



NECTOR M Power System

Building and Luminaire Power

Buildings are alive. They talk. They breath. They have the intelligence to sense and react, anticipate and illuminate. With increased urbanization and a rise in environmental concerns, there is a growing demand for state-of-the-art buildings that provide total comfort, convenience and control. The NECTOR M power system will elevate how buildings are powered within the walls and to the many devices that it powers.





The NECTOR M Power system is a fully pluggable, lighting and power electrical modular wiring connector and cabling system for permanent electrical installations in the construction industry.

APPLICATIONS

- Commercial Office / Retail Buildings
- Hospitals
- Schools
- Hotels
- Factory Built Construction

ELECTRICAL

- **Operating Voltage:** 250 VAC
- **Operating current:**

| Nominal Wire Cross Sectional Area (mm2) | Single phase circuit (2w. loaded max.) Current max. | Multi-phase circuit (32.loaded max.) Current max. |
|---|---|---|
| 1.5 | 16A | 10A |
| 2.5 | 20A | 16A |

BENEFITS

- Fully pluggable, modular wiring electrical installation system
- 3, 5, 6 & 7 position connector systems
- Connectors available in white and black
- Housing keying options prevent mis-mating
- Cable assemblies available upon request
- Circular form factor simplifies routing during installations
- 3 Pole System fits through a 15mm diameter opening
- 5, 6 & 7 Pole System fits through a 22mm diameter opening
- Tool disconnect required by IEC standards

MECHANICAL

- **Operating temperature:** -40°C to 70° C (depending on cable used)
100°C on insulating parts
- **UV Resistant:** Black connectors only
- **Seal Rating:** IP20
- **Wire Termination:** Closed barrel pin & socket crimped terminals

STANDARDS

- IEC 61535

PRODUCT SPECIFICATIONS

3 position connector:

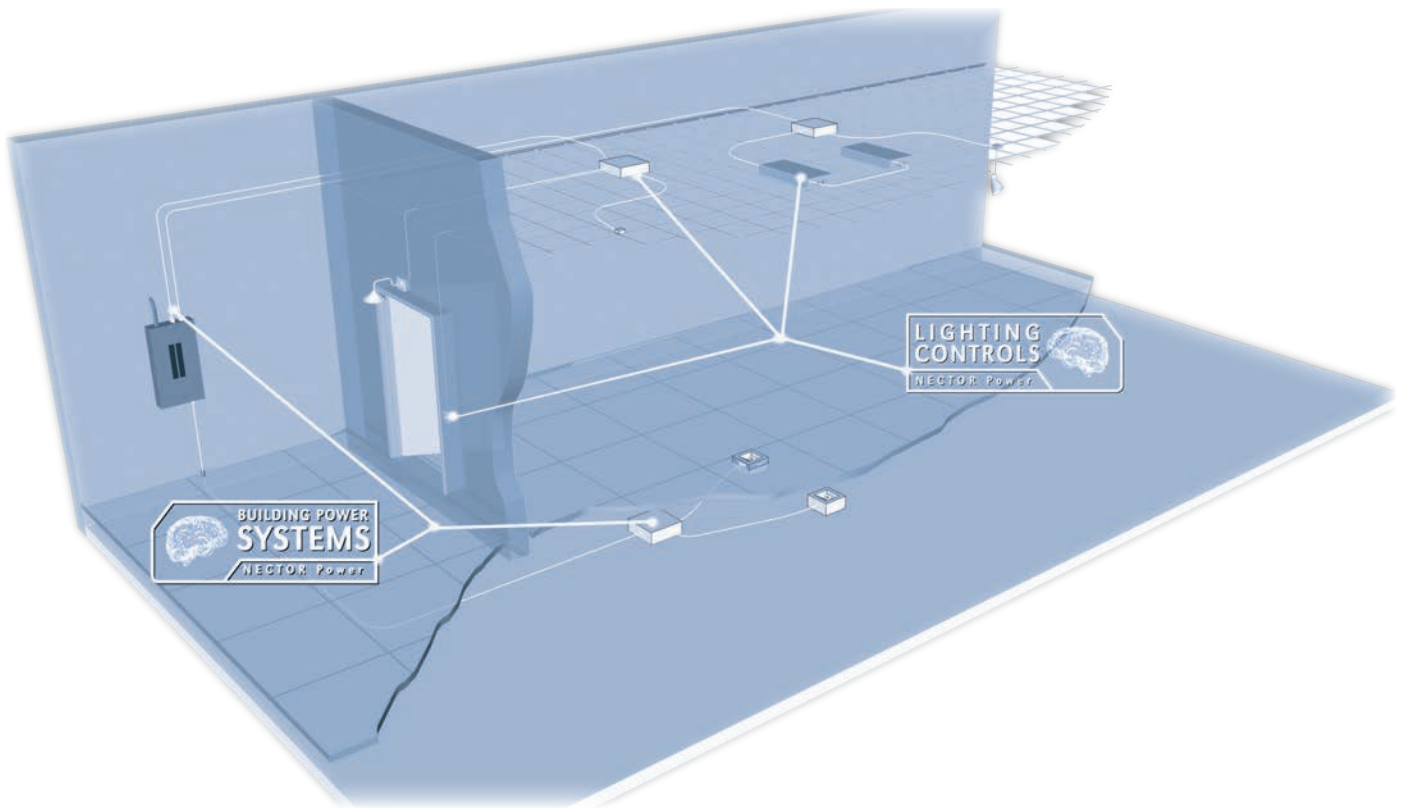
| | |
|---------------------------------------|------------------|
| Application Specification: | 114-20152 |
| Product Specification: | 108-20304 |
| Packaging Specification (Connectors): | 107-20294 |
| Packaging Specification (Terminals): | 107-20295 |

