### Features
- Available in 3A, 10A, 16A, 6B, 10B, 16B, 24B, and 32B sizes
- Heavy-duty metal housings in polyester powder coated die-cast aluminum alloy or self-extinguishing thermoplastic housing
- Single locking system (one lever locked on two pegs) or double locking system (two levers locked on four pegs)
- Mechanical duration of 500 cycles
- Operating temperatures from -40°C to 125°C (-40°F to 257°F)
- IP66 degree of protection with enclosure when coupled
- NEMA/UL Type 1, 4, 4X, 12 protection with enclosure when coupled.
- Conforms with EN61984, VDE 01 10, VDE 0627, EN 175301-801, and UL 1977, UL50, UL50E standards
- UL and CE approvals

### Housings
- Available with top entry and side entry cable passages
- Standard and high-construction profiles
- Threaded cable passages with Pg threads (EN 60423) with optional Pg to NPT adapters
- Stainless steel or thermoplastic locking pegs
- Accessories include cable glands and Pg thread to NPT adapters

### Bases, Couplers and Covers
- Surface and bulkhead mounted bases
- Two cable passages on surface mount bases
- Seal gaskets made of anti-aging, oil-resistant and fuel-resistant vinyl nitrile elastomer
- Locking levers made of galvanized steel or self-extinguishing glass-filled thermoplastic; guarantees perfect closing and sealing

### Inserts
- Self-extinguishing thermoplastic reinforced with glass fibers
- Asymmetric guide rails prevent incorrect coupling
- Captive installation screws allow for easy and secure installation to bases and hoods
- Laser-printed or molded terminal/contact positions on both sides of insert
- Copper alloy contacts with hard silver or gold plating - available with stainless steel captive screw terminal or machined crimp contact
- Wide contact surface for ground terminals
- IP20 without enclosures
- Suitable for stranded and solid conductors

### Accessories
- A wide range of accessories including:
  - Pg to NPT adapters
  - Plugs with gaskets
  - Cable glands (IP66 & IP68)
  - DIN rail mounting kits
  - Crimp tools
  - Replacement screws, code pins and gaskets
  - Insert plates (with cutouts, reducers, blank)
  - Coding pins

### Agency Approvals
- UL Recognized File number E342543
- CE
- RoHS
- NEMA 250

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For the latest prices, please check AutomationDirect.com.
STD Series Multi-Wire Connectors

General Characteristics

Application Examples
- Electronic machinery
- Robots
- Control equipment
- Power connections
- Control and signal circuits
- Packaging machinery
- Theatrical applications
- Industrial equipment
- Electrical panels

Inserts
ZIPport multi-wire connectors require one male and one female insert. The inserts are available in multiple pole configurations from 3 poles plus ground up to 144 poles plus ground and with termination sizes ranging from 26 to 12 AWG, 10 to 80 Amps.

ZIPport inserts are made of UL 94 V-0 rated self-extinguishing thermoplastic resin rated at a maximum temperature of 125°C (257°F). The inserts are available in screw terminal and crimp style contact block connections. The contacts are copper alloy with a hard silver or gold plating. The plastic insulators are numbered on both sides by laser printing or molding in accordance with EN 60068-2-70.
- Suitable for use with alternating (AC) or direct current (DC)
- Leading protective ground
- Polarized for correct mating
- Interchangeable for male and female inserts in hoods and bases
- Captive screws
- Can be used with hoods and bases, or with rack and panel applications

Housings
The housings for the ZIPport multi-wire connectors consist of a hood that mates with a base or a coupler.

They are made of die-cast aluminum with a polyester powder finish or from self-extinguishing thermoplastic and are suitable for use in industrial applications.

All housings are available in a standard profile. Several are offered with a high construction (HC) profile that allows more room for wiring the higher density inserts.

A single or double lever locking system assures coupling stability and protection against accidental opening. The locking system is comprised of stainless steel or glass filled thermoplastic levers, with compatible interlocking pegs.

Size and Identification

The size of each type of connector is determined by the distance between the center points of the four installation screws. These four points are common to both the insert and the housing. This is indicated by "X"-"Y" in the illustration above.

The table below lists the size identification and the actual X-Y distance for each type of connector offered.

