

ROBOTICS SOLUTIONS

INNOVATIVE INTERCONNECT SOLUTIONS FOR THE MACHINERY INDUSTRY

SMART TECHNOLOGY FOR TODAY AND TOMORROW

Every vision starts with a big idea — and the absolute desire to face new challenges, develop new solutions, and pursue new approaches. Our mission is to provide support for problem solvers throughout the world who are pursuing these approaches. Working together, we can develop outstanding visions from big ideas that turn into innovations to make our world better.

The TE Connectivity 4.0 Manifesto

01.

IDENTIFYING OPPORTUNITIES:
FOR EXCELLENT INTEGRATION — AS EVERY
CONNECTION COUNTS

02.

TAKING UP CHALLENGES:
A NEW GENERATION OF PRODUCTS —
FOR A NEW GENERATION OF CUSTOMER NEEDS

03.

CREATING SOLUTIONS:
YOU CAN RELY ON TE — AND ON INTERCONNECT
SOLUTIONS THAT MEET THE CHALLENGES
OF TOMORROW TODAY

04.

TURNING AIMS INTO REALITY:
GREATER PRODUCTIVITY, GREATER EFFICIENCY,
AND GREATER COST-EFFECTIVENESS — FOR YOU,
YOUR CUSTOMERS, AND A SMARTER WORLD

Industry 4.0 — The Next Industrial Revolution

The rising levels of automation and decentralization of industrial production present major challenges. Now more than ever, automation solutions need to impress with their profitability — through long operating times, optimized energy efficiency, and lower costs.

Industrial production needs to improve in every aspect — both now and in the future — with increased reliability, flexibility, adaptability and decentralization, more automation, and smarter connections. TE Connectivity (TE) offers innovative solutions for enhanced connectivity. From the printed circuit board (PCB) level to the production line, in the toughest production conditions, anywhere in the world.

Connections for a New Generation

Digital technologies of today are key to the factories of tomorrow. These next-generation plants will be at the forefront of technological development and excellently integrate and network the internet, high-tech tools, employees, and systems.

Our engineers here at TE are pioneers of this revolution — we are using our innovations to play a key role in turning the next level of industrial production into reality even faster.

SHAPE THE FUTURE OF ROBOTICS WITH TE SOLUTIONS

Industrial production today is shaped by a market that is changing at an unprecedented speed. Growing demand for personalized products, a never-ending stream of new market requirements, and the need for consistently high product quality make the use of highly advanced production systems a must. Industrial robots provide the basis for this flexible production — helping to ensure you are ready to meet the needs of the future head-on.

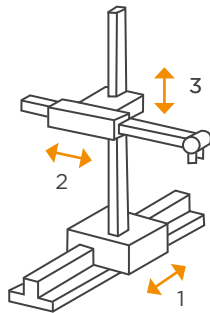
Building a competitive edge. You can rely on TE.

The applications for state-of-the-art industrial robots are growing all the time. From automotive and aircraft construction to the pharmaceutical industry, logistics, and metal or plastics processing — the latest generation of industrial robots can handle ever more complex tasks in a whole range of environments. Flexibility, optimum configuration options, high productivity, and efficiency are the key factors determining your customers' success. As a manufacturer of robot and control technology, you face the constant challenge of making sure you are ready for everything the future brings your way.

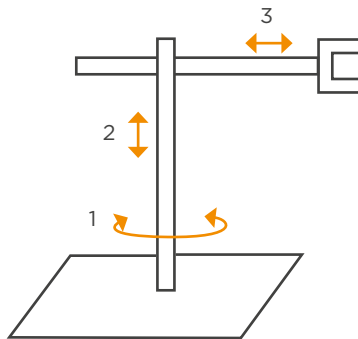
We at TE stand shoulder to shoulder with you in meeting this challenge. Thanks to innovative technology, extensive experience, creativity, and a dynamic approach, we can develop the precise products your company needs. In doing so, we are helping to boost reliability, precision, and energy efficiency to give you a competitive edge on the market.