5, 6 & 7 position connector:

| | |
|---------------------------------------|------------------|
| Application Specification: | 114-20169 |
| Product Specification: | 108-20324 |
| Packaging Specification (Connectors): | 107-20300 |
| Packaging Specification (Terminals): | 107-20295 |

Pole configurations

- 3 Pole (L, N, ground)
- 5 Pole (L1, S1, S2, N, ground)
- 6 Pole (L1, L2, S1, S2, N, ground)
- 7 Pole (L1, L2, L3, S1, S2, N, ground)



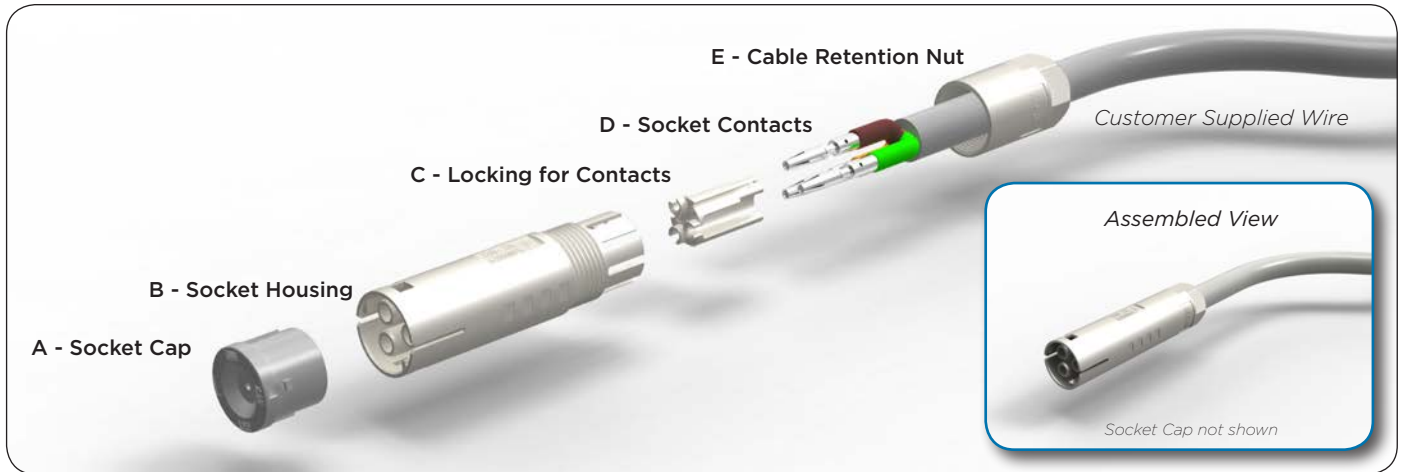
BUILDING POWER


The NECTOR M power system allows electrical contract manufacturers the ability to engineer, design and build power distribution units, electrical devices, and cable assemblies off-site that result in reduced on-site labor costs, increased efficiency and improved reliability for permanent electrical installations in the construction industry. This state-of-the-art multi-pole, keyed, modular wiring system is ideal for lighting designers, contractors and OEMs that want flexibility in distributing power to various lighting systems and other electrical devices common in all buildings. The inherent multiple branch circuit capability simplifies cabling in the premises and its circular form factor makes routing during installation a breeze when compared with the rectangular electrical connection systems in the market.


LUMINAIRE SYSTEMS

The NECTOR M power system offers flexibility in lighting luminaire designs and can be seamlessly integrated into existing or new construction. The 3 Pole system is ideal for use in ceiling, wall, pendant, and furniture lighting fixtures that require a ground connection in residential or commercial retail spaces. The multi-phase, 5 Pole system provides the power and signal connections required in horticultural and emergency lighting applications. The multi-phase 7 Pole system provides additional power and signal connections for use in emergency lighting systems (mainly in markets using BT standard) and for color control lighting capability.


NECTOR 3 POLE SOCKET CONNECTOR, FREE HANGING, UNSEALED



| A - Socket Cap | TE Part Number | Color |
|---|----------------|-------|
|  | 293596-1 | Gray |
| 293596 | | |

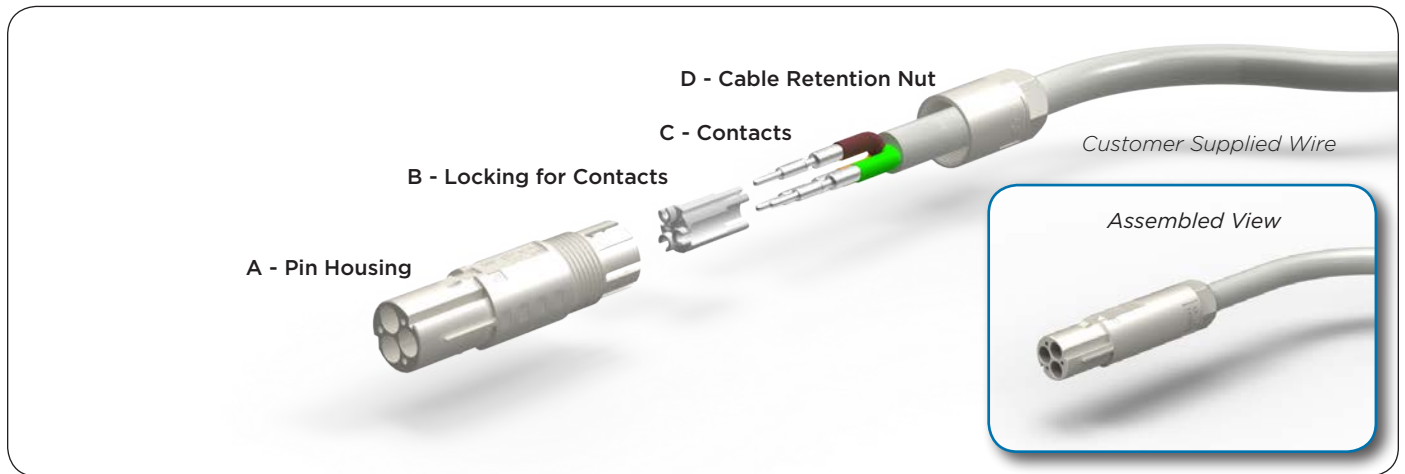
| C - Locking for Contacts | TE Part Number | Color |
|--|----------------|---------|
|  | 293470-1 | Natural |
| 293470 | | |