<table>
<thead>
<tr>
<th>Size</th>
<th>Distance X-Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>3A</td>
<td>21 x 21 mm*  [0.83 x 0.83 in]</td>
</tr>
<tr>
<td>10A</td>
<td>49.5 x 16 mm [1.95 x 0.63 in]</td>
</tr>
<tr>
<td>16A</td>
<td>66 x 16 mm [2.60 x 0.63 in]</td>
</tr>
<tr>
<td>6B</td>
<td>44 x 27 mm [1.73 x 1.06 in]</td>
</tr>
<tr>
<td>10B</td>
<td>57 x 27 mm [2.24 x 1.06 in]</td>
</tr>
<tr>
<td>16B</td>
<td>77.5 x 27 mm [3.05 x 1.06 in]</td>
</tr>
<tr>
<td>24B</td>
<td>104 x 27 mm [4.09 x 1.06 in]</td>
</tr>
<tr>
<td>32B</td>
<td>77.5 x 62 mm [3.05 x 2.44 in]</td>
</tr>
</tbody>
</table>

* The center distance cannot be given because the 3A inserts have only one screw: 21 x 21 indicates the size of the sectioned insert.
# STD Series Multi-Wire Connectors

## Specifications

### Technical Characteristics

<table>
<thead>
<tr>
<th>Connector Size</th>
<th>3A</th>
<th>10A</th>
<th>16A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Poles</strong></td>
<td>3+PE</td>
<td>4+PE</td>
<td>5+PE</td>
</tr>
<tr>
<td><strong>UL/CSA Rated Voltage</strong></td>
<td>600V</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Rated Current</strong></td>
<td>10A</td>
<td>16A</td>
<td>10A</td>
</tr>
<tr>
<td><strong>Rated Voltage AC/DC</strong></td>
<td>230/400V</td>
<td>250V</td>
<td>400V</td>
</tr>
<tr>
<td><strong>Impulse Withstand Voltage</strong></td>
<td>4kV</td>
<td>6kV</td>
<td>4kV</td>
</tr>
<tr>
<td><strong>Rated Voltage</strong></td>
<td>230/400V</td>
<td>320/500V</td>
<td>230/400V</td>
</tr>
<tr>
<td><strong>Impulse Withstand Voltage</strong></td>
<td>4kV</td>
<td>6kV</td>
<td>4kV</td>
</tr>
</tbody>
</table>

### Inserts

- **Continuous Current Carrying Capacity**: Refer to Electrical Engineering section charts
- **Insulation Resistance**: 10^10 Ω
- **Material**: Polycarbonate
- **Temperature Range**: -40°C to 125°C (-40°F to 257°F)
- **Flammability**: UL 94 V-0 GWT 960°
- **Degree of Protection**: With Housing - IP66, NEMA/UL (Type 1, 4, 4x, 12); Without Housing - IP20
- **Mechanical Working Life**: 500 Cycles

### Contacts

- **Material**: Hard-silver plated (2µm Au) or gold plated copper alloy
- **Min. Recommended Load (voltage & current)**: 5V/5mA AC/DC (silver plated)
- **Contact Resistance**: ≤1 mΩ, ≤3 mΩ
- **Screw Terminal Wire Size**: 0.5-2.5 mm², N/A, 0.5-2.5 mm², N/A, 0.5-2.5 mm², N/A
- **Screw Terminal Tightening Test Torque**: 0.5 Nm, N/A, 0.5 Nm, N/A, 0.5 Nm, N/A
- **Screw Terminal Stripping Length**: 7.0 mm, N/A, 7.0 mm, N/A, 7.0 mm, N/A
- **Crimp Terminal Wire Size**: 0.5-2.5 mm², 0.14-2.5 mm², 0.14-2.5 mm², 0.14-2.5 mm², 0.14-2.5 mm², 0.14-2.5 mm²
- **Crimp Terminal Stripping Length**: N/A, 7.5 mm, N/A, 7.5 mm, N/A, 7.5 mm, N/A

### Thermoplastic Hoods/Bases/Couplers/Covers

- **Material**: Glass filled polyamide
- **Locking Element**: Glass filled polyamide lever and peg
- **Flammability**: UL 94 V-0 GWT 960°
- **Housings Seal**: NBR (Nitrile rubber)
- **Degree of Protection Acc. to EN 60529 (coupled)**: IP66
- **Temperature Range**: -40°C to 125°C (-40°F to 257°F)
- **Thread**: Metric EN 50262 Pg DIN 40430

### Aluminum Hoods/Bases/Couplers/Covers

- **Material**: Die cast aluminum alloy, Polyester powder coated
- **Locking Element**: Stainless steel lever and peg
- **Housings Seal**: NBR (Nitrile)
- **Degree of Protection Acc. to EN 60529 (coupled)**: IP66, NEMA/UL (Type 1, 4, 4x, 12), NEMA 250, UL50, 50E
- **Temperature Range**: -40°C to 125°C (-40°F to 257°F)
- **Thread**: Metric EN50262 Pg DIN 40430