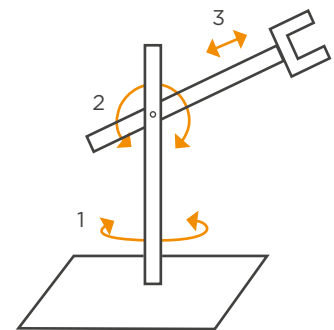
ROBOT CATEGORY



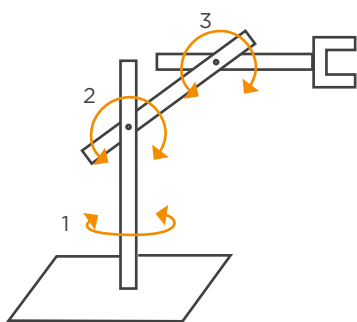
Cartesian Robot



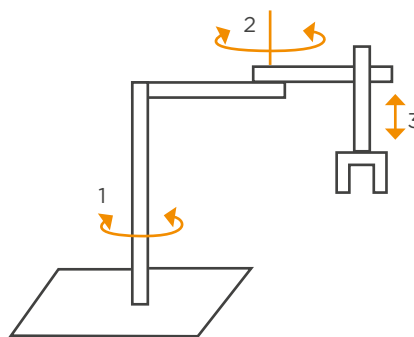
Cylindrical Robot



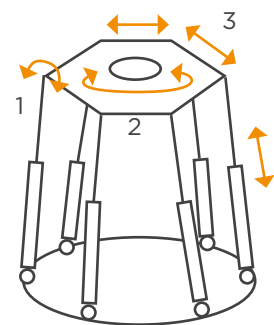
Spherical Robot



Articulated Robot



SCARA Robot



Parallel Robot

ADDITIONAL ROBOT TYPES

Collaborative Robots



Autonomous Vehicles



Drones



Consumer Robots



Mobile Robots



Medical Robots



Service Robots



TE CONNECTIVITY IS THE SOLUTION SELLER FOR ROBOTICS



Robot Arm

- “Input/output (I/O)” I/O connector for extension sensor and visual system
- Robot arm inside connectivity
- Robot I/O connectivity for signal and power
- Ethernet connectivity

Servo Motor and Drive System

- Printed circuit board connectivity
- Industrial communication connectivity
- Relay solutions

Robot Control Cabinet

- Wiring connection solutions
- Controller
- Teach pendant unit connectivity
- Ethernet connectivity

Robot Manipulator, Arm, and Base

- Industrial mini I/O connectors
- AMPLIMITE D-Subminiature connectors
- Circular Plastic Connectors (CPC)
- Heavy Duty Connectors (HDC)
- Industrial RJ45 connectors
- INTERCONTEC connectors
- M8/M12 panel mount connectors
- Mini-Universal MATE-N-LOK connectors
- Safety torque sensors
- Dynamic D1000 SLIM connectors
- Dynamic HDC series

Teach Pendant Unit (TPU)

- Circular Plastic Connectors (CPC)
- Dynamic series connectors
- Heavy Duty Connectors (HDC)
- INTERCONTEC connectors
- ERNI MicroCon connectors
- ERNI MicroStac connectors
- ERNI MicroSpeed connectors
- ERNI SMC
- ERNI MicroSpeed power modules
- ERNI power connectors
- Dynamic HDC series
- Emergency buttons