| B - Socket Housing | TE Part Number | Color | Polarization Code |
|--------------------|----------------|---------|-------------------|
| | 293468-1 | Natural | A |
| 293468-2 | Natural | B | |
| 293468-3 | Natural | C | |
| 293468-4 | Natural | D | |
| 293468-5 | Natural | E | |
| 293468-6 | Natural | F | |
| 293468 | 1-293468-1 | Black | A |
| | 1-293468-2 | Black | B |
| | 1-293468-3 | Black | C |
| | 1-293468-4 | Black | D |
| | 1-293468-5 | Black | E |
| | 1-293468-6 | Black | F |


| D - Socket Contacts | TE Part Number | Cable Size |
|--|----------------|---------------------------|
|  | 293475-2 | 1.5 mm ² Cable |
| | 1-293475-2 | 2.5 mm ² Cable |
| 293475 | | |


| E - Cable Retention Nut | TE Part Number | Cable Size | Color |
|-------------------------|---------------------|---------------------|---------|
| | 293607-1 | 1.5 mm ² | Natural |
| 293607-2 | 2.5 mm ² | Natural | |
| 293607 | 1-293607-1 | 1.5 mm ² | Black |
| | 1-293607-2 | 2.5 mm ² | Black |


NECTOR 3 POLE PIN CONNECTOR, FREE HANGING, UNSEALED




| A - Pin Housing | TE Part Number | Color | Polarization Code |
|--|----------------|---------|-------------------|
|  293469 | 293469-1 | Natural | A |
| | 293469-2 | Natural | B |
| | 293469-3 | Natural | C |
| | 293469-4 | Natural | D |
| | 293469-5 | Natural | E |
| | 293469-6 | Natural | F |
| | 1-293469-1 | Black | A |
| | 1-293469-2 | Black | B |
| | 1-293469-3 | Black | C |
| | 1-293469-4 | Black | D |
| | 1-293469-5 | Black | E |
| | 1-293469-6 | Black | F |

| D - Cable Retention Nut | TE Part Number | Cable Size | Color |
|--|----------------|---------------------|---------|
|  293607 | 293607-1 | 1.5 mm ² | Natural |
| | 293607-2 | 2.5 mm ² | Natural |
| | 1-293607-1 | 1.5 mm ² | Black |
| | 1-293607-2 | 2.5 mm ² | Black |

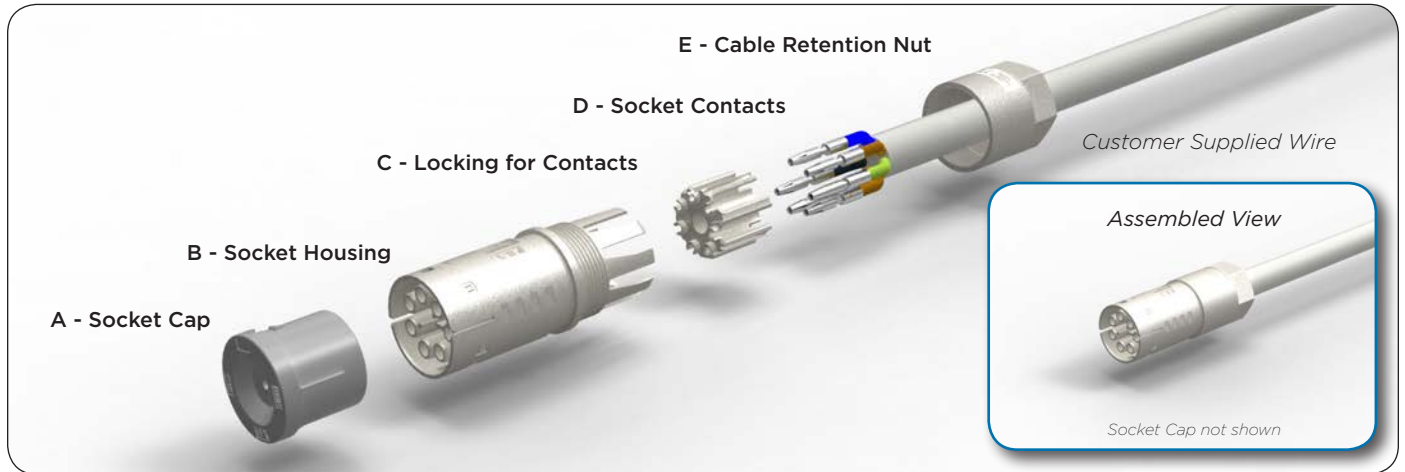
| B - Locking for Contacts | TE Part Number | Color |
|---|----------------|---------|
|  293470 | 293470-1 | Natural |


| C - Contacts | TE Part Number | Cable Size |
|---|----------------|---------------------------|
|  293476 | 293476-2 | 1.5 mm ² Cable |
| | 1-293476-2 | 2.5 mm ² Cable |


3 POLE T-SPLITTER CONNECTOR

| T-Splitter | TE Part Number | Color | Polarization Code |
|--|----------------|---------|-------------------|
|  293611 | 293611-1 | Natural | A |
| | 293611-2 | Natural | B |
| | 293611-3 | Natural | C |
| | 293611-4 | Natural | D |
| | 293611-5 | Natural | E |
| | 293611-6 | Natural | F |
| | 1-293611-1 | Black | A |
| | 1-293611-2 | Black | B |
| | 1-293611-3 | Black | C |
| | 1-293611-4 | Black | D |
| | 1-293611-5 | Black | E |
| | 1-293611-6 | Black | F |


