

TE Connectivity's (TE) market-defining technologies and engineering expertise are setting the pace for the future of connectivity. This guide provides a quick view of how TE's newest products provide solutions across a range of market-leading applications.

NEW PRODUCT

Application Guide

November 2023

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5G & WIRELESS EQUIPMENT

TE's broad product portfolio helps address future requirements of wireless networks with a range of next-generation connector and cable assembly product offerings.



a. Wirewound Anti-Surge Resistors Type EP Series

Offers a flame proof coating and is designed and tested to withstand power surges of up to 12KV. Available in extra-small size.



b. SCHRACK Force Guided Relays SR6 Next Generation

With its force guided contacts the state of a contact can be monitored with a diagnostic coverage of approx. 99% (IEC 61508-2) which makes the SR6NG good for safety circuits.

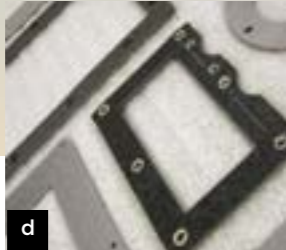
AEROSPACE & SPACE

TE Connectivity's solutions help solve the aviation industry's space, weight, reliability and efficiency challenges.



c. Conductive Elastomers EMI Shielding Solutions

Provide environmental sealing, excellent mechanical functionality, and electromagnetic shielding so your enclosures receive the best protection possible.



d. Oriented Wire EMI Shielding Solutions

Provides environmental sealing, excellent mechanical functionality, and electromagnetic shielding so your enclosures receive the best protection possible with optimal electrical performance.



e. Knitted Wire Mesh EMI Shielding

Provides a cost-effective solution to high shielding performance applications in the magnetic and electrical fields to protect against RF/EMI and EMP. performance computing and server platforms.

Appliances

TE designs solutions to meet the daily demands of home appliances. We can help you enhance the reliability of your connections, improve the efficiency of both your assembly operations and your appliances, and much more.



a. Wirewound Anti-Surge Resistors Type EP Series

Offers a flame proof coating and is designed and tested to withstand power surges of up to 12KV. Available in extra-small size.



b. Cement Housed High Power Resistors - SQ Series

These resistors are suited to a range of areas where low cost, and efficient thermal performance are important design criteria.



e. Mini AMP-IN Board-in Terminals

Contacts provide more flexibility for designing compact PCB systems, as they mount directly to the PCB without a housing, taking up less space than soft shell wire-to-board connectors.



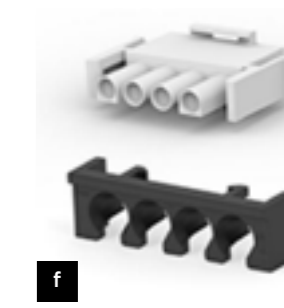
f. Universal MATE-N-LOK connectors secured with terminal position assurance (TPA)

Universal MATE-N-LOK plug and receptacle housings can now be secured with terminal position assurance (TPA) devices.



g. Low Temperature Rise Cluster Block

Meet air conditioner compressor operating temperature requirements with a quick, easy and reliable connection.



