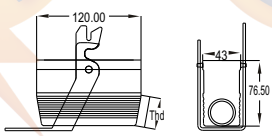

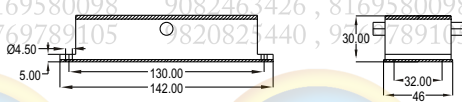
Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|------------------|--|--|
| Hood Side Entry  |  | | M32 PG21 | 1191 024 BC82 0191 024 BC80 |
| Hood Side Entry HC  |  | | M32 M40 PG21 PG29 | 1191 024 AC82 1191 024 AC83 0191 024 AC80 0191 024 AC81 |
| Hood Top Entry  |  | | M32 PG21 PG29 | 1191 024 BD82 0191 024 BD80 0191 024 BD81 |
| Hood Top Entry HC  |  | | M32 M40 PG21 PG29 | 1191 024 AD82 1191 024 AD83 0191 024 AD80 0191 024 AD81 |
| Housing Bulkhead Mounting  |  | | | 0191 024 PM52 |
| Housing Surface Mounting  |  | | M32 PG21 M32 PG21 | 1 Side Entry 1191 024 BE92 0191 024 BE90 2 Side Entry 1191 024 BF92 0191 024 BF90 |
| Housing Surface Mounting HC  |  | | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1191 024 AE92 1191 024 AE93 0191 024 AE90 0191 024 AE91 2 Side Entry 1191 024 AF92 1191 024 AF93 0191 024 AF90 0191 024 AF91 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  | | | 0191 024 PM55 |
| Housing Surface Mounting With Thermoplastic Cover  |  | | M32 PG21 M32 PG21 | 1 Side Entry 1191 024 BE32 0191 024 BE30 2 Side Entry 1191 024 BF32 0191 024 BF30 |

SIZE 24B


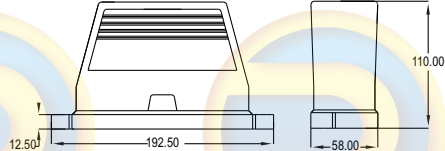

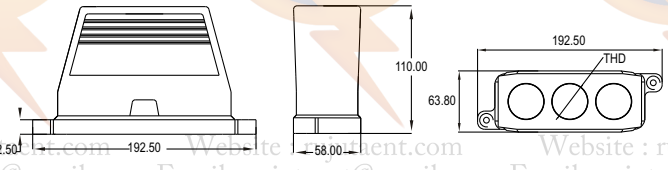

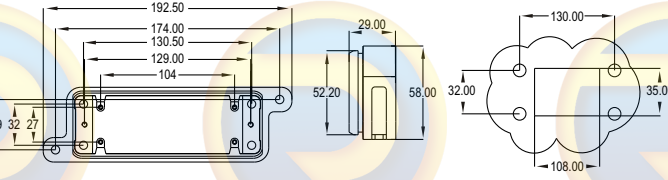

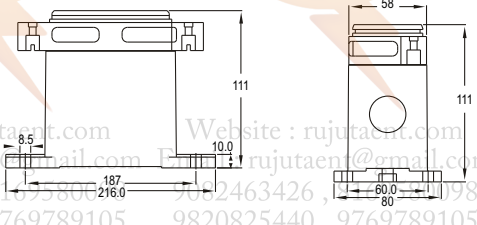

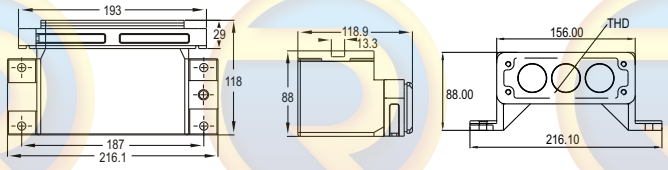

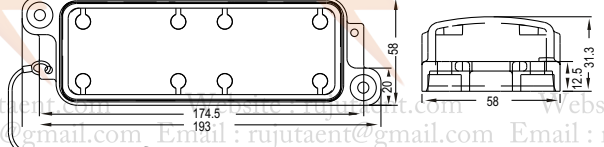
indoelectricals.com

Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|--------------------------------------|--|
| <p>Housing Surface Mounting HC with Thermoplastic Cover</p>  |  | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>M32 M40 PG21 PG29</p> | <p>1 Side Entry 1191 024 AE32 1191 024 AE33 0191 024 AE30 0191 024 AE31 2 Side Entry 1191 024 AF32 1191 024 AF33 0191 024 AF30 0191 024 AF31</p> |
| <p>Hood Side Entry HC with Clamp</p>  |  | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>PG29</p> | <p>0191 024 AC71</p> |
| <p>Housing Bulkhead Mounting</p>  |  | <p>9082463426, 8169580098, 9820825440, 9769789105</p> | <p>PG29</p> | <p>0191 024 PM48</p> |

SIZE 24B HPR


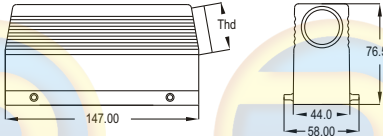



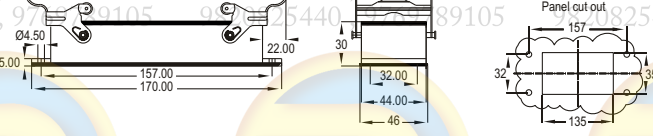

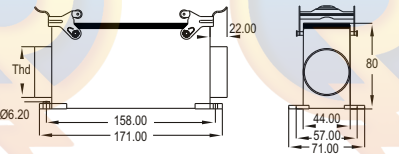

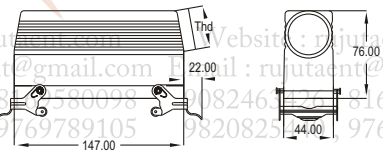

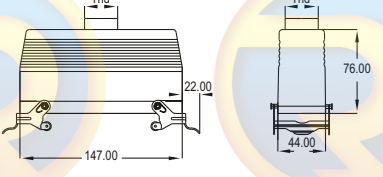

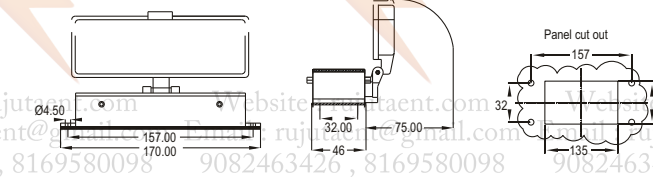

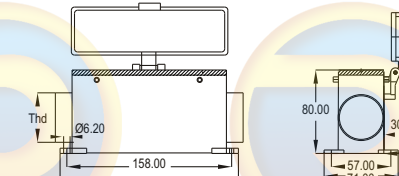
Standard Hoods / Housings

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|--|--|--|
| Hood HPR  |  | 12.50, 192.50, 58.00, 110.00 | M32 M40 M50 PG21 PG29 | 1171 024 AC02 1171 024 AC03 1171 024 AC04 0171 024 AC00 0171 024 AC01 |
| Hood Top Entry HPR  |  | 12.50, 192.50, 58.00, 110.00, 63.80, 192.50, THD | M20X3 M25X3 M32 M40 M50 PG21 PG29 | 1171 024 AO00 1171 024 AO01 1171 024 AD02 1171 024 AD03 1171 024 AD04 0171 024 AD00 0171 024 AD01 |
| Housing Bulkhead Mounting HPR  |  | 192.50, 174.00, 130.50, 129.00, 104, 39, 32, 27, 52.20, 29.00, 58.00, 130.00, 32.00, 35.00, 108.00 | | 0171 024 PM53 |
| Housing Surface Mounting HPR  |  | 8.5, 10.0, 187, 216.0, 58, 111, 60.0, 80.0 | M32 M40 PG21 PG29 M32 M40 PG21 PG29 | 1 Side Entry 1171 024 AE82 1171 024 AE83 0171 024 AE80 0171 024 AE81 2 Side Entry 1171 024 AF82 1171 024 AF83 0171 024 AF80 0171 024 AF81 |
| Housing Horizontal Mounting HPR  |  | 193, 29, 118, 187, 216.1, 110.9, 13.3, 88, 156.0, THD, 88.00, 216.10 | M25X3 M32 M40 M50 PG21 PG29 | 1171 024 CU81 1171 024 CS82 1171 024 CS83 1171 024 CS84 0171 024 CS80 0171 024 CS81 |
| Protection Cover for Metal HPR  |  | 174.5, 193, 58, 31.3, 4.5, 13 | | 0171 024 M032 |


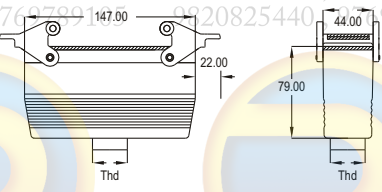

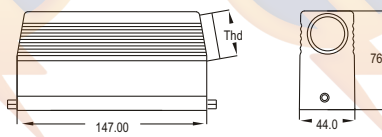

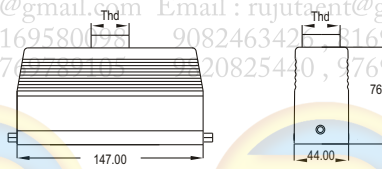

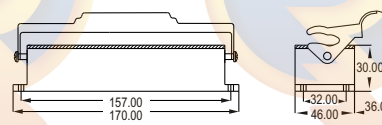
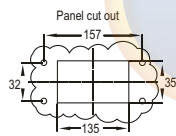

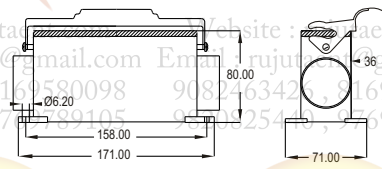

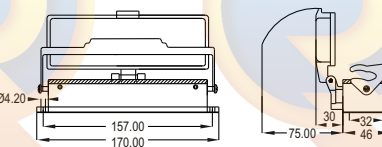
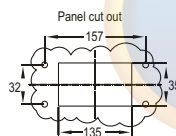

