



## MULTICONTACTS



# MULTICONTACTS

- ▶ High-performance connection.
- ▶ Large wiring capacity with the same contact.
- ▶ Quick and easy assembly and disassembly.
- ▶ Endurance and long life.
- ▶ Choose your required configuration up to 37 contacts.

## ▶ Extensive and comprehensive product range



### PN12c

- Up to 12 contacts (11p+e or 12)
- 10 A / 480 V max.



### DSN24c

- Up to 24 contacts (23p+e or 24)
- 10 A / 480 V max.



### DS24c

- Up to 24 contacts (23p+e or 24)
- 10 A / 480 V max.



### DSN37c

- Up to 37 contacts (36p+e or 37)
- 10 A / 480 V max.



### DS37c

- Up to 37 contacts (36p+e or 37)
- 10 A / 480 V max.

## Part no.

|               | PN12C<br>GRP                | PN12C<br>Metal | DSN24C<br>GRP | DS24C<br>GRP | DSN37C<br>GRP | DS37C<br>GRP | DS37C<br>Metal |
|---------------|-----------------------------|----------------|---------------|--------------|---------------|--------------|----------------|
| Socket-outlet | 01A4001                     | 09A4001        | 61B4002       | 31B4002      | 61C4003       | 31C4003      | 39C4003        |
| Inlet         | 01A8001                     | 09A8001        | 61B8002       | 31B8002      | 61C8003       | 31C8003      | 39C8003        |
| Crimping tool | 61CA500 for the whole range |                |               |              |               |              |                |

Each product is supplied with 1, 2 or 3 bag(s) of 13 contacts depending on the maximum configuration. This allows you to set up the product to suit your needs.

## ▶ Standards compliance

### Multicontact connectors comply with:

- the European Low Voltage Directive 2006/95/EC,
- the NF C15-100 installation standard,
- the NF C20-130 crimping standard,
- the IEC 61984 connectors standard.



# ECONOMIC AND TECHNICAL ADVANTAGES

Crimping ensures an **economical and sustainable solution** through installation time saving and quality of connection.

- No need for soldering performance qualifications.
- High resistance to vibration.
- Handling more than 5000 operations: a high durability and quality of connection guaranteed.

## ELECTRICAL FEATURES

|  | PN12C<br>GRP                                | PN12C<br>Metal | DSN24C<br>GRP             | DS24C<br>GRP | DSN37C<br>GRP | DS37C<br>GRP | DS37C<br>Metal |
|--|---|----------------|---------------------------|--------------|---------------|--------------|----------------|
| <b>Voltage</b>                         | 480 V                                       | 480 V          | 480 V                     | 480 V        | 480 V         | 480 V        | 480 V          |
| <b>Impulse withstand voltage</b>       | 2,5 kV<br>Pollution degree 1                |                | 2 kV / Pollution degree 1 |              |               |              |                |
| <b>Contact resistance</b>              | < 1mΩ for the whole range                   |                |                           |              |               |              |                |
| <b>Permitted current range</b>         | 4-20 mA / 10 A for the whole range          |                |                           |              |               |              |                |
| <b>Rated current per contact (max)</b> | 10 A for the whole range                    |                |                           |              |               |              |                |
| <b>Total current carried</b>           | ≤ 100 A                                     | ≤ 100 A        | ≤ 180 A                   | ≤ 180 A      | ≤ 280 A       | ≤ 280 A      | ≤ 280 A        |
| <b>Conductors accepted</b>             | 1 - 2,5 mm <sup>2</sup> for the whole range |                |                           |              |               |              |                |