h. Positive Lock 4.8mm Receptacles for High Current Tabs

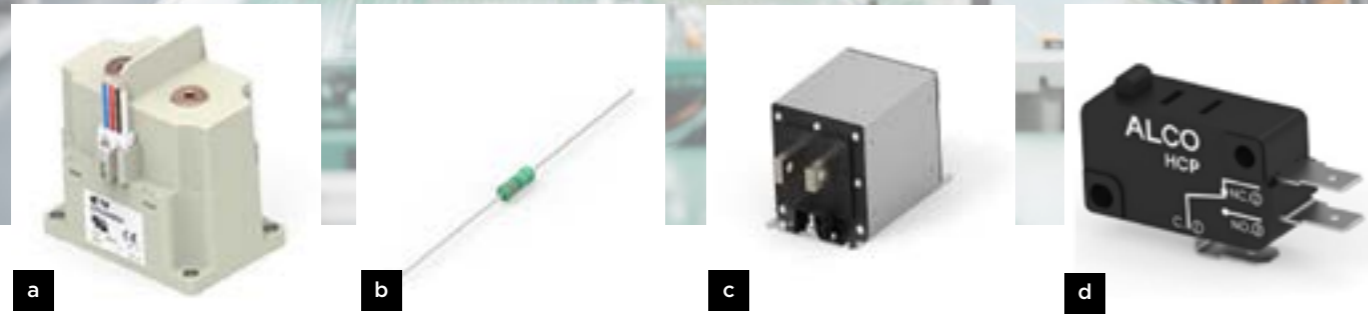
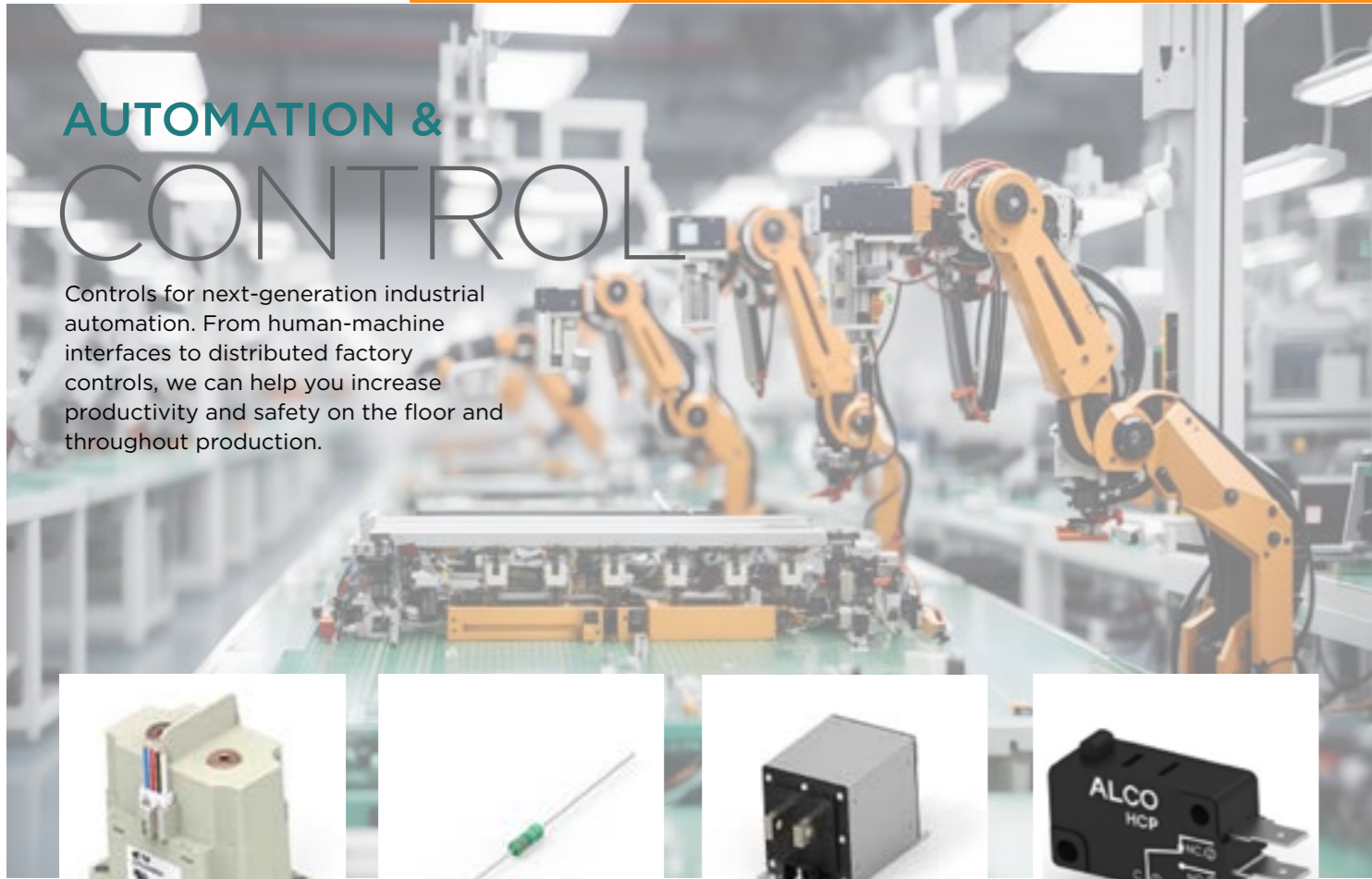
These new receptacles expand on the existing 4.8mm series of Positive Lock receptacles to mate with thicker 0.8mm tabs for higher current applications.