*Connectors should not be coupled and decoupled under electrical load.*
# STD Series Multi-Wire Connectors Specifications

## Technical Characteristics

### Connector Size

<table>
<thead>
<tr>
<th>Inserts</th>
<th>Number of Poles</th>
<th>6B</th>
<th>10B</th>
<th>16B</th>
<th>40+PE</th>
<th>72+PE</th>
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<td>24+PE</td>
<td>10+PE</td>
<td>42+PE</td>
<td>6+PE</td>
<td>16+PE</td>
</tr>
<tr>
<td>UL/CSA Rated Voltage*</td>
<td>600V</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Maximum Rated Current</td>
<td>16A</td>
<td>10A</td>
<td>16A</td>
<td>10A</td>
<td>35A</td>
<td>16A</td>
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<td>250V</td>
<td>500V</td>
<td>250V</td>
<td>830V</td>
<td>500V</td>
</tr>
<tr>
<td>Impulse Withstand Voltage</td>
<td>6kV</td>
<td>4kV</td>
<td>6kV</td>
<td>4kV</td>
<td>6kV</td>
<td>4kV</td>
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<tr>
<td>EN 61984 (2001-11) Pollution Degree 2</td>
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<td>230/400V</td>
<td>400/690V</td>
<td>230/400V</td>
<td>1000V</td>
<td>400/690V</td>
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<tr>
<td>Impulse Withstand Voltage</td>
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<td>4kV</td>
<td>6kV</td>
<td>4kV</td>
<td>8kV</td>
<td>6kV</td>
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<tr>
<td>Insulation Resistance</td>
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<tr>
<td>Material</td>
<td>Polycarbonate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40°C to 125°C (-40°F to 257°F)</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Flammability</td>
<td>UL 94 V-0 GWT 960°</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Degree Protection</td>
<td>With Housing: IP66, NEMA/UL (Type 1, 4, 4x, 12) Without Housing: IP20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Working Life</td>
<td>500 Cycles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conductor Termination</td>
<td>Screw Terminals: ✓ ✓ ✓ ✓ N/A ✓ ✓ ✓ ✓ N/A ✓ ✓ ✓ ✓ N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crimp Contacts: ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Contacts</td>
<td>Material</td>
<td>Hard-silver plated (2µm Au) or gold plated copper alloy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Minimum Recommended Load (voltage &amp; current)</td>
<td>5V/5mA AC/DC (silver plated)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Contact Resistance</td>
<td>N/A</td>
<td>N/A</td>
<td>0.5-2.5mm²</td>
<td>0.5-2.5mm²</td>
<td>N/A</td>
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<tr>
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<td>Screw Terminal Wire Size</td>
<td>N/A</td>
<td>N/A</td>
<td>0.5-2.5mm²</td>
<td>0.5-2.5mm²</td>
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<td></td>
<td>Screw Terminal Tightening Test Torque</td>
<td>N/A</td>
<td>N/A</td>
<td>0.5 Nm</td>
<td>0.5 Nm</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Screw Terminal Stripping Length</td>
<td>N/A</td>
<td>N/A</td>
<td>7.0 mm</td>
<td>7.0 mm</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Crimp Terminal Wire Size</td>
<td>0.14-4.25mm²</td>
<td>0.14-2.5mm²</td>
<td>0.14-4.25mm²</td>
<td>0.14-2.5mm²</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Crimp Terminal Stripping Length</td>
<td>7.5 mm</td>
<td>8 mm</td>
<td>7.5 mm</td>
<td>8 mm</td>
<td>N/A</td>
</tr>
<tr>
<td>Aluminum Hoods/Bases/ Couplers/ Covers</td>
<td>Material</td>
<td>Die cast aluminum alloy. Polyester powder coated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Locking Element</td>
<td>Stainless steel lever and peg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Housings Seal</td>
<td>NBR (Nitrile)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Degree of Protection Acc. to EN 60529 (coupled)</td>
<td>NEMA 250, UL50, 50E</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Temperature Range</td>
<td>-40°C to 125°C (-40°F to 257°F)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thread</td>
<td>Metric EN50262 Pg DIN 40430</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Connectors should not be coupled and decoupled under electrical load.*
## Technical Characteristics