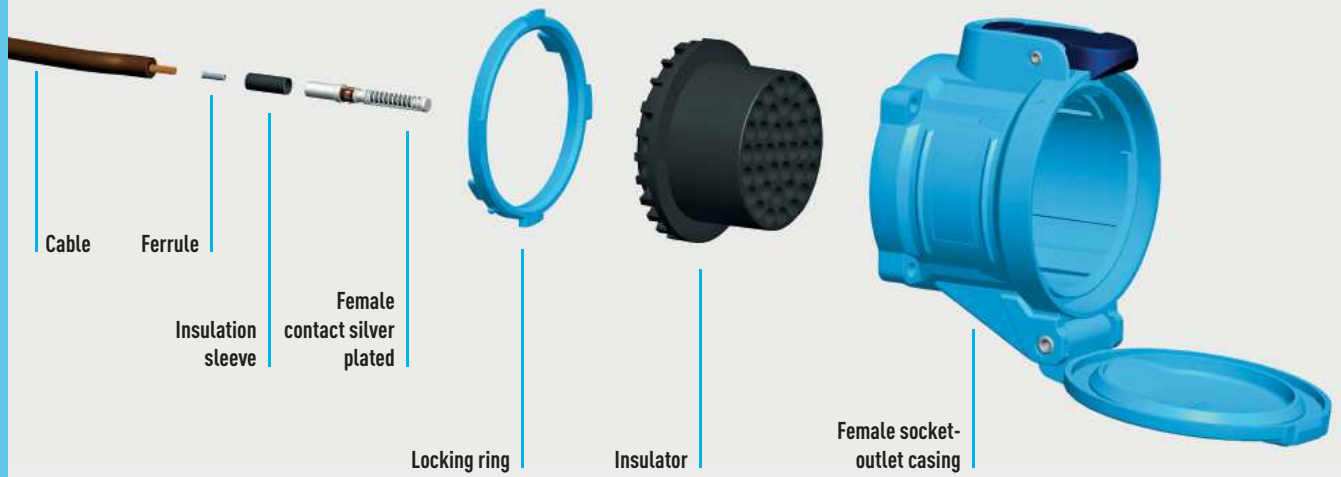
## CLIMATIC FEATURES

|  | PN12C<br>GRP  | PN12C<br>Metal | DSN24C<br>GRP | DS24C<br>GRP | DSN37C<br>GRP | DS37C<br>GRP | DS37C<br>Metal |
|--|---|----------------|---------------|--------------|---------------|--------------|----------------|
| <b>Ambient temperature</b>               | -40°C to +100°C for the whole range                           |                |               |              |               |              |                |
| <b>IP protection with plug connected</b> | IP66/IP67   | IP66/IP67      | IP66/IP67     | IP54         | IP66/IP67     | IP54         | IP66/IP67      |
| <b>IP protection with lid closed</b>     | IP66/IP67   | IP66/IP67      | IP66/IP67     | IP55         | IP66/IP67     | IP55         | IP66/IP67      |
| <b>Salt, Fog performance</b>             | 200 hrs minimum connected for the whole range                 |                |               |              |               |              |                |
| <b>Resistance to fluids</b>              | Motor oils, petrol, fats, detergents..... for the whole range |                |               |              |               |              |                |

## MECHANICAL FEATURES

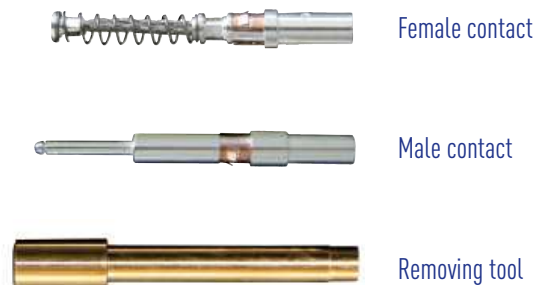
|                           | PN12C<br>GRP  | PN12C<br>Metal | DSN24C<br>GRP | DS24C<br>GRP | DSN37C<br>GRP | DS37C<br>GRP | DS37C<br>Metal |
|---------------------------|---|----------------|---------------|--------------|---------------|--------------|----------------|
| <b>Butt contacts</b>      | Female contacts: Copper alloy silver plated / Male contacts : silver-nickel tips for the whole range          |                |               |              |               |              |                |
| <b>Contact protection</b> | Silvering for the whole range   |                |               |              |               |              |                |
| <b>Load cycles</b>        | More than 5000 cycles for the whole range   |                |               |              |               |              |                |
| <b>Shock resistance</b>   | IK08  | IK09           | IK08          | IK08         | IK08          | IK08         | IK09           |
| <b>Vibration</b>          | Frequency 5-1000 Hz, 1g (90 minutes on each critical frequency) according to IEC 6068-2-6 for the whole range |                |               |              |               |              |                |





## FAST WIRING

- Cable conductors: 1 mm<sup>2</sup> to 2,5 mm<sup>2</sup>
- For conductors sizes 1 or 1,5 mm<sup>2</sup> the ferrules supplied must be used as well as the insulation sleeves.
- Use a crimping tool with a hexagonal die.
- Conductors can equally be soldered.