d. VAL-U-LOK PLUS Connectors

Designed to help wire harness and PCB manufacturers streamline sourcing and assembly processes. These 4.20mm pitch connectors feature a one size fits all integrated terminal position assurance (TPA) device.

AUTOMATION & CONTROL

Controls for next-generation industrial automation. From human-machine interfaces to distributed factory controls, we can help you increase productivity and safety on the floor and throughout production.



a. [High Voltage Contactors ECP 150B / 250B / 350B Series](#)

Designed for control in high voltage environment in battery energy storage system, solar inverter and EV charging applications.

b. [Wirewound Anti-Surge Resistors Type EP Series](#)

Offers a flame proof coating and is designed and tested to withstand power surges of up to 12KV. Available in extra-small size.

c. [Corcom EVX Series High Voltage DC EMI Filters](#)

New series of high voltage DC filter provides EMI attenuation for EV Charging Applications and designed to IEC/EN 61851-23 vehicle conductive charging system.

d. [Alcoswitch HCP Series High Current Snap Action Switches](#)

Flexibility through various combinations of lever styles in a higher current rated switch. New current rating options include 10, 16, 20, and 26 amp versions.

e. [SMD Moulded Power Resistors - SMQ Series](#)

AEC-Q200 Qualified version of our SM series surface mount power resistor, also giving UL94V0 flame resistance. Available in 3 ratings up to 3 Watts and supplied on tape and reel for automatic insertion process.

f. [Aluminum Housed Resistor - CJB Series](#)

Manufactured with aluminum sections and with no need of additional heatsinking, this resistor can be used in applications where space is limited.

g. [M8 B-Code 5pin Connector and Cable Assembly](#)

Following the IP65 standard for design, it features a smart design with a low cost. Its snap fit design allows for an easier installation and reduced installation time.



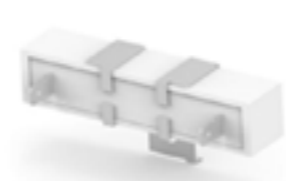
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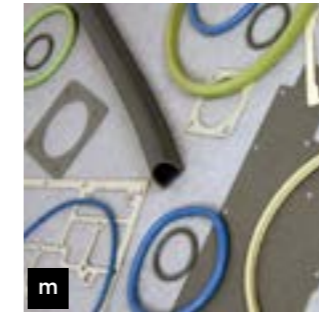
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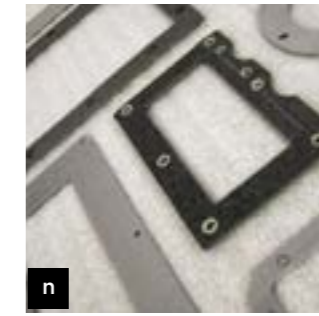
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h. [Cement Housed High Power Resistors - SQ Series](#)

These resistors are suited to a range of areas where low cost, and efficient thermal performance are important design criteria.

i. [SNK Terminal Block for Fuse](#)