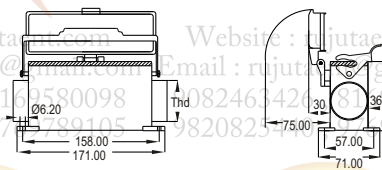

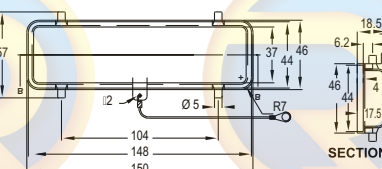
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No of. Pin | Page No. |
|---|------------------|------------------|--------------------------------|--|
| ICOA (Plastic Double Lever) | Screw Terminal | 16A 500V | 32+ | 14 |
| Identification | Drawing | Dimension in mm. | Thread | Part No. |
| Hood Side Entry | | | M40 PG29 | 1193 032 BC13 0193 032 BC11 |
| Hood Top Entry | | | M40 PG29 | 1193 032 BD13 0193 032 BD11 |
| Housing Bulkhead Mounting | | | | 0193 032 PM40 |
| Housing Surface Mounting | | | M40 PG29 M40 PG29 | 1 Side Entry 1193 032 BE13 0193 032 BE11 2 Side Entry 1193 032 BF13 0193 032 BF11 |
| Hood Side Entry with Clamp | | | M40 PG29 | 1193 032 BC23 0193 032 BC21 |
| Hood Top Entry with Clamp | | | M40 PG29 | 1193 032 BD23 0193 032 BD21 |
| Housing Bulkhead Mounting With Thermoplastic Cover | | | | 0193 032 PM45 |
| Housing Surface Mounting With Thermoplastic Cover | | | M40 PG29 M40 PG29 | 1 Side Entry 1193 032 BE43 0193 032 BE41 2 Side Entry 1193 032 BF43 0193 032 BF41 |

Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|---|--------------------------------|--|
| Hood Side Entry  |  | 147.00, 76.50, 44.0, 58.00 | M40 PG29 | 1193 032 BC93 0193 032 BC91 |
| Hood Top Entry  |  | 147.00, 76.5, 44.00, 58 | M40 PG29 | 1193 032 BD93 0193 032 BD91 |
| Housing Bulkhead Mounting  |  | 157.00, 170.00, 22.00, 30, 32.00, 44.00, 46, 157, 32, 35, 135 | | 0193 032 PM54 |
| Housing Surface Mounting  |  | 158.00, 171.00, 22.00, 80, 44.00, 57.00, 71.00, 06.20 | M40 PG29 M40 PG29 | 1 Side Entry 1193 032 BE63 0193 032 BE61 2 Side Entry 1193 032 BF63 0193 032 BF61 |
| Hood Side Entry with Clamp  |  | 147.00, 76.00, 22.00, 44.00 | M40 PG29 | 1193 032 BC43 0193 032 BC41 |
| Hood Top Entry with Clamp  |  | 147.00, 76.00, 22.00, 44.00 | M40 PG29 | 1193 032 BD43 0193 032 BD41 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  | 157.00, 170.00, 22.00, 30, 32.00, 46, 157, 32, 35, 135 | | 0193 032 PM51 |
| Housing Surface Mounting With Thermoplastic Cover  |  | 158.00, 171.00, 22.00, 80.00, 30, 57.00, 71.00, 75.00, 06.20 | M40 PG29 M40 PG29 | 1 Side Entry 1193 032 BE73 0193 032 BE71 2 Side Entry 1193 032 BF73 0193 032 BF71 |


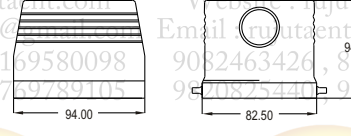
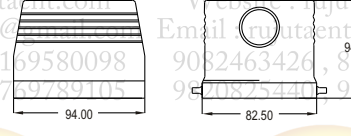

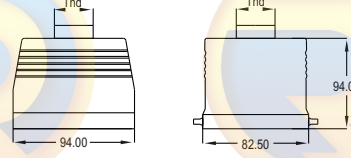
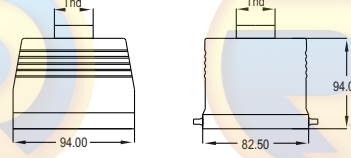

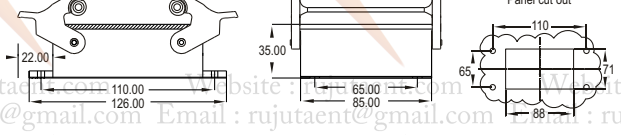
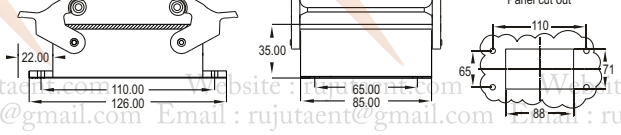

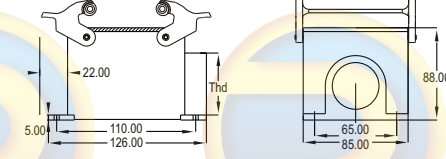
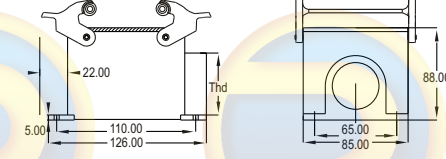

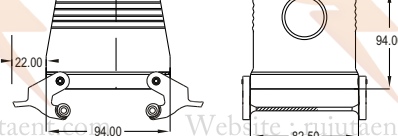
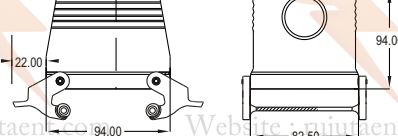

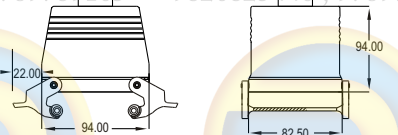
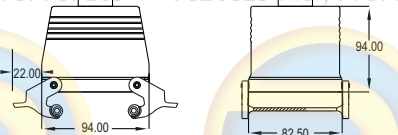
Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|--|--------------------------------|--|
| Hood Cable to Cable  |  | | M40 PG29 | 1193 032 BM13 0193 032 BM11 |
| Hood Side Entry  |  | | M40 PG29 | 1193 032 BC83 0193 032 BC81 |
| Hood Top Entry  |  | | M40 PG29 | 1193 032 BD83 0193 032 BD81 |
| Housing Bulkhead Mounting  |  |  | | 0193 032 PM52 |
| Housing Surface Mounting  |  | | M40 PG29 M40 PG29 | 1 Side Entry 1193 032 BE93 0193 032 BE91 2 Side Entry 1193 032 BF93 0193 032 BF91 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  |  | | 0193 032 PM55 |
| Housing Surface Mounting With Thermoplastic Cover  |  | | M40 PG29 M40 PG29 | 1 Side Entry 1193 032 BE33 0193 032 BE31 2 Side Entry 1193 032 BF33 0193 032 BF31 |
| Protection Cover for Housing Thermoplastic  |  | | | 0193 032 P010 |

Standard Hoods / Housings for below insert (Male / Female)


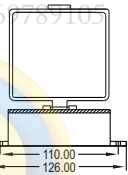
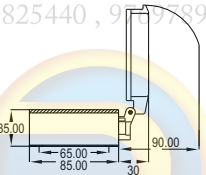

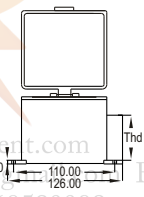
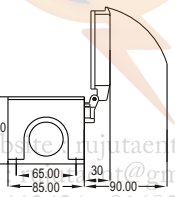
| Inserts (Male/Female) | Type of terminal | Rating | No. of. Pin | Page No. |
|-----------------------|---------------------------|-----------|---------------|----------|
| ICO A | Screw Terminal | 16A 500V | 32(16x2)+ ♂ | 15 |
| ICO AA | Screwless Spring Terminal | 16A 500V | 32(16x2)+ ♂ | 15 |
| ICO AB | Crimp Terminal | 16A 500V | 32(16x2)+ ♂ | 15 |
| ICO ABS | Crimp Terminal | 16A 500V | 64 (32x2)+ ♂ | 23 |
| ICO D | Crimp Terminal | 10 A-250V | 80 (40x2)+ ♂ | 47 |
| ICO DD | Crimp Terminal | 10 A-250V | 144 (72x2)+ ♂ | 55 |
| ICO B | Screw Terminal | 35 A-690V | 12 (6x2)+ ♂ | 60 |

(Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|--|--|--|--|
| Hood Side Entry  |  |  | M32 M40 PG29 PG36 | 1191 032 BC12 1191 032 BC13 0191 032 BC11 0191 032 BC15 |
| Hood Top Entry  |  |  | M32 M40 PG29 PG36 | 1191 032 BD12 1191 032 BD13 0191 032 BD11 0191 032 BD15 |
| Housing Bulkhead Mounting  |  |  | | 0191 032 PM40 |
| Housing Surface Mounting  |  |  | M32 M40 PG29 PG36 M32 M40 PG29 PG36 | 1 Side Entry 1191 032 BE12 1191 032 BE13 0191 032 BE11 0191 032 BE15 2 Side Entry 1191 032 BF12 1191 032 BF13 0191 032 BF11 0191 032 BF15 |
| Hood Side Entry with Clamp  |  |  | M32 M40 PG29 PG36 | 1191 032 BC22 1191 032 BC23 0191 032 BC21 0191 032 BC25 |
| Hood Top Entry with Clamp  |  |  | M32 M40 PG29 PG36 | 1191 032 BD22 1191 032 BD23 0191 032 BD21 0191 032 BD25 |


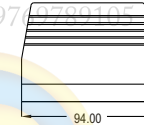
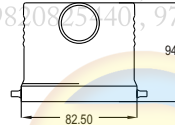

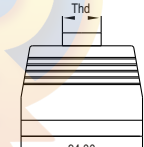
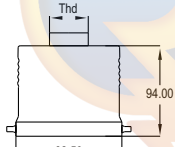

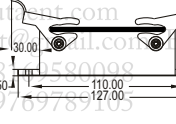
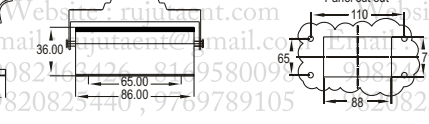

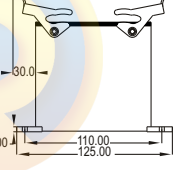
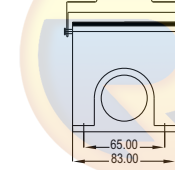

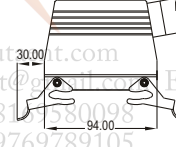
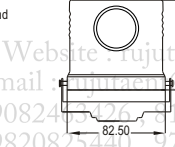

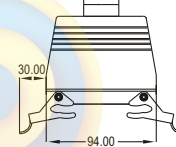
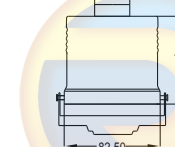

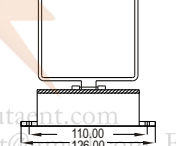
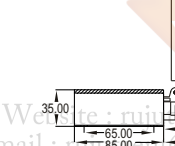

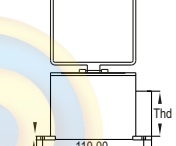
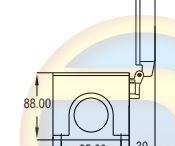
SIZE 32(16x2)B