Robot Controller

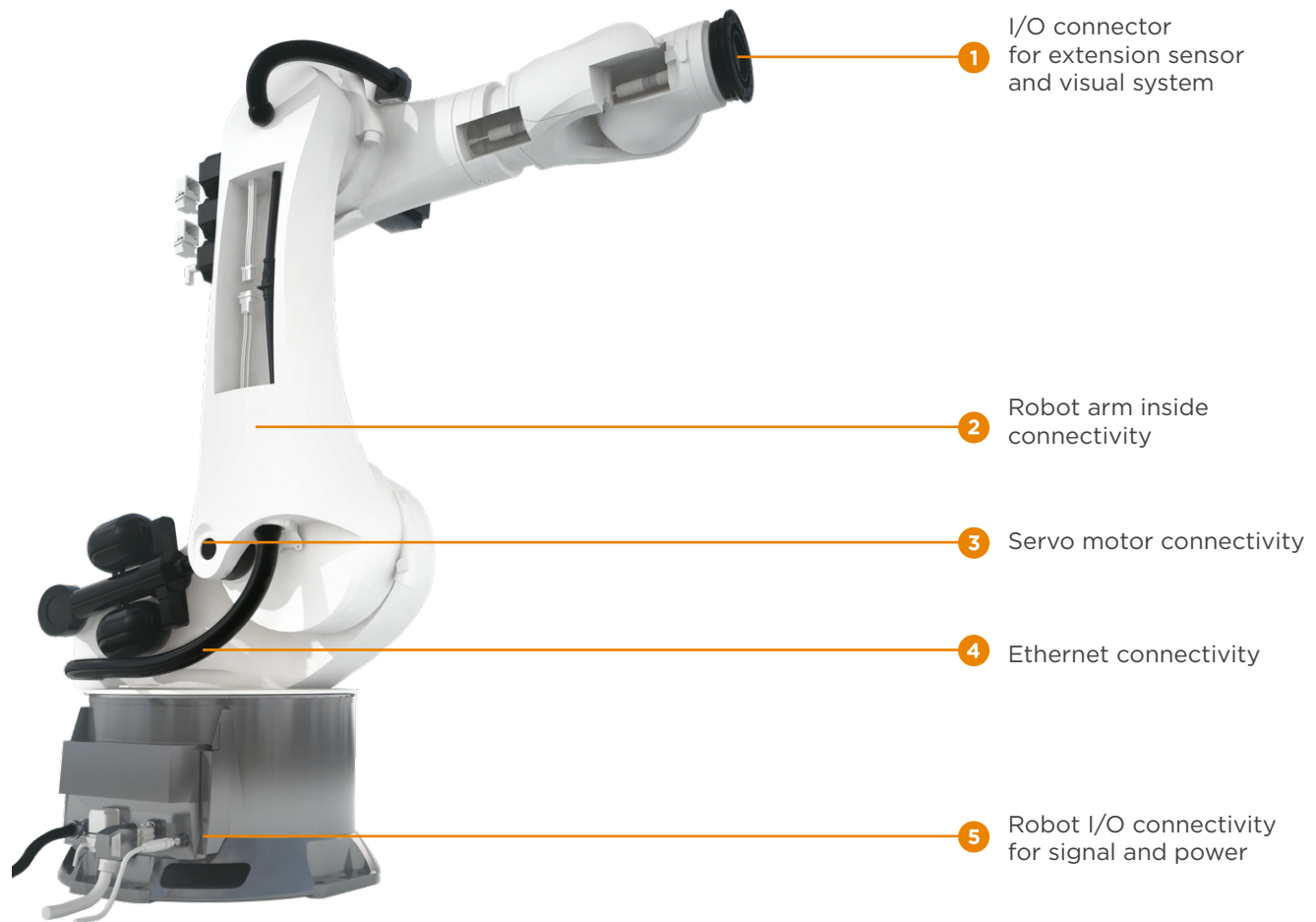
- Power resistors
- AMPMODU interconnect system
- BUCHANAN terminal blocks
- Corcom EMI/RFI filters
- Dynamic series connectors
- ENTRELEC terminal blocks
- Heavy Duty Connectors (HDC)
- Industrial mini I/O connectors
- Industrial RJ45 connectors
- Industrial SCSI connectors
- INTERCONTEC connectors
- M8/M12 connectors
- Micro-MaTch connectors
- ERNI MicroCon connectors
- ERNI MicroStac connectors
- ERNI MicroSpeed connectors
- ERNI SMC
- ERNI MicroSpeed power modules
- ERNI power connectors
- Relays
- Power resistors
- Switches
- Terminals and splices
- Dynamic HDC series
- Emergency buttons

End-of-Arm Technology

- Industrial mini I/O connectors
- Industrial RJ45 connectors
- INTERCONTEC connectors
- M8/M12 panel mount connectors
- Safety torque sensors