Offering world-class certifications with PI-Spring connection (Push-in and Spring mode) that helps fast wiring, and faster accessories mounting.

j. [Miniature SMD Power Inductor - Type 3627 Series](#)

Designed with special ferrite cores for increased performance and reliability. Offered in two variations: 3627 for low DC Resistance and 3627 C for low DC resistance & high current capability with high impedance characteristics.

k. [AMPMODU 2 mm breakout headers, shrouded headers, crimp receptacles](#)

Suitable for use in high-vibration environments and in applications where space is at a premium.

l. [HDC Floating Charge Connector For AGV Charge](#)

This charging connectors innovative technology has excellent capability, with up to 30,000 mating cycles to provide a highly reliable solution.

m. [Conductive Elastomers EMI Shielding Solutions](#)

Provide environmental sealing, excellent mechanical functionality, and electromagnetic shielding so your enclosures receive the best protection possible.

n. [Oriented Wire EMI Shielding Solutions](#)

Provides environmental sealing, excellent mechanical functionality, and electromagnetic shielding so your enclosures receive protection with optimal electrical performance.

o. [Knitted Wire Mesh EMI Shielding](#)

Provides a cost-effective solution to high shielding performance applications in the magnetic and electrical fields to protect against RFI/EMI and EMP.

p. [VAL-U-LOK PLUS Connectors](#)

Designed to help wire harness and PCB manufacturers streamline sourcing and assembly processes. These 4.20mm pitch connectors feature a one size fits all integrated terminal position assurance (TPA) device.

q. [Positive Lock 4.8mm Receptacles for High Current Tabs](#)

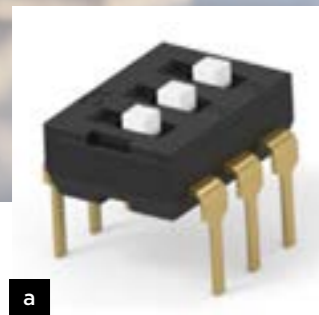
These new receptacles expand on the existing 4.8mm series of Positive Lock receptacles to mate with thicker 0.8mm tabs for higher current applications.

r. [AMP Micro CT Connectors](#)

Provide an economical wire routing solution for power or signal needs, optimizing printed circuit board space savings, efficiency improvements and superior performance.

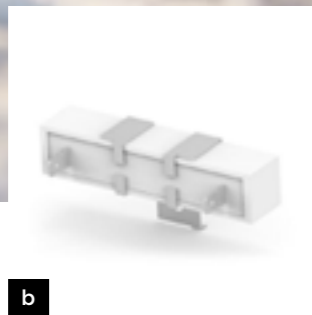
Automotive

We are one of the leading providers of advanced automobile connectivity solutions for body and chassis systems, convenience applications, driver information, infotainment solutions, miniaturization solutions, motor and powertrain applications, and safety and security systems.



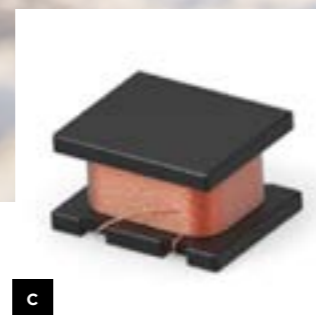
a. Alcoswitch Next Generation Dip Switch - ADE & ADF Series

Designed for space-saving and streamlined manufacturing with high contact pressure allowing for aqueous cleaning without the need for tape sealing.



b. Cement Housed High Power Resistor - SQ Series

These resistors are suited to a range of areas where low cost, and efficient thermal performance are important design criteria.



c. Miniature SMD Power Inductor - Type 3627 Series

Designed with special ferrite cores for increased performance and reliability. Offered in two variations: 3627 for low DC Resistance and 3627 C for low DC resistance & high current capability with high impedance characteristics.



d. X-Series Shuttle Heater: XS-D1

Offers a highly accurate, flexible, and efficient solution for wire configuration for the automotive industry including EV applications.



e. EV single wall (EVSW) heat shrink

Meets the unique challenges of EV applications, delivering a heat shrink tube specifically designed for use to insulate and protect conductive components and cables for operational steadfastness and reliability.



f. Easy Seal Zero Halogen (ESZH) heat Shrink End Splice

Designed to provide environmental sealing, low profile mechanical protection against flexing, abrasion and cut-through as well as electrical insulation.