Standard Hoods / Housings (Plastic Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|---|----------------------------|--|
| Housing Bulkhead Mounting With Thermoplastic Cover  |  |  | | 0191 032 PM45 |
| Housing Surface Mounting With Thermoplastic Cover  |  |  | M32 M40 PG29 PG36 | 1 Side Entry 1191 032 BE42 1191 032 BE43 0191 032 BE41 0191 032 BE45 2 Side Entry 1191 032 BF42 1191 032 BF43 0191 032 BF41 0191 032 BF45 |

SIZE 32(16x2)B


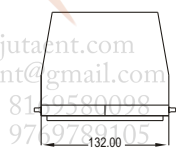
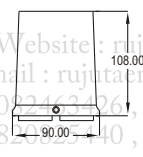

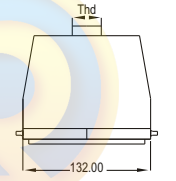
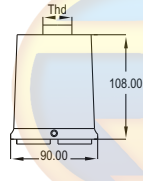

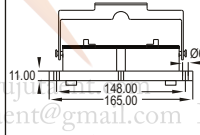
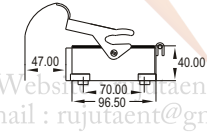

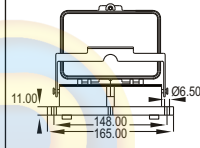
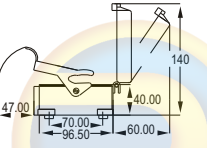

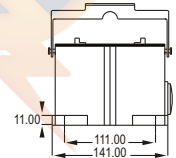
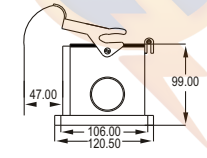

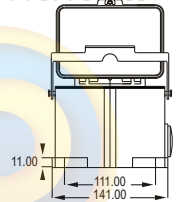
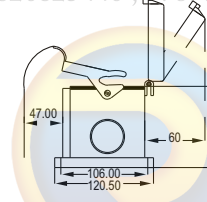
Standard Hoods / Housings (Metal Double Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|---|--|--|
| Hood Side Entry  |  |  | M32 M40 PG29 PG36 | 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 |
| Hood Top Entry  |  |  | M32 M40 PG29 PG36 | 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 |
| Housing Bulkhead Mounting  |  |  | | 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 |
| Housing Surface Mounting  |  |  | M32 M40 PG29 PG36 M32 M40 PG29 PG36 | 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 |
| Hood Side Entry with Clamp  |  |  | M32 M40 PG29 PG36 | 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 |
| Hood Top Entry with Clamp  |  |  | M32 M40 PG29 PG36 | 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 |
| Housing Bulkhead Mounting With Thermoplastic Cover  |  |  | | 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 |
| Housing Surface Mounting With Thermoplastic Cover  |  |  | M32 M40 PG29 PG36 M32 M40 PG29 PG36 | 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 9082463426, 8169580098 |


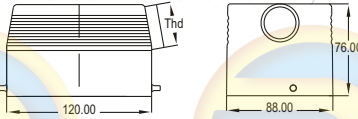

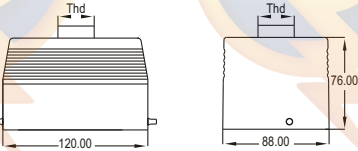

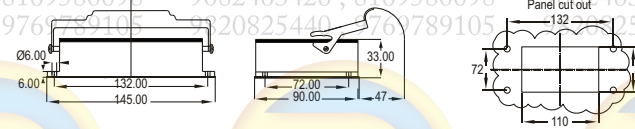

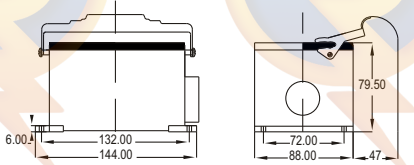

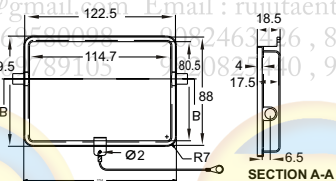
Standard Hoods / Housings for below insert (Male / Female)

| Inserts (Male/Female) | Type of terminal | Rating | No of. Pin | Page No. |
|-----------------------|---------------------------|-----------|----------------|----------|
| ICO A | Screw Terminal | 16A 500V | 48 (24x2)+ ⊕ | 16 |
| ICO AA | Screwless Spring Terminal | 16A 500V | 48 (24x2)+ ⊕ | 16 |
| ICO AB | Crimp Terminal | 16A 500V | 48 (24x2)+ ⊕ | 16 |
| ICO ABS | Crimp Terminal | 16A 500V | 92 (46x2)+ ⊕ | 24 |
| ICO D | Crimp Terminal | 10 A-250V | 128 (64x2)+ ⊕ | 48 |
| ICO DD | Crimp Terminal | 10 A-250V | 216 (108x2)+ ⊕ | 56 |

(Metal Single Lever)

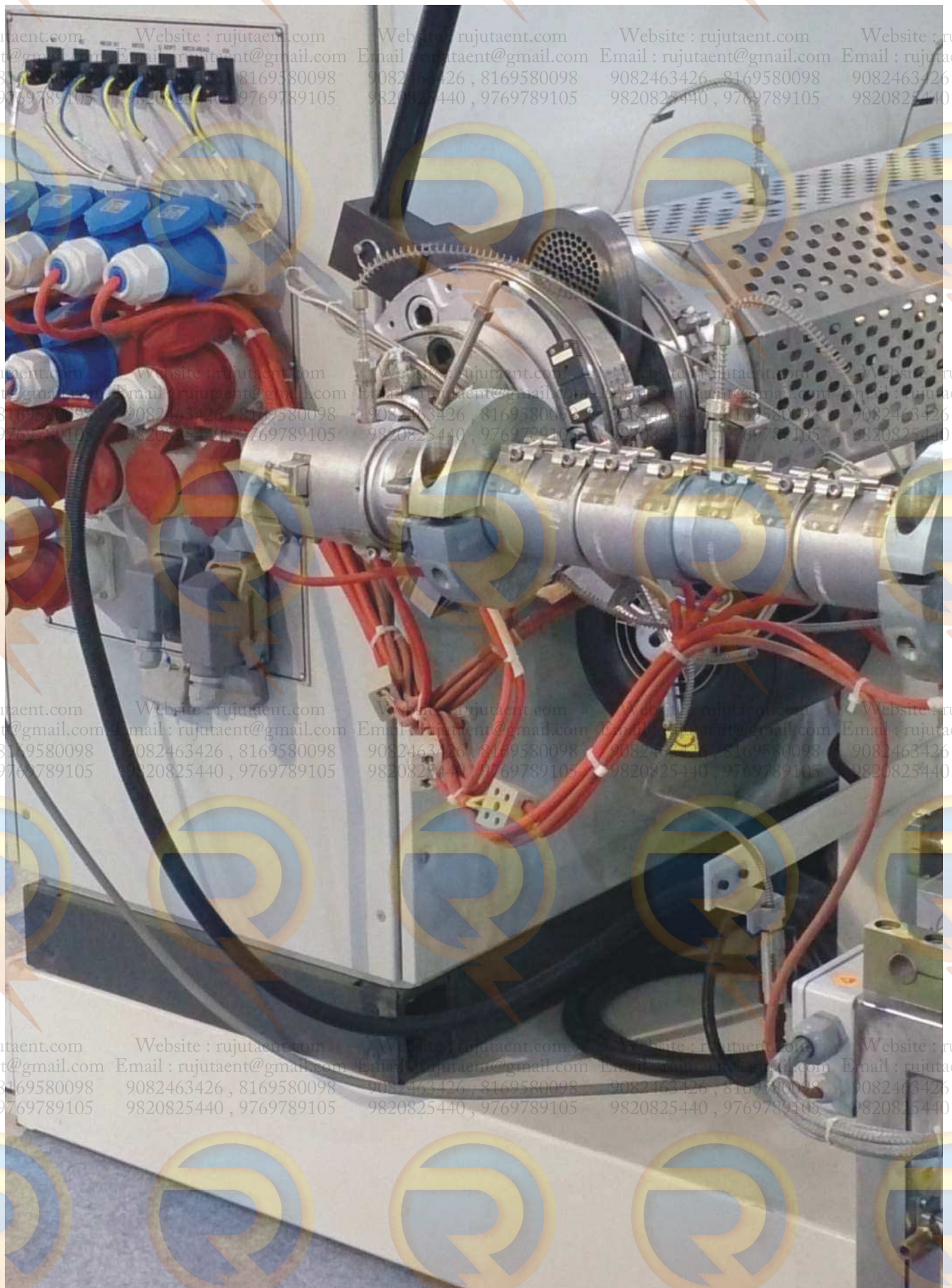
| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|--|---|---|----------------------------|--|
| Hood Side Entry HC  |  |  | M40 M50 PG29 PG36 | 1191 048 AC83 1191 048 AC84 0191 048 AC81 0191 048 AC85 |
| Hood Top Entry HC  |  |  | M40 M50 PG29 PG36 | 1191 048 AD83 1191 048 AD84 0191 048 AD81 0191 048 AD85 |
| Housing Bulkhead Mounting  |  |  | | 0191 048 PM46 |
| Housing Bulkhead Mounting with Thermoplastic Cover  |  |  | | 0191 048 PM47 |
| Housing Surface Mounting HC  |  |  | M40 M50 PG29 PG36 | 1 Side Entry 1191 048 AE93 1191 048 AE94 0191 048 AE91 0191 048 AE95 2 Side Entry 1191 048 AF93 1191 048 AF94 0191 048 AF91 0191 048 AF95 |
| Housing Surface Mounting HC with Thermoplastic Cover  |  |  | M40 M50 PG29 PG36 | 1 Side Entry 1191 048 AE33 1191 048 AE34 0191 048 AE31 0191 048 AE35 2 Side Entry 1191 048 AF33 1191 048 AF34 0191 048 AF31 0191 048 AF35 |