Robot Manipulator and End-of-Arm Technology



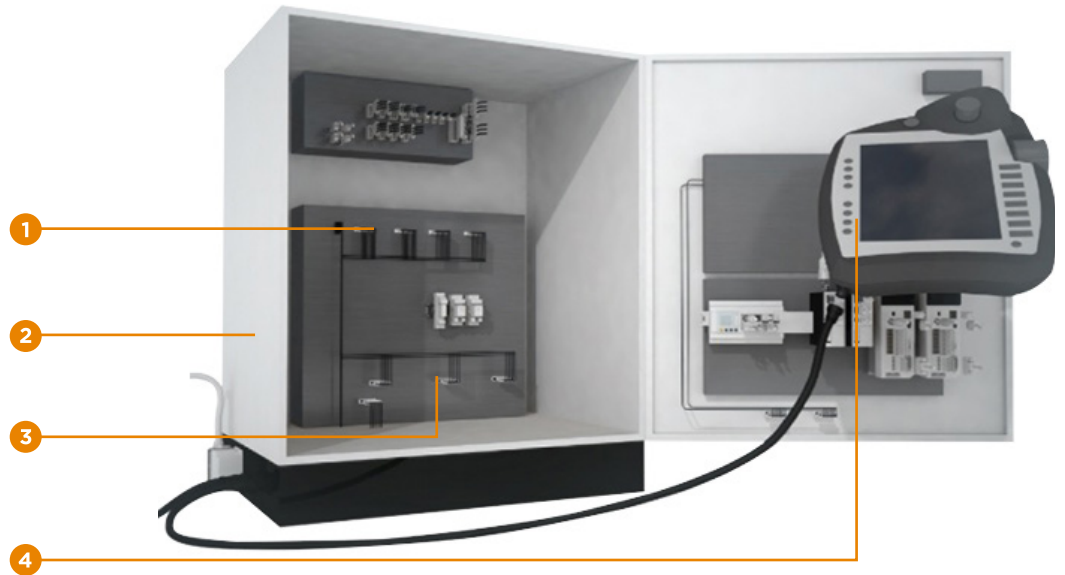
Robot Controller and Teach Pendant Unit (TPU)

Wiring connection
solution in the cabinet

Functional product

Ethernet connectivity

Teach pendant
unit connectivity

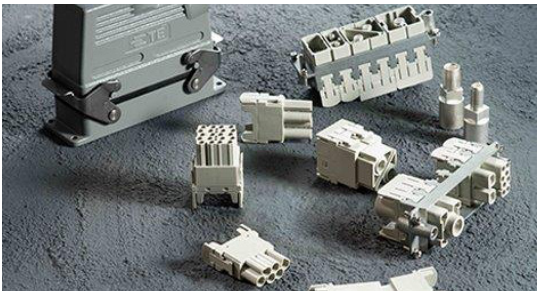


PRODUCT OVERVIEW

CONNECTORS

Heavy Duty Connectors (HDC) with Dynamic Inserts







Industrial motors must often operate reliably in harsh environments, such as high vibration or corrosion. TE offers a broad range of HDCs that are designed for reliable performance under extremely demanding operating and harsh environmental conditions. With a tested salt spray and corrosion resistance of over 500 hours, 200 A, and an IP69K rating, these connectors are suited for industrial motors and various applications in industrial environments. Thanks to their modular system, TE's heavy duty connectors offer power, signal, and data transmission in one connector, covering virtually all motor needs in a compact form. The new Dynamic HDC series makes it possible to reduce cable assembly costs by using semi-automatic or fully-automatic crimping of dynamic contacts. Their compact designs offer users more design flexibility with high density up to 48 contacts and handling over-voltage requirement to 300 V in a single module.



[Click here](#) to learn more about products
Learn more in [Heavy Duty Connectors Guide](#)

Crimp terminal (order crimp contacts separately)

Description		Type	Part Number	
Male Insert	Female Insert		Male Insert	Female Insert
		HQ-005-M	T2080052101-000	-
		HQ-005-F	-	T2080052101-000
		HQ-007-M	T2080072101-000	-
		HQ-007-F	-	T2080072201-000
		HQ-012-M	T2080122101-000	-
		HQ-012-F	-	T2080122201-000
		HQ-003-M	T2080032101-00	-
		HQ-003-F	-	T2080032201-00
		HQ-021-M	T2080212101-007	-
		HQ-021-F	-	T2080212201-007