NECTOR 5, 6 & 7 POLE SOCKET CONNECTOR, FREE HANGING, UNSEALED




| A - Socket Cap | TE Part Number | Color |
|---|----------------|-------|
|  293682 | 293682-1 | Gray |

| C - Locking for Contacts | TE Part Number | Color |
|--|----------------|---------|
|  293658 | 293658-1 | Natural |

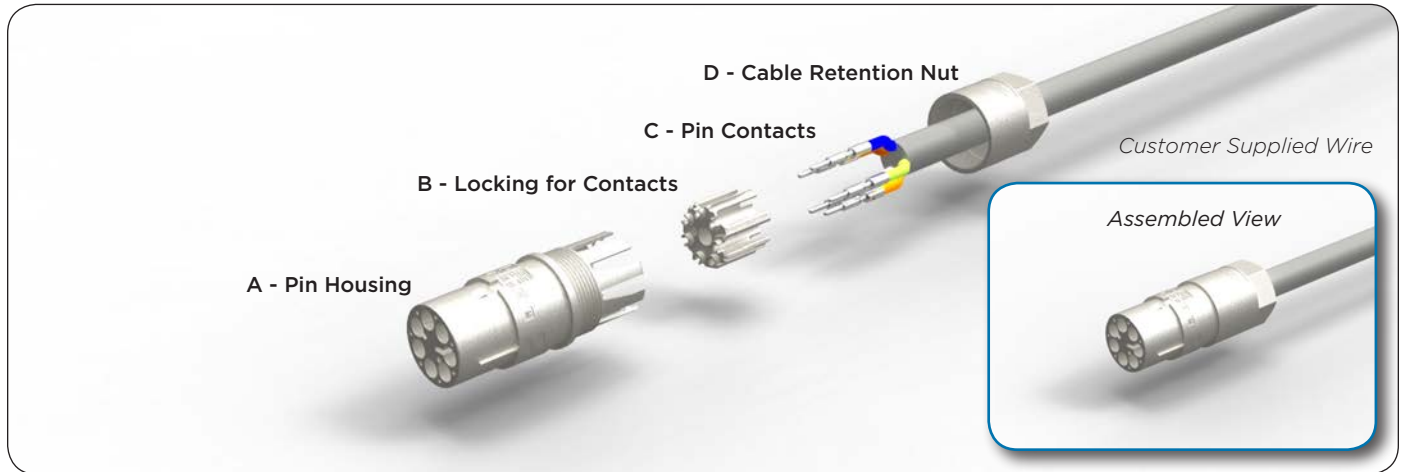
| B - Socket Housing | TE Part Number | Pole Count |
|---|----------------|------------|
|  | 293615 | 5 pole |
| | 293656 | 6 pole |
| | 293721 | 7 pole |

| D - Socket Contacts | TE Part Number | Cable Size |
|--|----------------|---------------------------|
|  | 293475-2 | 1.5 mm ² Cable |
| 293475 | 1-293475-2 | 2.5 mm ² Cable |

| TE Part Number 5 pole | TE Part Number 6 pole | TE Part Number 7 pole | Color | Polarization Code |
|-----------------------|-----------------------|-----------------------|---------|-------------------|
| 293615-1 | | 293721-1 | Natural | A |
| 293615-2 | | 293721-2 | Natural | B |
| 293615-3 | 293656-3 | 293721-3 | Natural | C |
| 293615-4 | 293656-4 | 293721-4 | Natural | D |
| 293615-5 | 293656-5 | 293721-5 | Natural | E |
| 1-293615-1 | | 1-293721-1 | Black | A |
| 1-293615-2 | | 1-293721-2 | Black | B |
| 1-293615-3 | 1-293656-3 | 1-293721-3 | Black | C |
| 1-293615-4 | 1-293656-4 | 1-293721-4 | Black | D |
| 1-293615-5 | 1-293656-5 | 1-293721-5 | Black | E |

| E - Cable Retention Nut | TE Part Number | Cable Size | Color |
|--|----------------|------------|---------|
|  293660 | 293660-3 | 5G x 2.5 | Natural |
| | 293660-4 | 6G x 2.5 | Natural |
| | 293660-5 | 7G x 2.5 | Natural |
| | 1-293660-3 | 5G x 2.5 | Black |
| | 1-293660-4 | 6G x 2.5 | Black |
| | 1-293660-5 | 7G x 2.5 | Black |

NECTOR 5, 6 & 7 POLE PIN CONNECTOR, FREE HANGING, UNSEALED



A - Pin Housing



293616 5 pole
 293657 6 pole
 293722 7 pole

| TE Part Number 5 pole | TE Part Number 6 pole | TE Part Number 7 pole | Color | Polarization Code |
|--------------------------|--------------------------|--------------------------|---------|-------------------|
| 293616-1 | | 293722-1 | Natural | A |
| 293616-2 | | 293722-2 | Natural | B |
| 293616-3 | 293657-3 | 293722-3 | Natural | C |
| 293616-4 | 293657-4 | 293722-4 | Natural | D |
| 293616-5 | 293657-5 | 293722-5 | Natural | E |
| 1-293616-1 | | 1-293722-1 | Black | A |
| 1-293616-2 | | 1-293722-2 | Black | B |
| 1-293616-3 | 1-293657-3 | 1-293722-3 | Black | C |
| 1-293616-4 | 1-293657-4 | 1-293722-4 | Black | D |
| 1-293616-5 | 1-293657-5 | 1-293722-5 | Black | E |