Standard Hoods / Housings (Metal Single Lever)

| Identification | Drawing | Dimension in mm. | Thread | Part No. |
|---|---|--|---------------------------------------|---|
| <p>Hood Side Entry</p>  |  | <p>120.00, 76.00, 88.00, Thd</p> | M40 PG29 | 1191 048 BC83 0191 048 BC81 |
| <p>Hood Top Entry</p>  |  | <p>120.00, 76.00, 88.00, Thd</p> | M40 PG29 | 1191 048 BD83 0191 048 BD81 |
| <p>Housing Bulkhead Mounting</p>  |  | <p>132.00, 145.00, 6.00, 72.00, 90.00, 47, 33.00, 132, 72, 110, 80</p> | | 0191 048 PM52 |
| <p>Housing Surface Mounting</p>  |  | <p>6.00, 132.00, 144.00, 72.00, 88.00, 47, 79.50</p> | M40 PG29 M40 M50 PG29 | 1 Side Entry 1191 048 BE93 0191 048 BE91 2 Side Entry 1191 048 BF93 1191 048 BF94 0191 048 BF91 |
| <p>Protection Cover for Housing Thermoplastic</p>  |  | <p>122.5, 114.7, 89.5, 88, 17.5, 18.5, 4, 6.5, R7, Ø2, SECTION A-A</p> | | 0191 048 P020 |


ACCESSORIES


indoelectricals.com




ACCESSORIES

indoelectricals.com

| Contact Removal Tool | Series | Application | Part No. |
|---|--------------------|------------------|---------------|
|  | for ICO D & ICO DD | for 10 Amps 250V | 0120 000 ET01 |

| Contact Removal Tool | Series | Application | Part No. |
|---|--------------------------------------|--------------------------------|---------------|
|  | for ICO AB, ICO ABS, ICO ABE, ICO AQ | for 16 Amps 500V, 16 Amps 400V | 0170 000 ET01 |

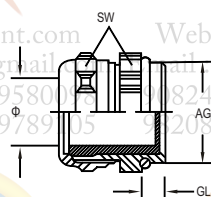
| Crimping Tool | Series | Application | Part No. |
|---|--|--|---------------|
|  | for ICO D, ICO DD, ICO AB, ICO ABS, ICO ABE & ICO AQ | for 10 Amps 250V, 16 Amps 500V, 16 Amps 400V | 0120 000 CT01 |

"IPAC MCG" Polyamide cable gland

indoelectricals.com

Material : Polyamide
 Sealing : NBR
 Degree of protection : IP65/IP68 (with O-ring)
 Temperature range : -40°C...+100°C

Website : rujutaent.com
 Email : rujutaent@gmail.com



| Thread size | Clamping range (Ø) | Thread diameter (AG) | Wrench size (SW) | Thread length (GL) | Part No. |
|----------------------|--------------------|----------------------|------------------|--------------------|---------------|
| PG Thread | | | | | |
| PG7 | 3-6.5 | 12.5 | 15 | 8.0 | 1000 MCG P101 |
| PG9 | 4-8 | 15.2 | 19 | 8.0 | 1000 MCG P102 |
| PG11 | 5-10 | 18.6 | 22 | 8.0 | 1000 MCG P103 |
| PG13.5 | 6-12 | 20.4 | 23.5 | 10 | 1000 MCG P104 |
| PG16 | 8-14 | 22.5 | 27 | 10 | 1000 MCG P105 |
| PG21 | 13-18 | 28.3 | 33 | 11 | 1000 MCG P106 |
| PG29 | 18-25 | 37.0 | 41.5 | 11 | 1000 MCG P107 |
| PG36 | 22-32 | 47.0 | 51.5 | 13 | 1000 MCG P108 |
| PG42 | 31-38 | 54.0 | 59 | 15 | 1000 MCG P109 |
| PG48 | 37-44 | 59.3 | 65 | 15 | 1000 MCG P100 |
| Metric Thread | | | | | |
| M12x1.5 | 3-6.5 | 12 | 15 | 8 | 1000 MCG P207 |
| M16x1.5 | 5-10 | 16 | 19 | 8 | 1000 MCG P208 |
| M20x1.5 | 5-12 | 20 | 23.5 | 8.5 | 1000 MCG P200 |
| M25x1.5 | 13-18 | 25 | 33 | 8 | 1000 MCG P201 |
| M32x1.5 | 18-21 | 32 | 42 | 10 | 1000 MCG P202 |
| M40x1.5 | 22-28 | 40 | 51 | 10 | 1000 MCG P203 |
| M50x1.5 | 31-36 | 50 | 58.5 | 12 | 1000 MCG P204 |
| M63x1.5 | 37-47 | 63 | 65 | 12 | 1000 MCG P205 |

"IPAC MMCG" Metal cable gland

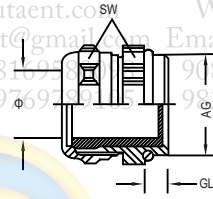
indoelectricals.com

Material : Nickel-plate brass

Sealing : Nylon and NBR

Degree of protection : IP65/P68 (with O-ring)

Temperature range : -40°C...+100°C



| Thread size | Clamping range (ø) | Thread diameter (AG) | Wrench size (SW) | Thread length (GL) | Part No. |
|----------------------|--------------------|----------------------|------------------|--------------------|---------------|
| PG Thread | | | | | |
| PG7 | 3-6.5 | 12.5 | 14 | 6 | 1000 MCG M101 |
| PG9 | 4-8 | 15.2 | 17 | 6.5 | 1000 MCG M102 |
| PG11 | 5-10 | 18.6 | 20 | 7 | 1000 MCG M103 |
| PG13.5 | 6-12 | 20.4 | 22 | 7.5 | 1000 MCG M104 |
| PG16 | 8-14 | 22.5 | 24 | 7 | 1000 MCG M105 |
| PG21 | 13-18 | 28.3 | 30 | 8 | 1000 MCG M106 |
| PG29 | 18-28 | 37.0 | 40 | 8 | 1000 MCG M107 |
| PG36 | 22-32 | 47.0 | 50 | 12 | 1000 MCG M108 |
| PG42 | 31-38 | 54.0 | 57 | 12 | 1000 MCG M109 |
| PG48 | 37-44 | 59.3 | 65 | 12 | 1000 MCG M100 |
| Metric Thread | | | | | |
| M12x1.5 | 3-6.5 | 12 | 14 | 6 | 1000 MCG M207 |
| M16x1.5 | 4-10 | 16 | 17 | 6.5 | 1000 MCG M208 |
| M20x1.5 | 6-14 | 20 | 22 | 8 | 1000 MCG M200 |
| M25x1.5 | 9-18 | 25 | 27 | 7.5 | 1000 MCG M201 |
| M32x1.5 | 15-25 | 32 | 35 | 8.5 | 1000 MCG M202 |
| M40x1.5 | 18-28 | 40 | 45 | 8.5 | 1000 MCG M203 |
| M50x1.5 | 22-35 | 50 | 57 | 12 | 1000 MCG M204 |
| M63x1.5 | 37-44 | 63 | 65 | 12 | 1000 MCG M205 |

"IPAC EMC" Metal EMC cable gland

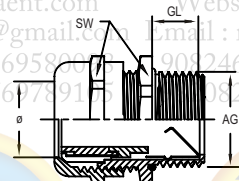
indoelectricals.com

Material : Nickel-plate brass

Sealing : Nylon and NBR

Degree of protection : IP65/IP68 (with O-ring)

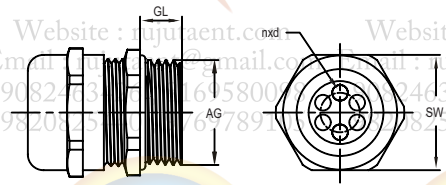
Temperature range : -40°C...+100°C, short-term 120°C



| Thread size | Clamping range (ø) | Thread diameter (AG) | Wrench size (SW) | Thread length (GL) | Part No. |
|----------------------|--------------------|----------------------|------------------|--------------------|---------------|
| PG Thread | | | | | |
| PG7 | 3-6.5 | 12.5 | 14 | 5 | 1000 EMC M101 |
| PG9 | 4-8 | 15.2 | 18 | 6 | 1000 EMC M102 |
| PG11 | 5-10 | 18.6 | 20 | 6 | 1000 EMC M103 |
| PG13.5 | 6-12 | 20.4 | 24 | 7 | 1000 EMC M104 |
| PG16 | 8-14 | 22.5 | 24 | 7 | 1000 EMC M105 |
| PG21 | 13-18 | 28.3 | 30 | 8 | 1000 EMC M106 |
| PG29 | 18-25 | 37.0 | 40 | 8 | 1000 EMC M107 |
| PG36 | 22-32 | 47.0 | 50 | 9 | 1000 EMC M108 |
| PG42 | 30-38 | 54.0 | 60 | 9 | 1000 EMC M109 |
| Metric Thread | | | | | |
| M12x1.5 | 3-6.5 | 12 | 14 | 5 | 1000 EMC M207 |
| M16x1.5 | 4-8 | 16 | 20 | 6 | 1000 EMC M208 |
| M20x1.5 | 6-12 | 20 | 24 | 7 | 1000 EMC M200 |
| M25x1.5 | 10-16 | 25 | 27 | 12 | 1000 EMC M201 |
| M32x1.5 | 15-22 | 32 | 40 | 13 | 1000 EMC M202 |
| M40x1.5 | 21-30 | 40 | 45 | 9 | 1000 EMC M203 |
| M50x1.5 | 30-38 | 50 | 55 | 9 | 1000 EMC M204 |
| M63x1.5 | 37-44 | 63 | 70 | 10 | 1000 EMC M205 |

"IPAC M" Metal cable gland with multi-ex indoelectricals.com

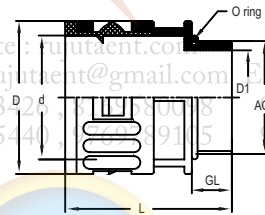
Material : Nickel-plate brass
 Sealing : Nylon and NBR
 Degree of protection : IP65/IP68 (with O- ring)
 Temperature range : -40°C...+100°C, short-term 120°C



| Thread size | Clamping range (ø) | Thread diameter (AG) | Wrench size (SW) | Thread length (GL) | Part No. |
|----------------------|--------------------|----------------------|------------------|--------------------|---------------|
| PG Thread | | | | | |
| PG9 | 2x3 | 19 | 17 | 6 | 1002 M03 M102 |
| PG21 | 4x6 | 33 | 30 | 7 | 1004 M06 M106 |
| PG21 | 3x7 | 33 | 30 | 7 | 1003 M07 M103 |
| PG21 | 2x6 | 33 | 30 | 9 | 1002 M06 M106 |
| PG21 | 2x7 | 33 | 30 | 8 | 1002 M07 M106 |
| PG21 | 2x8 | 33 | 30 | 7 | 1002 M08 M106 |
| PG29 | 4x9 | 40 | 40 | 8 | 1004 M09 M107 |
| PG36 | 5x9 | 50 | 50 | 9 | 1005 M09 M108 |
| Metric Thread | | | | | |
| M16x1.5 | 2x3 | 19 | 17 | 6 | 1002 M03 M208 |
| M20x1.5 | 6x3 | 24 | 22 | 8 | 1006 M03 M200 |
| M20x1.5 | 2x5 | 24 | 22 | 8 | 1002 M05 M200 |
| M25x1.5 | 2x7 | 33 | 30 | 8 | 1002 M07 M201 |
| M25x1.5 | 4x6 | 25 | 30 | 7 | 1004 M06 M201 |
| M25x1.5 | 3x7 | 25 | 30 | 7 | 1003 M07 M201 |
| M25x1.5 | 2x8 | 33 | 30 | 7 | 1002 M08 M201 |
| M32x1.5 | 4x9 | 44 | 40 | 8 | 1004 M09 M202 |
| M40x1.5 | 5x9 | 55 | 50 | 9 | 1005 M09 M203 |
| M40x1.5 | 2x15 | 55 | 50 | 9 | 1002 M15 M203 |