Description		Type	Part Number	
Male Insert	Female Insert		Male Insert	Female Insert
		HQ-017-M	T2080172101-000	-
		HQ-017-F	-	T2080172201-000
		HQ-4/2-M	T2080062101-100	-
		HQ-4/2-F	-	T2080062201-100
		HQ-008-M	T2019092101-000	-
		HQ-008-F	-	T2019092201-000
		HQ-D-032-M	T2080322101-000	-
		HQ-D-032-F	-	T2080322201-000
		HE-010-MC	T2040104101-000	-
		HE-010-FC	-	T2040104201-000
		HA-010-M	T2010102101-000	-
		HA-010-F	-	T2010102201-000
		HE-010-M	T2040102101-000	-
		HE-010-F	-	T2040102201-000
		HE-010-MS	T2040103101-000	-
		HE-010-FS	-	T2040103201-000
		HE-010-MSS	T2040105101-000	-
		HE-010-FSS	-	T2040105201-000

Learn more in [Heavy Duty Connectors Guide](#)

Description		Type	Part Number	
Male Insert	Female Insert		Male Insert	Female Insert
		HMN-HD1-48-M	2312729-2	-
		HMN-HD1-48-F	-	2312730-2
		HMN-HD1-24-M	2316315-2	-
		HMN-HD1-24-F	-	2316316-2
		HMN-HD1-32-M	T2111322101-00X	-
		HMN-HD1-32-F	-	T2111322201-00X
		HMN-HD3-10-M	2312733-2	-
		HMN-HD3-10-F	-	2312734-2
		HMN-HD4-6-M	2312735-2	-
		HMN-HD4-6-F	-	2312736-2
		HMN-HD5-3-M	2312737-2	-
		HMN-HD5-3-F	-	2312738-2
		HMN-HDW5/3-4/4-M	2312739-2	-
		HMN-HDW5/3-4/4-F	-	2312740-2
		HK-HDW3/1/1-23/16/47-M HK-HDW3/1/1-M	T2120865101-000 T0920013670-00X	-
		HK-HDW3/1/1-23/16/47-F HK-HDW3/1/1-F	-	T2120865201-000 T0920023670-00X

[HDC with Dynamic Inserts flyer](#)

Learn more in [Heavy Duty Connectors Guide](#)

HDC HMN data and power/signal high density modules

HDC HMN modular system, designed for harsh environments and industrial applications, already offers various options for power, signal and data connections. The HDC HMN system serves robotics and automation applications.

[HDC HMN data and power/signal high density modules flyer](#)

M8/M12 Connector System

The connector system for machine industrial automation and control applications provides a solution for the increasing needs of sensor connections that safely and reliably provides for the communication in industrial environments.

This connector system also finds applications outside of its traditional industries where a compact reliable connection system with environmental protection is required. TE's solution includes an extensive connector range of PCB headers, cable assemblies, and I/O boxes, and provides users with an interface that supports higher bandwidth needs – meeting the requirements of up to 10 Gb/s. TE also offers shielded and un-shielded Cat5e and Cat6A cable assembly variants. A predefined offering in lengths of 1, 3, 5, and 10 meters covers a vast range of customer needs on the market. For rewiring on site a range of field serviceable connectors are provided, allowing versatile systems to be quickly and easily established. Additional styles are available on request, including alternative mounting arrangements for panel mount connectors and double-ended cable assemblies.

[Click here](#) to learn more about products



INTERCONTEC




TE's portfolio of INTERCONTEC connectors offers the large variety of easily-installable solutions. Our connectors consist of only a few single parts with a modular architecture, which makes them highly compatible and usable in many different combinations. Outstanding features like the SpeedTec quick locking system, the rotatable housing, or the crown clamp shield termination enable fast and reliable use of the connector system.

















With know-how and market expertise, we challenge existing standards. We take a visionary approach to determine the connector technology of the future to provide our customers with innovative and market-oriented solutions. Our connectors follow highly sophisticated engineering principles safeguarding an extremely easy and efficient assembly process.

Thanks to their reliable performance, the connectors also reduce downtime, making your motor applications more productive.