<table>
<thead>
<tr>
<th>Connector Size</th>
<th>24B</th>
<th>32B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Poles</td>
<td>4+8+PE</td>
<td>24+PE</td>
</tr>
<tr>
<td>UL/CSA Rated Voltage*</td>
<td>600V</td>
<td></td>
</tr>
<tr>
<td>Maximum Rated Current</td>
<td>80A/Signal: 16A</td>
<td>16A</td>
</tr>
<tr>
<td>Rated Voltage AC/DC</td>
<td>830V/400V</td>
<td>500V</td>
</tr>
<tr>
<td>Impulse Withstand Voltage</td>
<td>8kV/6kV</td>
<td>6kV</td>
</tr>
<tr>
<td>Rated Voltage</td>
<td>1000V/690V</td>
<td>400/690V</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40°C to 125°C (-40°F to 257°F)</td>
<td></td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP66, NEMA/UL (Type 1, 4, 4X, 12)</td>
<td></td>
</tr>
<tr>
<td>Mechanical Working Life</td>
<td>500 Cycles</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Polycarbonate</td>
<td></td>
</tr>
<tr>
<td>Electrical Engineering section charts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>10^6Ω</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Hard-silver plated (2µm Au) or gold plated copper alloy</td>
<td></td>
</tr>
<tr>
<td>Minimum Recommended Load (voltage &amp; current)</td>
<td>5V/5mA AC/DC (silver plated)</td>
<td></td>
</tr>
<tr>
<td>Contact Resistance</td>
<td>≤0.3 mΩ/1mΩ</td>
<td>≤1 mΩ</td>
</tr>
<tr>
<td>Screw Terminal Wire Size</td>
<td>mm²</td>
<td>1.5-16 mm² / 0.5-2.5 mm²</td>
</tr>
<tr>
<td>Screw Terminal Tightening Test Torque</td>
<td>Nm</td>
<td>1.2 Nm / 0.5 Nm</td>
</tr>
<tr>
<td>Screw Terminal Stripping Length</td>
<td>mm</td>
<td>14 mm / 7.0 mm</td>
</tr>
<tr>
<td>Crimp Terminal Wire Size</td>
<td>mm²</td>
<td>N/A</td>
</tr>
<tr>
<td>Crimp Terminal Stripping Length</td>
<td>mm</td>
<td>N/A</td>
</tr>
<tr>
<td>Thread</td>
<td>Metric EN50026 Pg DIN 40430</td>
<td></td>
</tr>
</tbody>
</table>

* Connectors should not be coupled and decoupled under electrical load.
Conductor Termination

Overview

Two types of conductor termination are available for ZIPport inserts:

- Screw terminations
- Crimp terminations

Screw Terminations

Screw terminations consist of contacts made of silver-plated copper alloy and are incorporated with a wire clamp (with the exception of the size 3A inserts and size 24B with 80A contacts) for firmly securing the conductors. The screw terminals use stainless steel captive screws and meet VDE 0609 / EN 60999 standards.

Proper conductor installation requires no special preparation when using inserts with the wire clamp terminals (no wire ferrules). The table below lists the current rating, maximum wire gauge and stripping lengths.

Current Rating | Max Wire Gauge | Stripping Length
--- | --- | ---
10A | 2.5 | 4.5 (0.18)
16A | 2.5 | 7 (0.28)
35A | 6.0 | 11.5 (0.45)
16/80A | 25/16 | 7 (0.28)/14 (0.55)

The value of tensile strength of conductors in accordance with the dimensions of the screws and the wires are shown in the following table:

<table>
<thead>
<tr>
<th>Wire Gauge (mm²) (AWG)</th>
<th>1.5 (16)</th>
<th>2.5 (14)</th>
<th>4 (12)</th>
<th>6 (10)</th>
<th>10 (8)</th>
<th>16 (6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of Screw</td>
<td>M3</td>
<td>M3</td>
<td>M3.5</td>
<td>M4</td>
<td>M4</td>
<td>M6</td>
</tr>
<tr>
<td>Tensile Strength of Stranded Wire (N)</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>80</td>
<td>90</td>
<td>100</td>
</tr>
</tbody>
</table>

Increasing the tightening torque does not necessarily improve the contact resistance. The screw torques are selected according to standard EN 60999-1, to provide excellent mechanical, thermal and electrical behaviour. The conductor or terminal may be damaged if the recommended values are significantly exceeded.