"IPAC FCG" Cable gland for flexible conduit indoelectricals.com

Material : Polyamide
 Sealing : Nylon and NBR
 Degree of protection : IP65
 Temperature range : -40°C...+100°C, short-term 120°C



| Thread size | Fits to tubing size(d) | Thread length (GL) | Bore(D1) | External diameter (D) | Total length (L) | Part No. |
|----------------------|------------------------|--------------------|----------|-----------------------|------------------|---------------|
| PG Thread | | | | | | |
| PG7 | AD10.0 | 9.5 | 7.5 | 17.0 | 34.5 | 1000 FCG P101 |
| PG9 | AD13.0 | 9.5 | 11.5 | 20.0 | 34.5 | 1000 FCG P102 |
| PG11 | AD15.8 | 9.5 | 14.0 | 23.0 | 36.0 | 1000 FCG P103 |
| PG13.5 | AD18.5 | 11.0 | 16.0 | 26.0 | 39.0 | 1000 FCG P104 |
| PG16 | AD21.2 | 13.0 | 18.0 | 29.5 | 44.0 | 1000 FCG P105 |
| PG21 | AD28.5 | 13.0 | 23.5 | 37.0 | 47.0 | 1000 FCG P106 |
| PG29 | AD34.5 | 11.5 | 30.5 | 43.5 | 47.5 | 1000 FCG P107 |
| PG36 | AD42.5 | 13.5 | 40.0 | 51.0 | 52.0 | 1000 FCG P108 |
| Metric Thread | | | | | | |
| M12x1.5 | AD10.0 | 1.0 | 8.0 | 17.0 | 34.5 | 1000 FCG P207 |
| M16x1.5 | AD13.0 | 9.5 | 11.5 | 20.0 | 34.5 | 1000 FCG P208 |
| M20x1.5 | AD18.5 | 11.0 | 16.0 | 26.0 | 39.0 | 1000 FCG P200 |
| M20x1.5 | AD21.2 | 13.0 | 15.0 | 29.5 | 44.0 | 1000 FCG P210 |
| M25x1.5 | AD21.2 | 13.0 | 18.0 | 29.5 | 44.5 | 1000 FCG P201 |
| M25x1.5 | AD28.5 | 13.0 | 20.5 | 37.0 | 47.0 | 1000 FCG P211 |
| M32x1.5 | AD28.5 | 13.0 | 24.0 | 37.0 | 47.0 | 1000 FCG P202 |
| M40x1.5 | AD34.5 | 11.0 | 30.0 | 43.5 | 48.0 | 1000 FCG P203 |
| M40x1.5 | AD42.5 | 13.5 | 33.5 | 51.0 | 52.0 | 1000 FCG P213 |
| M50x1.5 | AD54.5 | 13.5 | 42.5 | 63.5 | 53.5 | 1000 FCG P204 |
| M63x1.5 | AD54.5 | 14.0 | 55.0 | 63.5 | 53.5 | 1000 FCG P205 |

"IPAC" Polyamide Heavy Conduit

indoelectricals.com

site : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com Website : rujutaent.com
 rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com Email : rujutaent@gmail.com
 63426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098 9082463426 , 8169580098
 25440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105 9820825440 , 9769789105



Material : Polyamide 6
 Colour : Black & Grey
 Flame - Retardant : V0, HB (UL94)
 Degree of protection : IP68
 Temperature range : -40°C...+120°C, short-term+150°C

Properties : Flexible & Excellent Tenacity, Glossy surface, Heavy-wall, High mechanical strength, Wind resistant, Anti-friction, Resistant to oil, Acid & solvents, UV-Resistant, Insulated, Free of Halogen, Phosphor & cadmium.

Application : Heavy machine tool, Machine building, Heavy equipment, Metro, Port, Electric power plant, Electric locomotive etc.

| Size | ID (MM) | OD (MM) | STAT.R (MM) | DYN.R (MM) | Packing Meter /Roll | Part No. |
|--------|---------|---------|-------------|------------|---------------------|------------------|
| 1/4" | 6.0 | 10.0 | 15 | 30 | 200 | IPAC NL 206-H-10 |
| 5/16" | 9.5 | 13.0 | 20 | 40 | 100 | IPAC NL 206-H-13 |
| 3/8" | 11.5 | 15.8 | 30 | 50 | 100 | IPAC NL 206-H-16 |
| 1/2" | 15.5 | 21.2 | 40 | 70 | 100 | IPAC NL 206-H-21 |
| 3/4" | 21.5 | 28.5 | 50 | 100 | 100 | IPAC NL 206-H-28 |
| 1" | 27.5 | 34.5 | 60 | 120 | 50 | IPAC NL 206-H-34 |
| 1-1/4" | 35.5 | 42.5 | 80 | 150 | 25 | IPAC NL 206-H-42 |
| 2" | 46.0 | 54.5 | 100 | 180 | 25 | IPAC NL 206-H-54 |

"IPAC SCO" Polyamide plug

indoelectricals.com

Material : Polyamide
 Degree of protection : IP65/IP68 (with O-ring)
 Temperature range : -40°C...+120°C

Website : rujutaent.com

Website : rujutaent.com

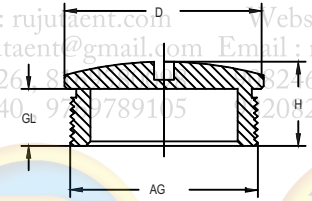
Website : rujutaent.com

Email : rujutaent@gmail.com
 9082463426 , 8169580098
 9820825440 , 9769789105

Email : rujutaent@gmail.com
 9082463426 , 8169580098
 9820825440 , 9769789105

Email : rujutaent@gmail.com
 9082463426 , 8169580098
 9820825440 , 9769789105

Email : rujutaent@gmail.com
 9082463426 , 8169580098
 9820825440 , 9769789105



| Thread size | Thread length (GL) | Height (H) | Thread diameter (AG) | External dimension(D) | Part No. |
|----------------------|--------------------|------------|----------------------|-----------------------|---------------|
| PG Thread | | | | | |
| PG7 | 6.0 | 10.0 | 12.5 | 15.5 | 1000 SCO P101 |
| PG9 | 6.0 | 10.0 | 15.2 | 18.5 | 1000 SCO P102 |
| PG11 | 8.0 | 11.5 | 18.6 | 22.0 | 1000 SCO P103 |
| PG13.5 | 8.0 | 11.5 | 20.4 | 24.0 | 1000 SCO P104 |
| PG16 | 8.0 | 12.0 | 22.5 | 27.0 | 1000 SCO P105 |
| PG21 | 7.0 | 12.5 | 28.3 | 33.0 | 1000 SCO P106 |
| PG29 | 8.0 | 12.0 | 37.0 | 43.0 | 1000 SCO P107 |
| PG36 | 10.0 | 14.0 | 47.0 | 55.0 | 1000 SCO P108 |
| PG42 | 11.0 | 15.5 | 54.0 | 62.0 | 1000 SCO P109 |
| PG48 | 12.0 | 16.0 | 59.3 | 68.5 | 1000 SCO P100 |
| Metric Thread | | | | | |
| M12x1.5 | 6.0 | 10.0 | 12.0 | 15.0 | 1000 SCO P207 |
| M16x1.5 | 5.5 | 10.0 | 16.0 | 18.5 | 1000 SCO P208 |
| M20x1.5 | 8.0 | 12.5 | 20.0 | 25.0 | 1000 SCO P200 |
| M25x1.5 | 7.5 | 12.5 | 25.0 | 29.5 | 1000 SCO P201 |
| M32x1.5 | 8.0 | 13.5 | 32.0 | 39.0 | 1000 SCO P202 |
| M40x1.5 | 11.0 | 15.0 | 40.0 | 48.0 | 1000 SCO P203 |
| M50x1.5 | 12.0 | 18.0 | 50.0 | 61.5 | 1000 SCO P204 |
| M63x1.5 | 12.5 | 19.0 | 63.0 | 70.5 | 1000 SCO P205 |

"IPAC MSCO" Metal plug

indoelectricals.com

Material : Nickel-plate brass

Degree of protection : IP65/IP68 (with O-ring)

Temperature range : -40°C...+120°C

Website : rujutaent.com

Email : rujutaent@gmail.com

9082463426, 8169580098
9820825440, 9769789105

Website : rujutaent.com

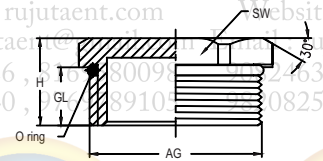
Email : rujutaent@gmail.com

9082463426, 8169580098
9820825440, 9769789105

Website : rujutaent.com

Email : rujutaent@gmail.com

9082463426, 8169580098
9820825440, 9769789105



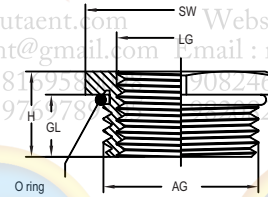
| Thread size | Thread length (GL) | Height (H) | Thread diameter (AG) | External dimension(D) | Part No. |
|----------------------|--------------------|------------|----------------------|-----------------------|---------------|
| PG Thread | | | | | |
| PG7 | 5 | 8 | 12.5 | 14 | 1000 SCO M101 |
| PG9 | 6 | 9 | 15.2 | 18 | 1000 SCO M102 |
| PG11 | 6 | 10 | 18.6 | 20 | 1000 SCO M103 |
| PG13.5 | 7 | 10 | 20.4 | 22 | 1000 SCO M104 |
| PG16 | 7 | 10 | 22.5 | 24 | 1000 SCO M105 |
| PG21 | 7 | 11 | 28.3 | 30 | 1000 SCO M106 |
| PG29 | 8 | 13 | 37.0 | 40 | 1000 SCO M107 |
| PG36 | 8 | 13 | 47.0 | 50 | 1000 SCO M108 |
| PG42 | 9 | 15 | 54.0 | 60 | 1000 SCO M109 |
| PG48 | 10 | 17 | 59.3 | 65 | 1000 SCO M100 |
| Metric Thread | | | | | |
| M12x1.5 | 5 | 8 | 12 | 14 | 1000 SCO M207 |
| M16x1.5 | 6 | 9 | 16 | 18 | 1000 SCO M208 |
| M20x1.5 | 6 | 10 | 20 | 22 | 1000 SCO M200 |
| M25x1.5 | 7 | 11 | 25 | 27 | 1000 SCO M201 |
| M32x1.5 | 7 | 11 | 32 | 34 | 1000 SCO M202 |
| M40x1.5 | 8 | 13 | 40 | 42 | 1000 SCO M203 |
| M50x1.5 | 9 | 13 | 50 | 54 | 1000 SCO M204 |
| M63x1.5 | 10 | 17 | 63 | 70 | 1000 SCO M205 |