B - Locking for Contacts



293658

TE Part Number Color

293658-1 Natural

C - Pin Contacts



293476

TE Part Number Cable Size

293476-2 1.5 mm² Cable

1-293476-2 2.5 mm² Cable

E - Cable Retention Nut



293660

TE Part Number Cable Size Color

293660-3 5G x 2.5 Natural

293660-4 6G x 2.5 Natural

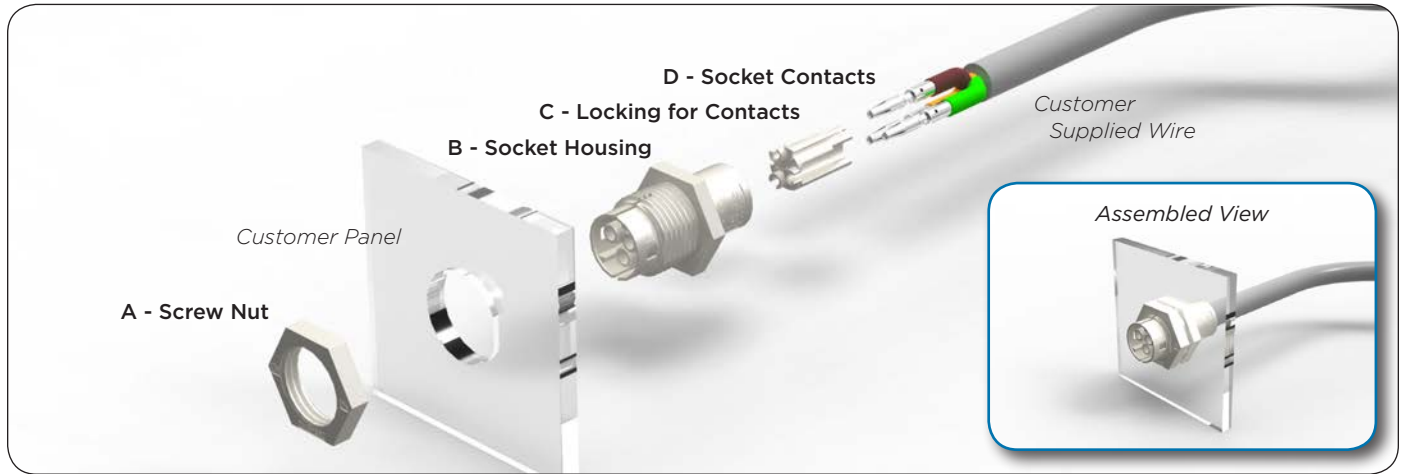
293660-5 7G x 2.5 Natural


1-293660-3 5G x 2.5 Black


1-293660-4 6G x 2.5 Black


1-293660-5 7G x 2.5 Black


NECTOR 3 POLE SOCKET CONNECTOR, PANEL MOUNT, UNSEALED



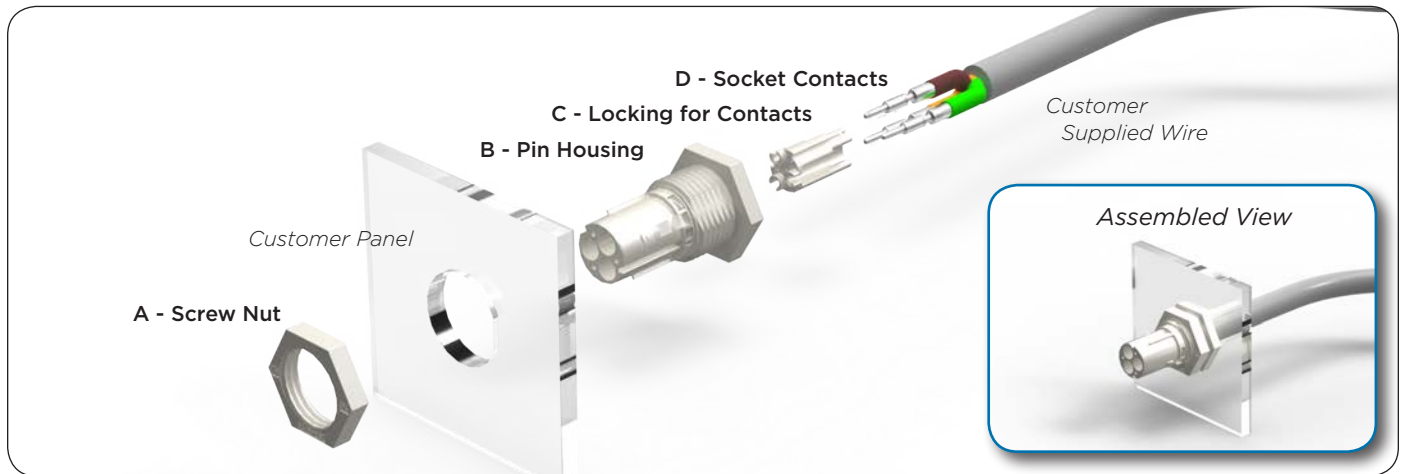
| A - Screw Nut | TE Part Number | Color |
|---|----------------|---------|
|  293481 | 293481-1 | Natural |
| | 1-293481-1 | Black |


| C - Locking for Contacts | TE Part Number | Color |
|--|----------------|---------|
|  293470 | 293470-1 | Natural |


| B - Socket Housing | TE Part Number | Color | Polarization Code |
|---|----------------|---------|-------------------|
|  293606 | 293606-1 | Natural | A |
| | 293606-2 | Natural | B |
| | 293606-3 | Natural | C |
| | 293606-4 | Natural | D |
| | 293606-5 | Natural | E |
| | 293606-6 | Natural | F |
| | 1-293606-1 | Black | A |
| | 1-293606-2 | Black | B |
| | 1-293606-3 | Black | C |
| | 1-293606-4 | Black | D |
| | 1-293606-5 | Black | E |
| | 1-293606-6 | Black | F |


| D - Socket Contacts | TE Part Number | Cable Size |
|--|----------------|---------------------------|
|  293475 | 293475-2 | 1.5 mm ² Cable |
| | 1-293475-2 | 2.5 mm ² Cable |