[Click here](#) to learn more about products

Power Connectors	Signal Connectors	Hybrid Connectors
		
912	615	723
915	617	740
917	623	
923	627	
940		
958		

Locking System Connector			SpeedTec Locking System	locktec / 4.tec Connector	singletec Connector	htec Connector
Connector	itec Connector	ytec Connector	-	-	-	-
						
Quick lock fastener fully connected with just a click, self locking connection	itec connector is available in all ytec pin layouts and is compatible with all mating ytec plugs	The ytec connectors system requires only one mounting flange	Quick lock fastener fully connected with just an eighth rotation	Assembled connectors with the characteristics of a molded version	One single-pin power connector	Power, signal, and data in one connector

Plug	Plug, angled	Bulkhead	Extension	Extension, angled	Receptacle	Receptacle, angled
						
Cable connector with coupling nut	Angled cable connector with coupling nut	Device connector with coupling nut; Interface: flange, thread, lock nut, etc.	Cable connector with outside thread	Angled cable connector with outside thread	Device connector with outside thread	Angled device connector with outside thread

Dynamic Series

The Dynamic Series connector product family provides solutions ranging from signal level circuitry through power circuit connectivity in a ruggedized, industrialized package. The connector family is designed for use in control system applications and is suitable for a wide range of applications requiring high density, signal, and power applications.

Dynamic Series consists of wire-to-board (WTB), wire-to-panel (WTP), and wire-to-wire (WTW) connectors with diverse housings available to meet most applications. Standard crimp and spring clamp variations of parts are available. The standardized contacts limit the amount of application tooling required.



RoHS
Ready 

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[Dynamic Series Connectors brochure](#)

Dynamic Series Family Overview

Its platform design is suitable for a broad range of applications requiring low level signal through high current power circuits. The centralized wiring system saves time and money by offering a modular capability to expand as needed.



Series		D1000	D2000	D3000	D4000	D5000	D7000
Maximum Rating (A)		5	5	15	24	45	65
Maximum Rating (V)		250	250	600	600	630	630
Maximum Durability (Mating Cycles)		50	500	500	25	50	20
IP Protection Class						10, 20	20
x100	Standard	4-44 ●	3-50 ●	3-20 ●			4 ●
x200	High Voltage	2-20 ●		2-20 ●	2-6 ●	2-8 ●	
x300	Reverse					3-4 ●	4 ●
x400	Sky Scraper			12-20 ●			
x500	Module	3-36 ●		2-20 ●			
x600	Hybrid		48 ●				

Not all types of Dynamic series are shown in this guide. For a complete listing please refer to the product [catalog](#).
Available connector position sizes are shown in grey
Safety Standards: ●
UL: E28476
CSA: LR7189

VERTE



Series		D1000	D2000	D3000	D4000	D5000	D7000
x700	Motor			6 ●			
x800	HTS Module		30 ●	12 ●	8 ●	4 ●	
x900	Spring Clamp	8-38 ●		3-11 ●			
Cable Clamp		10 ●				3-4 ●	4 ●
DZ	Board to Board					3-7	
Dynatap				18-24 ●		12 ●	

Not all types of Dynamic series are shown in this guide. For a complete listing please refer to the product [catalog](#).

Available connector position sizes are shown in grey

Safety Standards: ●

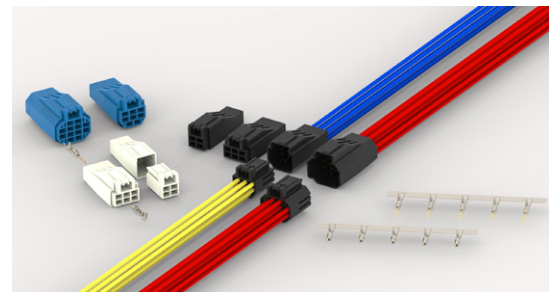
UL: E28476

CSA: LR7189

Dynamic D1000 SLIM wire-to-wire connector

Dynamic D1000 SLIM small wire-to-wire connector is suitable for narrow spaces in small industrial equipment and small machinery applications. The size of the D1000 is 80% smaller than the D1200 series with low interference risk and streamlined design. Keying and the locking feature provides reliability and reduces unexpected unmating and lever breakage in narrow spaces such as robotic arms and other customer applications.