"IPAC RED" Metal reducer

indoelectricals.com

Material : Nickel-plate brass

Temperature range : -40°C...+120°C

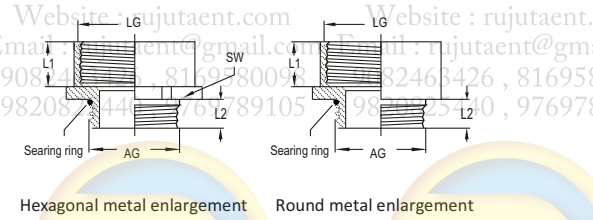


| Outside thread(AG) | Inside Thread (GL) | Thread length (GL) | Total length (H) | Wrench size (SW) | Part No. |
|----------------------|--------------------|--------------------|------------------|------------------|---------------|
| PG Thread | | | | | |
| PG9 | PG7 | 6.0 | 9 | 17 | 1000 RED M102 |
| PG11 | PG9 | 7.0 | 11 | 20 | 1000 RED M103 |
| PG13.5 | PG11 | 7.0 | 10 | 22 | 1000 RED M104 |
| PG16 | PG13.5 | 7.0 | 11 | 24 | 1000 RED M105 |
| PG21 | PG16 | 7.0 | 11 | 30 | 1000 RED M106 |
| PG29 | PG21 | 8.0 | 13 | 40 | 1000 RED M107 |
| PG36 | PG29 | 9.0 | 13 | 50 | 1000 RED M108 |
| PG42 | PG36 | 9.0 | 15 | 57 | 1000 RED M109 |
| PG48 | PG42 | 10.0 | 15 | 65 | 1000 RED M100 |
| Metric Thread | | | | | |
| M16x1.5 | M12x1.5 | 6.0 | 9 | 17 | 1000 RED M208 |
| M20x1.5 | M16x1.5 | 7.0 | 10 | 22 | 1000 RED M200 |
| M25x1.5 | M20x1.5 | 7.0 | 10 | 27 | 1000 RED M201 |
| M32x1.5 | M25x1.5 | 8.0 | 11.5 | 35 | 1000 RED M202 |
| M40x1.5 | M32x1.5 | 8.5 | 13 | 42 | 1000 RED M203 |
| M50x1.5 | M40x1.5 | 9.0 | 14 | 57 | 1000 RED M204 |
| M63x1.5 | M50x1.5 | 11.0 | 14 | 66 | 1000 RED M205 |

"IPAC ENL" Metal Enlargement

indoelectricals.com

Material : Nickel-plate brass
 Shape : Round, Hexagonal
 Applications : Apply to the situation of the diameter need to be reduced
 Degree of protection : IP65/P68 (with O-ring)
 Temperature range : -40°C...+120°C



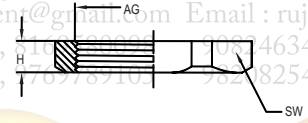
| Outside thread(AG) | Inside Thread (GL) | Out side Thread length (L2) | Inside Total length (L1) | Wrench size (SW) | Part No. |
|----------------------|--------------------|-----------------------------|--------------------------|------------------|---------------|
| PG Thread | | | | | |
| PG7 | PG9 | 5.0 / 5.0 | 10.0 / 10.0 | 17 | 1000 ENL M101 |
| PG9 | PG11 | 6.5 / 6.0 | 12.0 / 12.0 | 20 | 1000 ENL M102 |
| PG11 | PG13.5 | 6.0 / 6.0 | 12.0 / 12.0 | 22 | 1000 ENL M103 |
| PG13.5 | PG16 | 6.5 / 6.5 | 13.0 / 13.0 | 24 | 1000 ENL M104 |
| PG16 | PG21 | 6.5 / 6.5 | 14.0 / 14.0 | 30 | 1000 ENL M105 |
| PG21 | PG29 | 7.0 / 7.0 | 15.0 / 15.0 | 40 | 1000 ENL M106 |
| PG29 | PG36 | 8.0 / 8.0 | 15.0 / 17.0 | 50 | 1000 ENL M107 |
| PG36 | PG42 | 9.0 / 9.0 | 16.0 / 16.0 | 57 | 1000 ENL M108 |
| PG42 | PG48 | 9.0 / 10.0 | 16.0 / 16.0 | 65 | 1000 ENL M109 |
| Metric Thread | | | | | |
| M12x1.5 | M16x1.5 | 5.0 / 5.0 | 10.0 / 10.0 | 18 | 1000 ENL M207 |
| M16x1.5 | M20x1.5 | 6.0 / 6.0 | 12.0 / 12.0 | 22 | 1000 ENL M208 |
| M20x1.5 | M25x1.5 | 8.0 / 6.5 | 13.0 / 13.0 | 27 | 1000 ENL M200 |
| M25x1.5 | M32x2.0 | 7.5 / 6.5 | 15.0 / 15.0 | 35 | 1000 ENL M201 |
| M32x1.5 | M40x2.0 | 10.0 / 7.0 | 15.0 / 15.0 | 45 | 1000 ENL M202 |
| M40x1.5 | M50x2.0 | 10.0 / 9.0 | 16.0 / 16.0 | 55 | 1000 ENL M203 |
| M50x1.5 | M63x2.0 | 9.0 / 9.0 | 16.0 / 16.0 | 65 | 1000 ENL M204 |

"IPAC MLKN" Metal lock nut

indoelectricals.com

Material : Nickel-plate brass

Temperature range : -40°C...+100°C

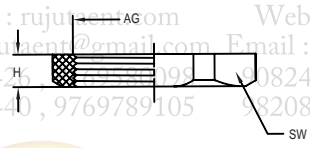


| Thread dimension(AG) | Wrench size(SW) | Thickness(H) | Part No. |
|----------------------|-----------------|--------------|---------------|
| PG Thread | | | |
| PG7 | 15 | 2.8 | 1000 LKN M101 |
| PG9 | 18 | 2.5 | 1000 LKN M102 |
| PG11 | 21 | 3.0 | 1000 LKN M103 |
| PG13.5 | 23 | 3.0 | 1000 LKN M104 |
| PG16 | 27 | 3.0 | 1000 LKN M105 |
| PG21 | 30 | 3.5 | 1000 LKN M106 |
| PG29 | 40 | 4.0 | 1000 LKN M107 |
| PG36 | 50 | 4.5 | 1000 LKN M108 |
| PG42 | 60 | 5.0 | 1000 LKN M109 |
| PG48 | 65 | 5.5 | 1000 LKN M100 |
| Metric Thread | | | |
| M12x1.5 | 15 | 2.8 | 1000 LKN M207 |
| M16x1.5 | 18 | 2.2 | 1000 LKN M208 |
| M20x1.5 | 22 | 3.0 | 1000 LKN M200 |
| M25x1.5 | 27 | 3.0 | 1000 LKN M201 |
| M32x1.5 | 35 | 3.5 | 1000 LKN M202 |
| M40x1.5 | 50 | 4.5 | 1000 LKN M203 |
| M50x1.5 | 57 | 5.0 | 1000 LKN M204 |
| M63x1.5 | 70 | 5.5 | 1000 LKN M205 |

"IPAC LKN" Polyamide lock nut

indoelectricals.com

Material : Polyamide
 Color : Grey, Black
 Temperature range : -40°C...+100°C



| Thread dimension(AG) | Wrench size(SW) | Thickness(H) | Part No. |
|----------------------|-----------------|--------------|---------------|
| PG Thread | | | |
| PG7 | 19 | 5.0 | 1000 LKN P101 |
| PG9 | 22 | 5.0 | 1000 LKN P102 |
| PG11 | 24 | 5.0 | 1000 LKN P103 |
| PG13.5 | 27 | 6.0 | 1000 LKN P104 |
| PG16 | 30 | 6.0 | 1000 LKN P105 |
| PG21 | 36 | 7.0 | 1000 LKN P106 |
| PG29 | 45 | 7.0 | 1000 LKN P107 |
| PG36 | 60 | 8.0 | 1000 LKN P108 |
| PG42 | 65 | 8.0 | 1000 LKN P109 |
| PG48 | 70 | 8.0 | 1000 LKN P100 |
| Metric Thread | | | |
| M12x1.5 | 19 | 5.0 | 1000 LKN P207 |
| M16x1.5 | 22 | 5.0 | 1000 LKN P208 |
| M20x1.5 | 27 | 6.0 | 1000 LKN P200 |
| M25x1.5 | 32 | 7.0 | 1000 LKN P201 |
| M32x1.5 | 40 | 7.5 | 1000 LKN P202 |
| M40x1.5 | 50 | 8.0 | 1000 LKN P203 |
| M50x1.5 | 65 | 8.0 | 1000 LKN P204 |
| M63x1.5 | 74 | 8.0 | 1000 LKN P205 |

Coding Systems

Part No.

Coding System is applicable when identical connector with different function is mounted side by side. Coding pins are used in place normal fixing screw to avoid incorrect coupling & ensure correct coupling.

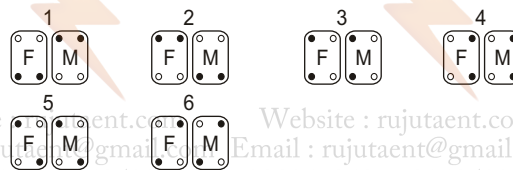
The combination of a number of guide pin & bush pin make it possible to obtain a high number of selective couplings. With normal coding pin 6 combination is possible and with the Guide Pin & Bush pin 16 different combination is possible.