Autosport

As a market leader and innovator of top-performing motorsport products, TE Connectivity has a deep history of engineering innovative solutions that reliably perform on the race track, one of the world's most harshest environments for technology.



a

a. EV single wall (EVSW) heat shrink

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CONNECTED HOME

With a broad range of connectivity and sensor solutions for smart home appliances and devices, lighting, HVAC, security, and more, TE is the ideal partner to help you bring your products to market fast.



b

b. Mini AMP-IN Board-in Terminals

Contacts provide more flexibility for designing compact PCB systems, as they mount directly to the PCB without a housing, taking up less space than soft shell wire-to-board connectors.



c

c. Low Temperature Rise Cluster Block

Meet air conditioner compressor operating temperature requirements with a quick, easy and reliable connection.

DATA CENTERS & ARTIFICIAL INTELLIGENCE



Our solutions for data center infrastructure enable exceptional data storage and data processing services delivered through data centers built upon an agile, secure and reliable infrastructure, operating at the highest levels of efficiency and availability.

a. Knitted Wire Mesh EMI Shielding

Provides a cost-effective solution to high shielding performance applications in the magnetic and electrical fields to protect against RFI/EMI and EMP.

b. zSFP+ (SFP28/56) Connectors and Cages

Provide comprehensive and customizable solutions to address your I/O interconnects. Designed to transfer data at speeds of up to 28G NRZ and 56G PAM-4 for hyperscale data centers and networking switch applications.

c. QSFP 112G 1XSMT Connector and Cage

Support aggregate data rates of 400Gbps (gigabits per second) with superior signal integrity and meet 112G PAM-4.

DEFENSE & MILITARY



Our portfolio of sub-assemblies features the latest in materials science and product design standards.



d. Conductive Elastomers EMI Shielding Solutions

Provide environmental sealing, excellent mechanical functionality, and electromagnetic shielding so your enclosures receive the best protection possible.

e. ESZH-CAP: Easy Seal, Zero Halogen Heat Shrink End Splice

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f. Oriented Wire EMI Shielding Solutions

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ENERGY SOLUTIONS

You need robust, safe, reliable networks that stand up to modern energy demands. Everything we do focuses on providing solutions that keep your grid connected and the power on.



a. High Voltage Contactors ECP 150B / 250B / 350B Series

Designed for control in high voltage environment in battery energy storage system, solar inverter and EV charging applications.

f. HPC 200A Connector

Focuses on Battery Energy Storage System (BESS) to provide the high safety and reliability solution with one pole 200A/1500V high current connector.

b. Wirewound Anti-Surge Resistors Type EP Series

Offers a flame proof coating and is designed and tested to withstand power surges of up to 12KV. Available in extra-small size.

g. Miniature SMD Power Inductor - Type 3627 Series

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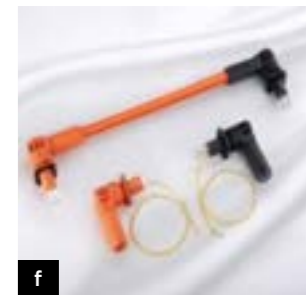
Flexibility through various combinations of lever styles in a higher current rated switch. New current rating options include 10, 16, 20, and 26 amp versions.