NECTOR 3 POLE PIN CONNECTOR, PANEL MOUNT, UNSEALED



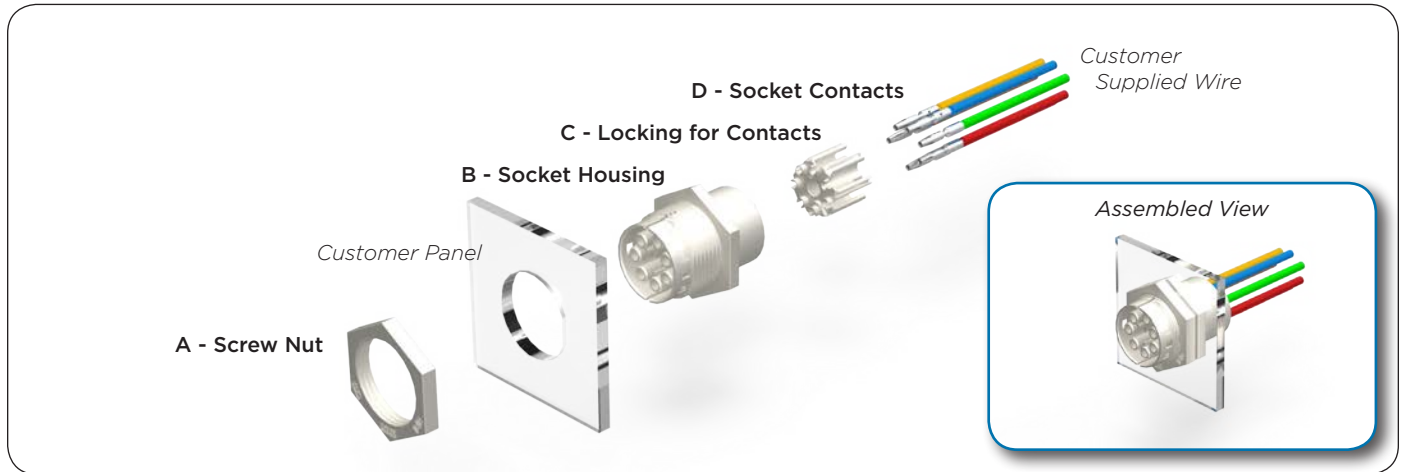
| A - Screw Nut | TE Part Number | Color |
|---|----------------|---------|
|  293481 | 293481-1 | Natural |
| | 1-293481-1 | Black |

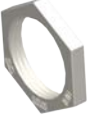
| C - Locking for Contacts | TE Part Number | Color |
|--|----------------|---------|
|  293470 | 293470-1 | Natural |


| B - Pin Housing | TE Part Number | Color | Polarization Code |
|---|----------------|---------|-------------------|
|  293469 | 293598-1 | Natural | A |
| | 293598-2 | Natural | B |
| | 293598-3 | Natural | C |
| | 293598-4 | Natural | D |
| | 293598-5 | Natural | E |
| | 293598-6 | Natural | F |
| | 1-293598-1 | Black | A |
| | 1-293598-2 | Black | B |
| | 1-293598-3 | Black | C |
| | 1-293598-4 | Black | D |
| | 1-293598-5 | Black | E |
| | 1-293598-6 | Black | F |

| C - Pin Contacts | TE Part Number | Cable Size |
|--|----------------|---------------------------|
|  293476 | 293476-2 | 1.5 mm ² Cable |
| | 1-293476-2 | 2.5 mm ² Cable |


NECTOR 5, 6 & 7 POLE SOCKET CONNECTOR, PANEL MOUNT, UNSEALED



| A - Screw Nut | TE Part Number | Color |
|---|----------------|---------|
|  | 293708-1 | Natural |
| | 1-293708-1 | Black |
| 293708 | | |

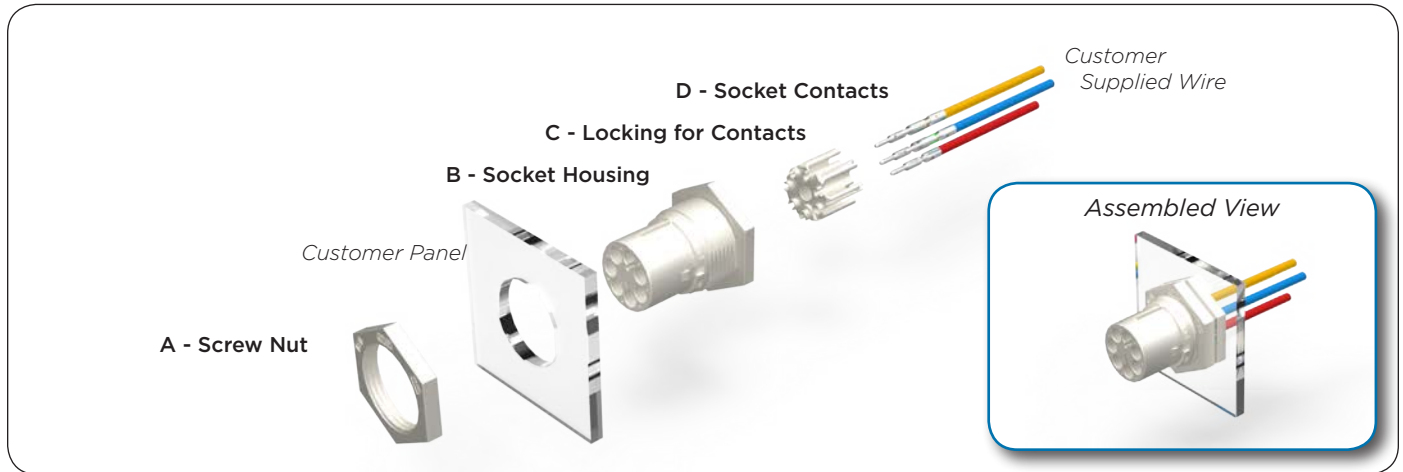
| C - Locking for Contacts | TE Part Number | Color |
|--|----------------|---------|
|  | 293658-1 | Natural |
| 293658 | | |