Coding System with Code Pin

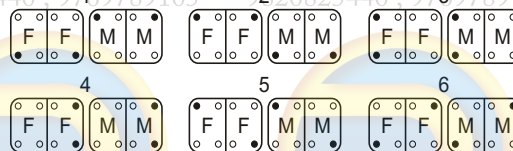


- Code Pin
- Mounting Screw
- F Female Connector
- M Male Connector

For Connector with one insert



For Connector with two insert



0110 300 1000

Coding System with Guide Pin & Bush Pin

Guide Pin

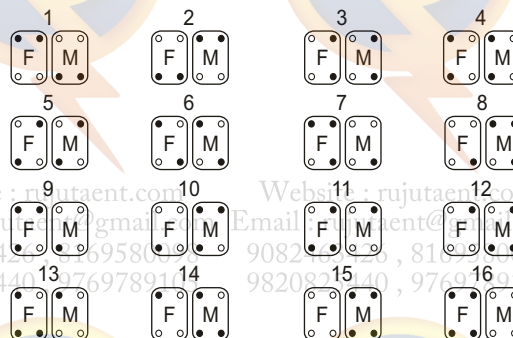


Bush Pin



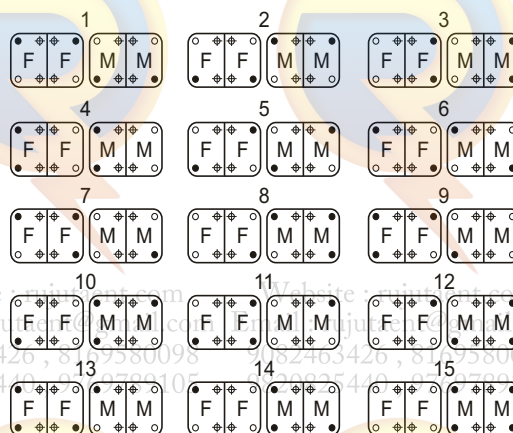
- Guide Pin
- Bush Pin
- ⊕ Mounting Screw
- F Female Insert
- M Male Insert

For Connector with one insert



0110 100 1000

For Connector with two insert



0110 200 1000

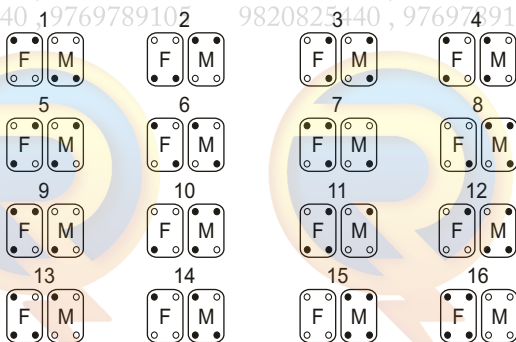
Coding Systems

Coding System with Guide Pin & Bush Pin

Modular Guide Pin

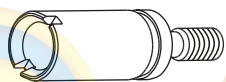


For Connector with one insert



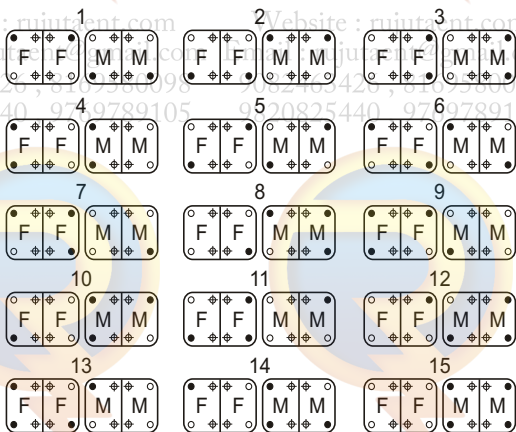
Part No. 0310 600 1000

Modular Bush Pin



For Connector with two insert

- Guide Pin
- Bush Pin
- ⊕ Mounting Screw
- F Female Insert
- M Male Insert



Part No. 0310 700 1000

FRONT PANEL INTERFACE UNIT

indoelectricals.com

Technical Data

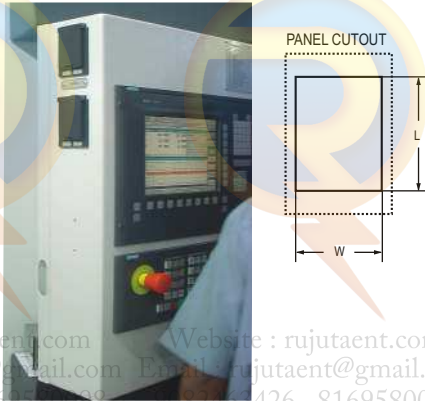
Website : rujutaent.com
 Email : rujutaent@gmail.com
 63426 , 8169580098
 25440 , 9769789105

Website : rujutaent.com
 Email : rujutaent@gmail.com
 9082463426 , 8169580098
 9820825440 , 9769789105

Website : rujutaent.com
 Email : rujutaent@gmail.com
 9082463426 , 8169580098
 9820825440 , 9769789105

Website : rujutaent.com
 Email : rujutaent@gmail.com
 9082463426 , 8169580098
 9820825440 , 9769789105

Website : rujutaent.com
 Email : rujutaent@gmail.com
 9082463426 , 8169580098
 9820825440 , 9769789105



Data Connector
 Max. Nominal Voltage
 Max. Nominal Current
 Max. Wire Diameter

Plug Connector SUB-D
 125V AC / 150V DC
 3 A
 20 / 0.05 mm2

Plug Socket
 Max. Nominal Voltage
 Max. Nominal Current
 Max. Wire Diameter

Universal Socket
 250 V AC
 6 A, 13 A & 16 A
 Screw Terminals

Frame
 Material
 Dimension (outside) FPIU LS
 FPIU MS
 FPIU SS
 FPIU CB

Polyamide
 113 x 65 x 17 mm
 92 x 70 x 12 mm
 100 x 41 x 13 mm
 135 X 75 X 18 MM

Panel Cut out FPIU LS LxW
 FPIU MS LxW
 FPIU SS LxW
 FPIU CB LxW
 Suitable to wall thickness

95 x 56 mm
 63 x 57 mm
 63 x 29 mm
 66 X 105 MM
 1 to 3 mm

FPIU SS

DISCRIPTION

PART No.



Data Connector Soldering type

With 2 Nos. of 2 Ft. USB Cable
 With 25 Pin Female Connector

011 0000 4C53
 011 2500 4S03

Panel Cutout - 64 X 29

FPIU

DISCRIPTION

PART No.



RJ 45 Connector 8 Pin Metal CAT5e, Gender Changer
 Fitted in 3 Pin Housing with Protective Cover

014 0000 0G13

Panel Cutout - 22 x 22

FRONT PANEL INTERFACE UNIT

indoelectricals.com

| FPIU MS | DISCRIPTION | PART No. |
|---|--|-----------------|
|  | Data Connector Soldering type | |
| | With 9 Pin Female Connector | 012 9000 4S03 |
| | With 9 Pin Male Connector | 012 9000 3S03 |
| | With 25 Pin Female & Blind Strip | 012 2500 4S03 |
| | With 9 Pin Femael & 25 Pin Female Connector | 012 2590 4S03 |
| | With 09 Pin Female & RJ45 Connector 8 Pin Metal CAT 5e | 012 9000 4S13 |
| | With 25 Pin Female & RJ45 Connector 8 Pin Metal CAT5e | 012 2500 4S13 |
| | With 9 Pin Female , 25 Pin Female Connector & RJ 45 8 Pin Metal CAT5e | 012 2590 4S13 |
| | With 9 Pin & 25 Pin Male Connector | 012 2590 3S03 |
| | With 1 USB/ 9 Pin Female & RJ45 Connector | 012 9000 4S23 |
| | With 25 Pin female & 9 Pin Male Connector | 012 2590 2S03 |
| | With 25 Pin Female & 25 Pin Male Insert | 012 2525 2S03 |
| | With 9 Pin Female & 9 Pin Male Connector | 012 9090 2S03 |
| | with 15 Pin Female & 9 Pin Male Connector | 012 1590 2S03 |
| | Plug Socket | |
| with 3 Pin Universal Socket 6A 250V | 012 0000 0000 | |
| with 3 Pin Universal Socket 13A 250V | 012 0000 0004 | |
| FPIU LS | DISCRIPTION | PART No. |
|     | Data Connector soldering type & Gender Changer | |
| | With 25 Pin Female | 013 2500 4S03 |
| | With 09 Pin Female | 013 2500 4S03 |
| | With 09 Pin & 25 Pin Female Connector | 013 2590 4S03 |
| | With 09 Pin Male, 9 Pin Female and RJ45 connector 8 pin Metal CAT5e Gender Changer | 013 9090 2S13 |
| | With 25 Pin Female /Female & 9 Pin Female/ Female Gender Changer & RJ45 Connector 8 Pin Metal CAT 5e, Gender Changer | 013 2590 4G13 |
| | With 9 Pin Female/ Female Gender Changer & RJ45 Connector 8 Pin Metal CAT 5e, Gender Changer | 013 9000 4G13 |
| | With 25 Pin Female/ Female Gender Changer & RJ45 Connector 8 Pin Metal CAT 5e, Gender Changer | 013 2500 4G13 |
| | With 25 Pin Female /Female & 9 Pin Female/ Female Gender Changer | 013 2590 4G03 |
| | With 09 Pin Female, RJ45 Connector 8 Pin Metal CAT 5e and 2 USB with 2 Mts. Cable | 013 9000 4S33 |
| | With 09 Pin Female & RJ45 Connector 8 Pin Metal CAT 5e, Gender Changer | 013 9000 4S13 |
| | With 09 Pin Female / Female Gender Changer | 013 9000 4G03 |
| | with RJ45/ 2USB with cable/ 15 Pin Female Gender Changer | 013 1500 4G30 |
| | Plug Socket | |
| | with 3 Pin Universal Socket 6A 250V | 013 0000 0000 |
| with 3 Pin German Socket 16 A 250V | 013 0000 0001 | |
| with 3 Pin Universal Socket 13 A 250V | 013 0000 0004 | |

FRONT PANEL INTERFACE UNIT

indoelectricals.com

FPIU CB

DISCRIPTION

PART No.



| DISCRIPTION | PART No. |
|---|---------------|
| Data Connector Soldering type | |
| With 9 Pin Female / RJ45 / 3 Pin Socket (6A 250V) | 035 9000 4S10 |
| With 9 Pin Female / RJ45 / 3 Pin Socket (13A 250V) | 035 9000 4S14 |
| With 25 Pin Female / RJ45 / 3 Pin Socket (6A 250V) | 035 2500 4S10 |
| With 25 Pin Female / RJ45 / 3 Pin Socket (13A 250V) | 035 2500 4S14 |
| With USB(with cable) / RJ45 / 3 Pin Socket (6A 250V) | 035 0000 0G24 |
| With USB(with cable) / RJ45 / 3 Pin Socket (13A 250V) | 035 0000 0G20 |
| With Four Rj45 | 035 0000 0G63 |