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e



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E-MOBILITY

Our products cover the complete spectrum of EV energy transfer, providing safe, reliable, durable, and efficient electrical systems connectivity that meets the increased power ratings and higher thermal and vibration requirements.



a. PowerTube Connector Series

Newest addition to our ever-growing HIVONEX connectors and charging solutions. Built to handle large electrical loads and multiple wire sizes.

b. X-Series Shuttle Heater: XS-D1

Offers a highly accurate, flexible, and efficient solution for wire configuration for the automotive industry including EV applications.

c. EV single wall (EVSW) heat shrink

Meets the unique challenges of EV applications, delivering a heat shrink tube specifically designed for use to insulate and protect conductive components and cables to ensure operational reliability.

INDUSTRIAL MACHINERY

TE's Industrial Machinery solutions provide the basis for flexible production — ensuring you are ready to meet the needs of the future head on.



d. Alcoswitch Next Generation Dip Switch ADE & ADF Series

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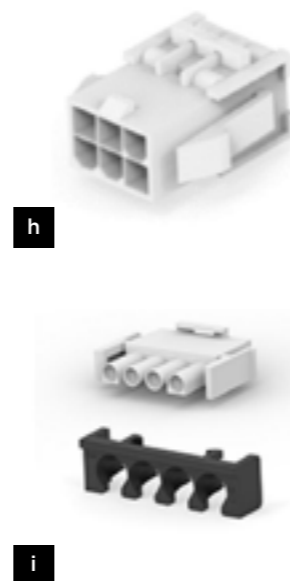
Offers a highly accurate, flexible, and efficient solution for wire configuration for the automotive industry including EV applications.

h. VAL-U-LOK PLUS Connectors

Designed to help wire harness and PCB manufacturers streamline sourcing and assembly processes. These 4.20mm pitch connectors feature a one size fits all integrated terminal position assurance (TPA) device.

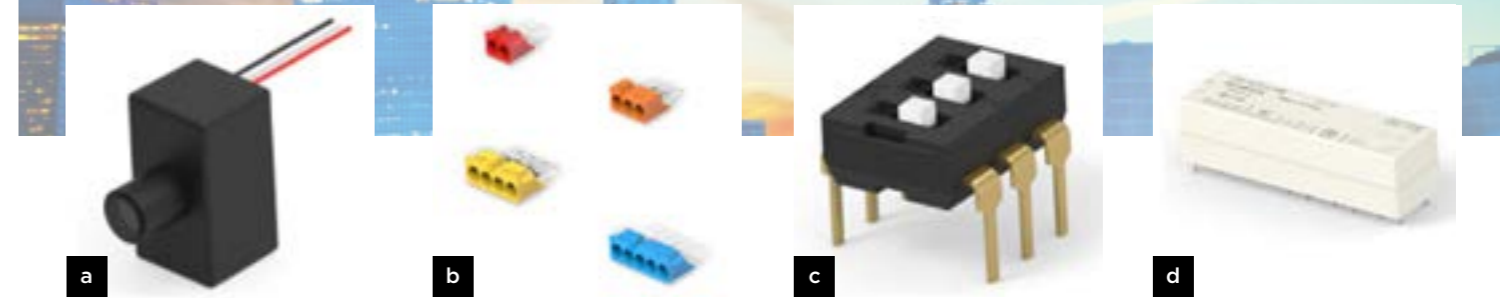
i. Universal MATE-N-LOK connectors secured with terminal position assurance (TPA)

Universal MATE-N-LOK plug and receptacle housings can now be secured with terminal position assurance (TPA) devices.



INTELLIGENT BUILDINGS

Solving your connectivity challenges in linking power and data throughout the building — from environmental and illumination controls, to safety, people flow, convenience, and service equipment.



a. LUMAWISE ALR AA 2000EL Photocell Series

An electronic version of TE's popular AA series button photocell. The device gives dusk and dawn control of incandescent and LED light sources. Rated for greater than 20k operating cycles.

b. Push Grip Wire Connectors

Our latest generation of insulated splice connectors for electrical installations. color coded for easy identification, compact in size to fit into tight spaces and the wires are

c. Alcoswitch Next Generation Dip Switch ADE & ADF Series

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IoT CONNECTIVITY

TE Connectivity's power and signal connector solutions are designed to help address your design challenges head-on to deliver the power you need for always-on connectivity.

e. Conductive Elastomers EMI Shielding Solutions

Provide environmental sealing, excellent mechanical functionality, and electromagnetic shielding so your enclosures receive the best protection possible.