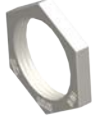
| B - Socket Housing | TE Part Number | Pole Count |
|---|----------------|------------|
|  | 293687 | 5 pole |
| | 293673 | 6 pole |
| | 293773 | 7 pole |


| D - Socket Contacts | TE Part Number | Cable Size |
|--|----------------|---------------------------|
|  | 293475-2 | 1.5 mm ² Cable |
| | 1-293475-2 | 2.5 mm ² Cable |
| 293475 | | |

| TE Part Number 5 pole | TE Part Number 6 pole | TE Part Number 7 pole | Color | Polarization Code |
|-----------------------|-----------------------|-----------------------|---------|-------------------|
| 293687-1 | | 293773-1 | Natural | A |
| 293687-2 | | 293773-2 | Natural | B |
| 293687-3 | 293673-3 | 293773-3 | Natural | C |
| 293687-4 | 293673-4 | 293773-4 | Natural | D |
| 293687-5 | 293673-5 | 293773-5 | Natural | E |
| | | | | |
| 1-293687-1 | | 1-293773-1 | Black | A |
| 1-293687-2 | | 1-293773-2 | Black | B |
| 1-293687-3 | 1-293673-3 | 1-293773-3 | Black | C |
| 1-293687-4 | 1-293673-4 | 1-293773-4 | Black | D |
| 1-293687-5 | 1-293673-5 | 1-293773-5 | Black | E |
| | | | | |


NECTOR 5, 6 & 7 POLE PIN CONNECTOR, PANEL MOUNT, UNSEALED



| A - Screw Nut | TE Part Number | Color |
|---|----------------|---------|
|  | 293708-1 | Natural |
| | 1-293708-1 | Black |
| 293708 | | |

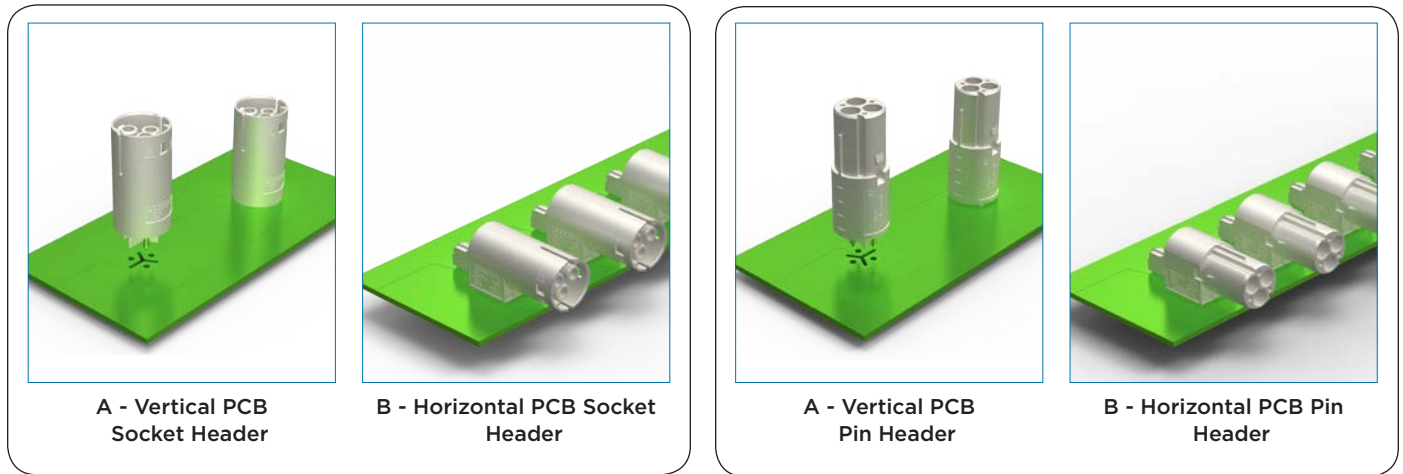
| C - Locking for Contacts | TE Part Number | Color |
|--|----------------|---------|
|  | 293658-1 | Natural |
| 293658 | | |

| B - Socket Housing | TE Part Number | Color | Pole Count |
|---|----------------|---------|------------|
|  | 293688 | Natural | 5 pole |
| | 293674 | Natural | 6 pole |
| | 293774 | Natural | 7 pole |


| C - Pin Contacts | TE Part Number | Cable Size |
|--|----------------|---------------------------|
|  | 293476-2 | 1.5 mm ² Cable |
| | 1-293476-2 | 2.5 mm ² Cable |
| 293476 | | |

| TE Part Number 5 pole | TE Part Number 6 pole | TE Part Number 7 pole | Color | Polarization Code |
|-----------------------|-----------------------|-----------------------|---------|-------------------|
| 293688-1 | | 293774-1 | Natural | A |
| 293688-2 | | 293774-2 | Natural | B |
| 293688-3 | 293674-3 | 293774-3 | Natural | C |
| 293688-4 | 293674-4 | 293774-4 | Natural | D |
| 293688-5 | 293674-5 | 293774-5 | Natural | E |
| 1-293688-1 | | 1-293774-1 | Black | A |
| 1-293688-2 | | 1-293774-2 | Black | B |
| 1-293688-3 | 1-293674-3 | 1-293774-3 | Black | C |
| 1-293688-4 | 1-293674-4 | 1-293774-4 | Black | D |
| 1-293688-5 | 1-293674-5 | 1-293774-5 | Black | E |