## SIMPLE ASSEMBLY AND DISASSEMBLY

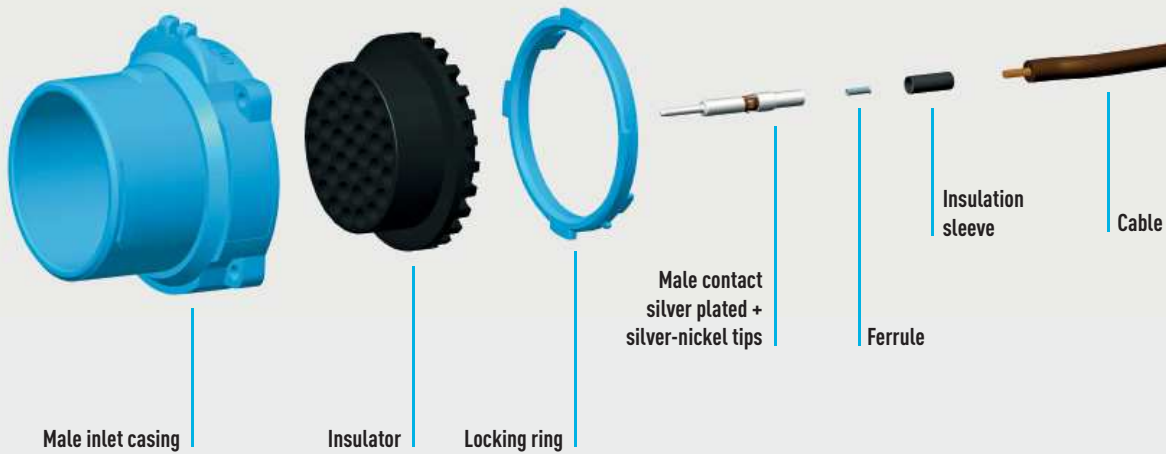


To insert contacts when they have been wired is simple. Push wired contact into rear of insulator until it stops to complete the installation.



To remove, use the tool provided. Push tool from front onto contact until tool stops. Contact is then released at rear of insulator.





## EXAMPLES OF APPLICATIONS

### FOOD INDUSTRY



#### PEPSI SA SOUTH AFRICA

Food processing: fizzy drinks, fruit juices, savoury biscuits and cereal

##### ▶ Retrofitting factory to Pepsico standards.

- Quick and safe intervention : rapid connection and disconnection of equipment
- Automatic IP66/IP67sealing: resistance to humidity and water spray caused by cutting or cleaning.

### WATER TREATMENT



#### FBI BIOME FRANCE

Mobile transportable units for biogas or liquid treatment produced by waste

##### ▶ Power supply to evaporation module, Cistern supply, Dosing pump.

- Time savings on installation and mobility: mobile units change place every 4 to 6 weeks and use of extension cables equipped with decontactors when facilities are too far from the main storage tank
- Automatic water- and dust-tight sealing in humid and harsh environments
- Multifunction: safety, power and signals.

### INFRASTRUCTURES



#### INFRABEL BELGIUM

Management of Belgian rail network infrastructure

##### ▶ Connection via cables between the electric cabinets and the maintenance workshops

- Compact design
- Workers safety: socket-outlets with integral switching allows quick disconnection by persons without electrical training
- Robustness: material resistance to shock up to IK09 (metal version)

### ENTERTAINMENT



#### COWBOYS STADIUM USA

Football stadium of Dallas

##### ▶ Provide power to audio systems

- Reliability and performance over time through technology of butt contacts
- Robustness: resistance of materials to temperature variations (-40 ° C to +100 ° C)
- IP66/IP67 automatic water- and dust-tight sealing: resistance to external conditions.