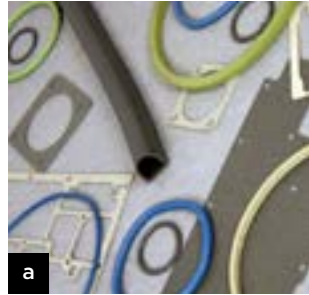
f. Oriented Wire EMI Shielding Solutions

Provides environmental sealing, excellent mechanical functionality, and electromagnetic shielding so your enclosures receive the best protection possible with optimal electrical performance.

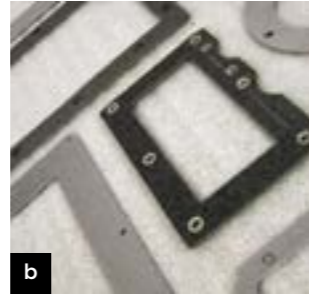


MEDICAL TECHNOLOGIES

We provide top-tier engineering expertise and manufacturing excellence in the development of optimally engineered components and value-added sub-assemblies to support the production of life-saving medical devices used in interventional cardiology, surgery, imaging, in vitro diagnostics, and other medical specialties.



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Modern railways strive to be faster, safer, and more efficient they increase the reliance on connectivity solutions to provide the connection to data and information to better control performance.



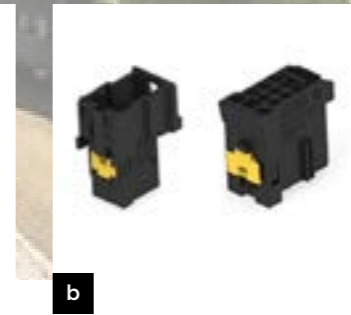
c. Wiring Ducts
The ENTRELEC wiring duct range includes popular profile widths such as 24, 40, 60, 80 100, and 120 mm. The specific design offers many solutions to help optimize and simplify the wiring.

TRUCK, BUS & OFF-ROAD VEHICLES

TE delivers reliable connectivity products designed to withstand harsh environmental conditions for on and off-highway vehicles and recreational transportation.



a. Heavy Duty Sealed Connector Series with MATEnet Inserts
Enables Ethernet connectivity up to 1 Gb on chassis applications in heavy-duty commercial vehicles.



b. AMP MCP Hybrid Coaxial Connectors
Utilizes existing unsealed MCP connectors to provide a coaxial data connection up to 9 GHz and 9 signal/power MCON 1.2 CB terminals to enable the implementation of high-resolution cameras within trucks and buses.



c. X-Series Shuttle Heater: XS-D1
Offers a highly accurate, flexible, and efficient solution for wire configuration for the automotive industry including EV applications. performance in sealed inline applications for industrial and commercial vehicles operating in harsh environments.



d. EV single wall (EVSW) heat shrink
Meets the unique challenges of EV applications, delivering a heat shrink tube specifically designed for use to insulate and protect conductive components and cables to ensure operational steadfastness and reliability.



e. ESZH-CAP: Easy Seal, Zero Halogen Heat Shrink End Splice
Designed to provide environmental sealing, low profile mechanical protection against flexing, abrasion and cut-through as well as electrical insulation.



f. FP40 ultra 4x4 MIMO Up To 14-Port Vehicle Antennas
Provide an all-in-one solution for LTE/5G, Wi-Fi, GNSS and Bluetooth wireless technology in high bandwidth mobile connectivity applications.

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