Machine Lamp for CNC Machine



- ✧ Input Voltage : 230V AC
- ✧ Wattage : 7 Watts
- ✧ Control Gear : CU ballast for 230V /AC
- ✧ Lumens : 455 Lm, Cool Day Light
- ✧ Machine Lamp Body : Borosilicate Glass
- ✧ Diameter : 60 MM
- ✧ Protection Grade : IP 67
- ✧ Cable Length : 2 Mts.

| External Ballast Model No. | I/P Voltage | Length MM |
|----------------------------|-------------|-----------|
| IETL-07W -1E | 230 V AC | 200 |

Machine Lamp for CNC Machine



- ✧ Input Voltage : 24V AC/DC , 110 AC, 230V AC
- ✧ Wattage : 9 Watts
- ✧ Control Gear : Electronic Ballast for 24 V & 110 V CU ballast for 230V /AC
- ✧ Lumens : 565 Lm, Cool Day Light
- ✧ Machine Lamp Body : Borosilicate Glass
- ✧ Diameter : 60 MM
- ✧ Protection Grade : IP 67
- ✧ Cable Length : 2 Mts.

| External Ballast Model No. | I/P Voltage | Length MM |
|----------------------------|-------------|-----------|
| IETL-09W-1E | 24V AC/DC | 290 |
| IETL-09W-2E | 110 V AC | 290 |
| IETL-09W-3E | 230V AC | 290 |

| Internal Ballast Model No | I/P Voltage | Length MM |
|---------------------------|-------------|-----------|
| IETL-09W-1I | 24V AC/DC | 465 |
| IETL-09W-2I | 110 V AC | 395 |
| IETL-09W-3I | 230V AC | 375 |

Machine Lamp for CNC Machine



- ✦ Input Voltage : 24V AC/DC , 110 AC, 230V AC
- ✦ Wattage : 11 Watts
- ✦ Control Gear : Electronic Ballast for 24 V & 110 V / CU ballast for 230V /AC
- ✦ Lumens : 850 Lm, Cool Day Light
- ✦ Machine Lamp Body : Borosilicate Glass
- ✦ Diameter : 60 MM
- ✦ Protection Grade : IP 67
- ✦ Cable Length : 2 Mts.

| External Ballast Model No. | I/P Voltage | Length MM |
|----------------------------|-------------|-----------|
| IETL-11W-1E | 24V AC/DC | 370 |
| IETL-11W-2E | 110 V AC | 370 |
| IETL-11W-3E | 230V AC | 370 |

| Internal Ballast Model No | I/P Voltage | Length MM |
|---------------------------|-------------|-----------|
| IETL-11W-1I | 24V AC/DC | 495 |
| IETL-11W-2I | 110 V AC | 495 |
| IETL-11W-3I | 230V AC | 495 |

Machine Lamp for CNC Machine



- ✦ Input Voltage : 24V AC/DC , 110 AC, 230V AC
- ✦ Wattage : 18 (9 x 2) Watts
- ✦ Control Gear : Electronic Ballast for 24 V & 110 V CU ballast for 230V /AC
- ✦ Lumens : 1150 Lm, Cool Day Light
- ✦ Machine Lamp Body : Borosilicate Glass
- ✦ Diameter : 60 MM
- ✦ Protection Grade : IP 67
- ✦ Cable Length : 2 Mts.

| External Ballast Model No. | I/P Voltage | Length MM |
|----------------------------|-------------|-----------|
| IETL-18W-D-1E | 24V AC/DC | 450 |
| IETL-18W-D-2E | 110 V AC | 450 |
| IETL-18W-D-3E | 230V AC | 450 |

| Internal Ballast Model No | I/P Voltage | Length MM |
|---------------------------|-------------|-----------|
| IETL-18W-D-1I | 24V AC/DC | 665 |
| IETL-18W-D-2I | 110 V AC | 685 |
| IETL-18W-D-3I | 230V AC | 605 |

Machine Lamp for CNC Machine



- ✧ Input Voltage : 24V AC/DC , 110 AC, 230V AC
- ✧ Wattage : 18 Watts
- ✧ Control Gear : Electronic Ballast for 24 V & 110 V CU ballast for 230V /AC
- ✧ Lumens : 1150 Lm, Cool Day Light
- ✧ Machine Lamp Body : Borosilicate Glass
- ✧ Diameter : 60 MM
- ✧ Protection Grade : IP 67
- ✧ Cable Length : 2 Mts.

| External Ballast Model No. | I/P Voltage | Length MM |
|----------------------------|-------------|-----------|
| IETL-18W-1E | 24V AC/DC | 335 |
| IETL-18W-2E | 110 V AC | 335 |
| IETL-18W-3E | 230V AC | 335 |

| Internal Ballast Model No | I/P Voltage | Length MM |
|---------------------------|-------------|-----------|
| IETL-18W-1I | 24V AC/DC | 465 |
| IETL-18W-2I | 110 V AC | 395 |
| IETL-18W-3I | 230V AC | 375 |

Machine Lamp for CNC Machine



- ✧ Input Voltage : 24V AC/DC , 110 AC, 230V AC
- ✧ Wattage : 36 Watts
- ✧ Control Gear : Electronic Ballast for 24 V & 110 V CU ballast for 230V /AC
- ✧ Lumens : 2500 Lm, Cool Day Light
- ✧ Machine Lamp Body : Borosilicate Glass
- ✧ Diameter : 60 MM
- ✧ Protection Grade : IP 67
- ✧ Cable Length : 2 Mts.

| External Ballast Model No. | I/P Voltage | Length MM |
|----------------------------|-------------|-----------|
| IETL-36W-1E | 24V AC/DC | 595 |
| IETL-36W-2E | 110 V AC | 595 |
| IETL-36W-3E | 230V AC | 595 |

| Internal Ballast Model No | I/P Voltage | Length MM |
|---------------------------|-------------|-----------|
| IETL-36W-1I | 24V AC/DC | 730 |
| IETL-36W-2I | 110 V AC | 620 |
| IETL-36W-3I | 230V AC | 686 |

CERTIFICATION

indoelectricals.com

Website : rujutaent.com Email : rujutaent@gmail.com 63426 , 8169580098 25440 , 9769789105

Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105

Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105

Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105

Website : rujutaent.com Email : rujutaent@gmail.com 9082463426 , 8169580098 9820825440 , 9769789105

ECBT2.E337258 - Connectors for Use in Data, Signal, Control and Power Applications - Component

UL Online Certifications Directory

[Home Quick Guide](#) [Contact Us](#) [UL.com](#)

ECBT2.E337258 Connectors for Use in Data, Signal, Control and Power Applications - Component

[Page Bottom](#)

Connectors for Use in Data, Signal, Control and Power Applications - Component

[See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component](#)

E337258

INDO ELECTRICALS
C/1/675
GIDC MAKARPURA
VADODARA, GJ 390010 INDIA. 9082463426 , 8169580098 9820825440 , 9769789105

Connectors, Model(s) Series ICG A

Marking: Company name and model designation on the device or carton.

[Print this page](#) [Notice of Disclaimer](#) [Page Top](#)

Questions?

© 2012 UL LLC

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Designs and/or Listings (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2012 UL LLC".

[file:///C:/Users/raj/Downloads/UL%20Data,%20Signal,%20Control%20and%20Power%20Applications%20Component.html\[19/03/2012 1:48:43 PM\]](#)

Certificate

Standard: ISO 9001:2008
Certificate Registr. No.: 85 100 001 11044
Certificate Holder: Indo Electricals
C-1/675, GIDC, Makarpura
Vadodara-390 010
Gujarat, India.

Scope: Design, Development & Manufacture of industrial electrical connectors.

Validity: Proof has been furnished by means of an audit that the requirements of ISO 9001:2008 are met.
The due date for all future audits is 20 - 01 (dd.mm).
The certificate is valid from 2015-02-18 until 2018-02-17.

Handwritten Signature

The Certification Body of TÜV Rheinland (India) Pvt. Ltd.
Bangalore 2015-02-18

www.tuv.com

 **TÜVRheinland**
Precisely Right.

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

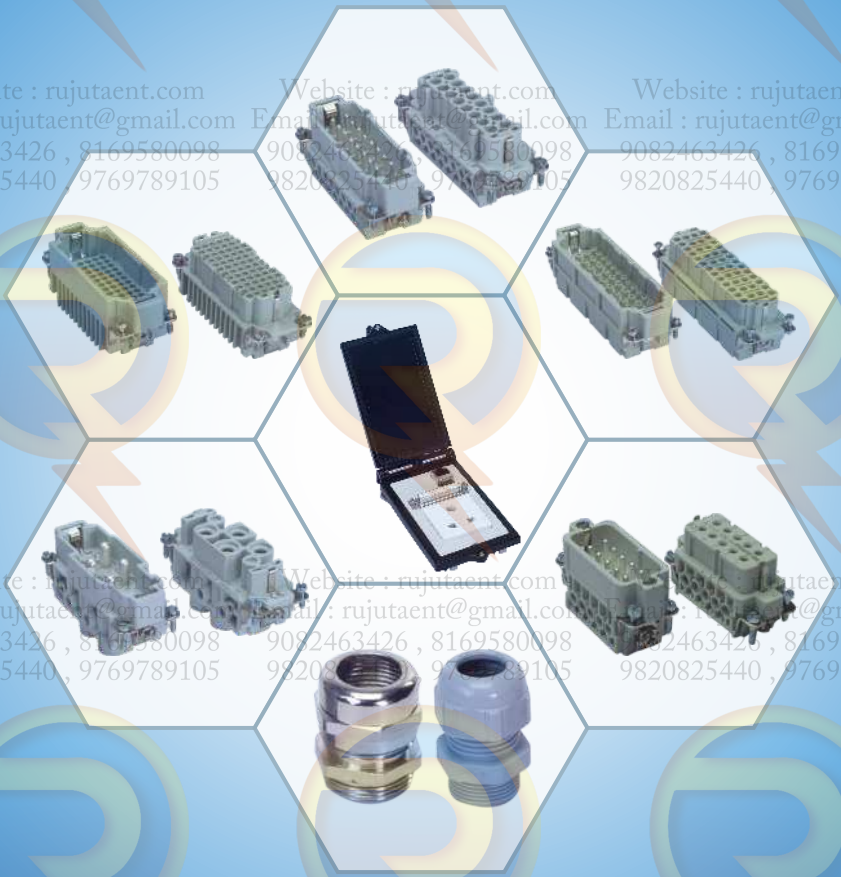
Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105



Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105

Website : rujutaent.com
Email : rujutaent@gmail.com
9082463426 , 8169580098
9820825440 , 9769789105



indo electricals

MANUFACTURES & ENGINEERS