NECTOR 3 POLE SOCKET & PIN PCB MOUNTED HEADERS



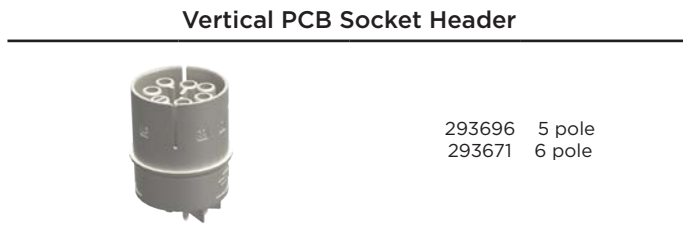
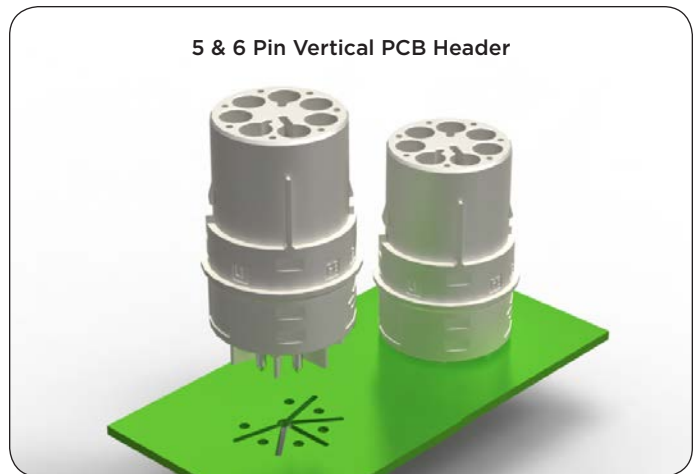
| A - Vertical PCB Socket | TE Part Number | Color | Polarization Code |
|--|----------------|---------|-------------------|
|  293602 | 293602-1 | Natural | A |
| | 293602-2 | Natural | B |
| | 293602-3 | Natural | C |
| | 293602-4 | Natural | D |
| | 293602-5 | Natural | E |
| | 293602-6 | Natural | F |

| A - Vertical PCB Pin | TE Part Number | Color | Polarization Code |
|---|----------------|---------|-------------------|
|  293590 | 293590-1 | Natural | A |
| | 293590-2 | Natural | B |
| | 293590-3 | Natural | C |
| | 293590-4 | Natural | D |
| | 293590-5 | Natural | E |
| | 293590-6 | Natural | F |

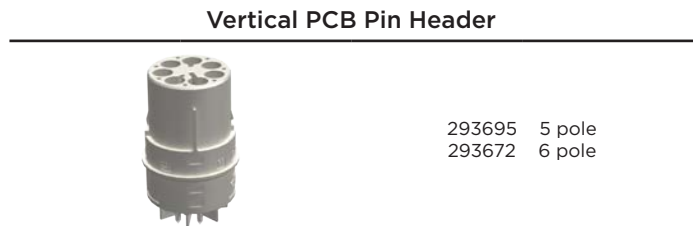
| B - Horizontal PCB Socket | TE Part Number | Color | Polarization Code |
|---|----------------|---------|-------------------|
|  293605 | 293605-1 | Natural | A |
| | 293605-2 | Natural | B |
| | 293605-3 | Natural | C |
| | 293605-4 | Natural | D |
| | 293605-5 | Natural | E |
| | 293605-6 | Natural | F |

| B - Horizontal PCB Pin | TE Part Number | Color | Polarization Code |
|--|----------------|---------|-------------------|
|  293593 | 293593-1 | Natural | A |
| | 293593-2 | Natural | B |
| | 293593-3 | Natural | C |
| | 293593-4 | Natural | D |
| | 293593-5 | Natural | E |
| | 293593-6 | Natural | F |

NECTOR 5 & 6 POLE SOCKET & PIN PCB MOUNTED HEADERS



293696 5 pole
293671 6 pole



293695 5 pole
293672 6 pole

| TE Part Number 5 pole | TE Part Number 6 pole | Color | Polarization Code |
|--------------------------|--------------------------|---------|-------------------|
| 293696-1 | | Natural | A |
| 293696-2 | | Natural | B |
| 293696-3 | 293671-3 | Natural | C |
| 293696-4 | 293671-4 | Natural | D |
| 293696-5 | 293671-5 | Natural | E |

| TE Part Number 5 pole | TE Part Number 6 pole | Color | Polarization Code |
|--------------------------|--------------------------|---------|-------------------|
| 293695-1 | | Natural | A |
| 293695-2 | | Natural | B |
| 293695-3 | 293672-3 | Natural | C |
| 293695-4 | 293672-4 | Natural | D |
| 293695-5 | 293672-5 | Natural | E |

FOR MORE INFORMATION

nectorpower.com

TE Technical Support Center

| | |
|-------------------|--|
| Internet: | te.com/help |
| USA: | +1 (800) 522-6752 |
| Canada: | +1 (905) 475-6222 |
| Mexico: | +52 (0) 55-1106-0800 |
| Latin/S. America: | +54 (0) 11-4733-2200 |
| Germany: | +49 (0) 6251-133-1999 |
| UK: | +44 (0) 800-267666 |
| France: | +33 (0) 1-3420-8686 |
| Netherlands: | +31 (0) 73-6246-999 |
| China: | +86 (0) 400-820-6015 |

Part numbers in this brochure are RoHS Compliant*, unless marked otherwise.

*as defined www.te.com/leadfree

te.com

© 2012 Tyco Electronics Corporation, a TE Connectivity Ltd. company. All Rights Reserved.
5-1773465-6 CIS JG 11/2012

NECTOR, TE Connectivity and the TE connectivity (logo) are trademarks. Other logos, product and/or company names might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

[293607-2](#) [293469-1](#) [293596-1](#) [293611-1](#) [293658-1](#) [293598-1](#) [293476-2](#) [293475-2](#) [293468-1](#) [293607-1](#) [293481-1](#)
[293606-1](#)