THE EVOLUTION OF



POWER INTERCONNECT PORTFOLIO

CONNECT LIKE A PRO

Delivering trusted performance, TE Connectivity's (TE) wire-to-wire, wire-to-board, and wire-to-panel power connectors are engineered to address the most demanding design challenges. TE's connectors combine proven interconnect technology with innovative features like locking capabilities, sealed protection, and vibration resistance, ensuring high reliability and versatility across a variety of applications. TE Connectivity is the power behind the system to ensure seamless connections that stand the test of time.

FROM FAILURE TO FIX: ENSURING RELIABLE CONNECTIONS

Connector failure often stems from improper installation, backout, or harsh environmental conditions. These issues can cause inefficiencies or even lead to system downtime. ExploreTE's portfolio of power connectors that are designed to resist extreme environments, maintain secure connections, and handle high electrical loads, ensuring reliable performance even in the most demanding situations.



POWER CONNECTORS BUILT FOR PERFORMANCE

UNIVERSAL MATE-N-LOK CONNECTORS

- Industry-standard power connector for a variety of applications
- Housings that feature positive polarization, positive locking, and rear cavity identification for easy, error-resistant assembly
- Resistant to high-current shock (gold plating options) Cap and plug housings, as well as headers, are available in material meeting UL 94 V-0 and the
- Glow Wire test (GWT)
 - Splash proof sealing



IP Rated



MICRO MATE-N-LOK CONNECTORS

- 3mm centerline, Current rating 5A
- Dual beam contact design for reliable interconnection
- Contacts available in strip or loose piece
- Surface mount or through hole headers
- PCB headers are IR reflow process compatible
- Customizable low pitch power connectors
- Positive latching mechanism to prevent unmating





Terminal Position

Assurance



Color and Keying





MINI-MATE-N-LOK CONNECTORS

- Pins and sockets can be accommodated in the same housings
- Contacts fully protected in the housings
- Fully polarized to provide proper plug-to-cap mating incorporating a positive locking mechanism to help prevent accidental disengagement of mated connectors
- Free-hanging or panel mount.
- Test probe contacts available
- Splash proof design
- 4.14mm centerline







Wire-to-Board

Wire-to-Panel





Color and Keying



- Dual locking lances for secure engagement UL 94-V2 Certified
- Industrial and commercial applications
- Polarized and Cavity identification
- Detent and positive locking
- Free hanging and panel mount



Wire-to-Wire

IP Rated





Wire-to-Board

Flame Resistance



MTA 156 IDC CONNECTORS

- Reduce labor, lower costs, and simplify assembly processes
- End to end stackable connectors use insulation displacement contacts (IDC) that allow for wire termination without stripping or crimping
- Connector styles include both closed end and feed-through, with and without locking ramps and polarizing tabs
- Molded ribs on housing do not allow reverse mating
- Contacts are lubricated for fretting corrosion protection One-step assembly, no wire stripping, no contact damage and simpler tooling









WTΜ

Terminal Position Assurance

Wire-to-Board

Insulation Displacement Connector

Flame Resistance

GRACE INERTIA CONNECTORS

- Error Proof Assembly with Inertia Locking
- Design-in variety needed for always-on connectivity
- Lance-less contacts to prevent tangled wires
- Offers optional TPA's in 3.3mm and 3.5mm to ensure contacts are seated and don't back out



Insulation Displacement

Connector

WTB

Flame Resistance



ECONOMY POWER CONNECTORS High amperage power connector – 7.5A (EP),11A (EP II) Low profile mating height

- Polarization
- End to end stackable High Current PCB Connectors
- Audible locking latch for secure connection
- Widely utilized for power circuit applications that require a large current-carrying capacity
- Optional terminal position assurance (TPA)



TPA

Flame Resistance



Color and Keving

POWER DOUBLE LOCK CONNECTORS

- Secondary Locking 14A Power Connectors
- Stackable High Current PCB Connectors
- Audible click when contact is fully inserted into the housing
- Polarizing ribs on plug housing allows for proper mating High-force contacts for use in applications where vibration is prominent
- Lanceless contacts to prevent tangling
- Optional terminal position assurance (TPA)









Wire-to-Panel

Flame Resistance



Terminal Position Assurance







Wire-to-Panel

IP Rated



WTB

Color and Keying



Color and Keying

Assurance

Terminal Position







ΓΡΑ

Wire-to-Wire

Four points of contact between tab and receptacle contacts and alternative mounting methods to reduce movement in vibration applications



Scoop Proof design to allow for blind mating without



Space saving with 5.0mm centerline spacing 18° angled Twist and Lock connector allows for

condensation to drip away from the connection • IP67 optional sealing system

POWER VERSA-LOCK CONNECTORS • Flexible housing design use for both unsealed and sealed applications

POWER TRIPLE LOCK CONNECTORS

risk of bending pins

- Power Connectors with 3-in-1 Locking for reliability (TPA, CPA)
- Tab and receptacle style contacts for more reliable connectivity with asymmetrical design to allow only one way to introduce contact.
- Contacts are lanceless to prevent snag points for wires and lower possibility to be misformed in stamping process
- Robust single latch making housing less complicated. Latch has audible click to ensure housings are fully mated.
- Rear cavity identification to facilitate assembly operation



ΓΡΑ

Terminal Position

Assurance





CPA

WTP

Wire-to-Panel

Assurance

Flame Resistance

POWER KEY CONNECTORS

- Low profile and 5mm pitch
- Easy-to-mate, audible click, positive locking housings
- PCB potting process friendly (gas bubble release)
- Protected locking levers and lanceless contacts Designed to optimize contact seating and prevent
- assembly challenges caused by mis-mating and wire entanglement
- Support efficient assembly with multiple color and physical keying options to prevent mis-mating, as well as housing lances to avoid tangled wires





Terminal Position

Assurance





Flame Resistance

Color and Keying

VAL-U-LOK CONNECTORS

- Housings that accept TPA devices are intermatable with existing VAL-U-LOK connectors and headers • Contacts incorporate features that align with features on the TPA devices to ensure proper interface
- Housings are offered in 3 different materials to allow users to better match their application requirement, Position sizes 2-24 in double row configuration. UL 94 V-0 flammability rating and glow wire tested. MFBL also available in 3 position.
- Vertical headers available with optional polarization pegs and drain holes and offer a blind mate version. Right angle headers offer optional screw mount flanges.

Engineering solutions



ΤΡΑ

Terminal Position

Assurance





Flame Resistance



Color and Keying

CONTACT US ► begin here, connect now!



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