Crimp Terminations

Crimp terminations consist of contacts made of silver or gold-plated copper alloy. Crimp terminations are accomplished by applying a crimp contact to the conductor by means of a crimping tool. Crimp contacts are available in several sizes:

- 10 amp, 26-14 AWG
- 16 amp, 26-12 AWG

A perfect crimp connection is gas-tight, corrosion-free and is equal to a cold weld of the parts being connected. Wires to be connected must be carefully matched with the correct wire size of crimp contacts.

The requirements for crimp connectors are depicted in IEC 60352, part 2.

Note: Low currents and voltages:

ZIPport standard contacts (screw and crimp) have a silver plated surface. This metal has excellent conductive properties. During the contacts’s lifetime, the silver surface generates a black oxide layer due to its affinity to sulphur (always present in the atmosphere). This layer is conductive smooth and very thin and is partly interrupted when the contacts are mated and unmated, thus guaranteeing very low contact resistances. In the case of very low current or voltage, small changes to the transmitted signal may be encountered.

In applications where voltage and current are lower than 5V and 5mA, and in extremely aggressive environments, ZIPport gold plated contacts are recommended. See ZIPport spare parts and accessories pages.
Crimp Contact to Insert Installation

Proper installation of the crimp contacts is important for a good electrical and mechanical connection. The following steps will ensure correct installation.

Step 1: Select the Crimp Contacts
Select a crimp contact based on the rating of the Insert you are using - 10 or 16 amps; the gender - male or female; and gauge of wire being used.

Step 2:

Step 3: Install the Insert into the Housing.
Now that the crimp contacts are installed, the insert can be placed into the housing by aligning the corner installation screws of the insert with the screw holes located in the corners of the housing. Tighten the screws according to the tightening torques listed in the Insert Screw Specifications table in this document.

Wire Entry Connection
ZIPports offer four types of connection for wire entry into the housings. Two entries accommodate flex conduit and two accept cable.

- Metric/Pg Connection
  This is standard on all housings that offer a threaded wire entry. Sizes range from Pg 11 to Pg 36. This is for using fittings with a male Pg thread connection.

- Adapter to NPT Pipe Fitting
  This adapter converts the Pg thread to an NPT thread. Sizes range from 3/8” to 1-1/4” in relation to the Pg threaded opening in the housing.

- IP68 Cable Gland
  For securing a cable to the housing. This is an all inclusive fitting that can be tightened without using separate washers.

- IP66 Cable Gland with washer
  For securing a cable to the housing. This gland is available in plastic or metal in relation to housing material. Includes two washers and four gaskets to accommodate a wide range of cable diameters.
**Standards**

The inserts are designed and manufactured to conform with EN 61984, IEC 61984, VDE 0627 and UL 1977/CSA C22.2 182.3 standards. They are certified and labeled with the cULus and CE marks. The connectors are therefore in conformance with both European/International and American systems. This permits them to be used in a wider range of applications worldwide.

- EN 61984: Connectors safety requirements and tests
- VDE 0627: Connectors (DIN VDE 0627)
- EN 60664-1: Insulation coordination for equipment within low-voltage systems
- EN 175 301-801: High density rectangular connectors, round removable crimp contacts
- EN 60947-7-1 part 7-1: Low-voltage switchgear and control gear, Ancillary equipment - Terminal blocks for copper conductors
- VDE 0110: Table 4 concerning clearance and creepage distances
- EN 60512: Connectors for electronic equipment, tests and measurements
- UL 1977: Component connectors for use in data, signal, control and power applications
- CSA.C22.2 No. 182.3: Special use attachment, plugs, receptacles and connectors
- EN 60529: Degree of protection provided by enclosures (IP degree)
- EN 50262: Metric cable glands for electrical installation
- EN 60423: Conduits for electrical purposes. Outside diameters of conduits for electrical installations and thread for conduits and fittings
- DESINA® specifications (Distributed and Standardized Installation Technology): Studied by German Manufacturers of Machine Tool Association.

**Directives and Declarations**

NEMA-250 Declaration of Conformity

Metal and plastic enclosures for Multipole Industrial Connectors (Heavy Duty Connectors). Series STD, STD-HV, HE, HE-HV all sizes. Are designed and manufactured in conformity with NEMA 250-1991 Standard and meet the requirements of NEMA Type 4, 4x and 12.

- 2006/95/EC: LVD Directive

- 2002/95/EC: RoHS Directive

- 2008/35/EC: RoHS Directive amendment

  In accordance with the European Directive that regulates the emission and the immunity of the equipment, for the products designed for EMC industrial applications.


- **Warning** - According to EN 61984, connectors should not be coupled and decoupled under electrical load.