[Dynamic D1000 SLIM wire-to-wire connector flyer](#)



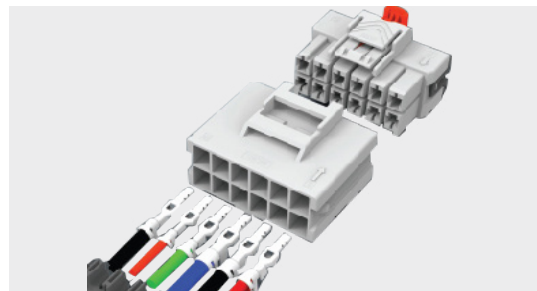
Benefits:

- Smaller size increases the connectivity per used space
- Reducing risk of connector breakage by interference in narrow space
- Reliability increased as the user can hear when connector is properly locked
- Easy mating and crimping process to speed up installation time

Power Triple Lock Connectors

WTW solution with a 6.0 mm centerline. Rated up to 20 A, 600 V. Designed for better power and signal applications. Locks in three ways and offers an optional terminal position assurance (TPA) device that helps ensure that terminals are fully seated and remain that way. Three material options support standard 105°C, high temperature 150°C, and glow wire applications.

[Click here](#) to learn more about products



Power Double Lock Connectors

WTW and WTB connectors available on a 3.96 mm, 6.5 mm, 7.92 mm, and 13.0 mm centerline designed for use in power circuit applications. Offers secondary locking. Rated up to 14 A, 300 V. Available in 1-12 positions and UL recognized, CSA certified and VDE approved flame retardant.

[Click here](#) to learn more about products



Power Key Connectors

WTB power circuit connector with a 5.0 mm centerline. Built to help optimize contact seating and proper mating to the PCB header. Designed to reduce bubbles created by PC board coating process. Rated up to 10 A, 300 V. With an audible click to help confirm that contacts are inserted.

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GRACE INERTIA 2.5 mm Connectors

Compact WTW and WTB connectors with a 2.5 mm centerline to save space. The inertia locking mechanism helps prevent connectors from being disconnected during movement and helps prevent defective products caused by half mating. Up to 3 A max, 50 V. Optional terminal position assurance (TPA) provides extra protection against contact backout.

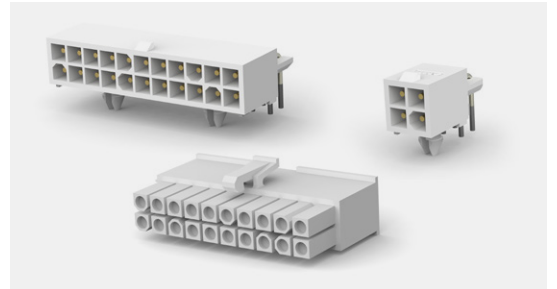
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Mini-Universal MATE-N-LOK Connectors

System offers WTW and WTB connections with contacts on a 4.14 mm [.163] centerline and current ratings up to 9.5 Amps max. per line. Plug and receptacle housings allow WTW and WTP configurations, and header assemblies offer WTB connections in vertical and right angle configurations. The Mini-Universal MATE-N-LOK connector system also offers a splash-proof design allowing for use in areas where high humidity, intermittent liquid splashing or foam-in applications require a sealed connector for improved electrical performance.

[Click here](#) to learn more about products
[Mini-Universal MATE-N-LOK Connectors Quick Reference Guide](#)



Micro MATE-N-LOK Connectors

Low-profile connectors that have a vertical height of less than 4.7 mm. Rated up to 5 A, 250 V. Polarized housings significantly reduce connector mis-mating, and positive latching feature significantly reduces un-mating; 2-4 positions available.

[Click here](#) to learn more about products



Signal Double Lock Connectors

Compact, 2.5 mm centerline, signal circuit solution for use where space is at a premium. Rated up to 3 A max. Designed for reliability with a double lock plate that helps to ensure correct loading and mating of contacts in the housing. IP67 rated water- and dust-resistant sealing options available.

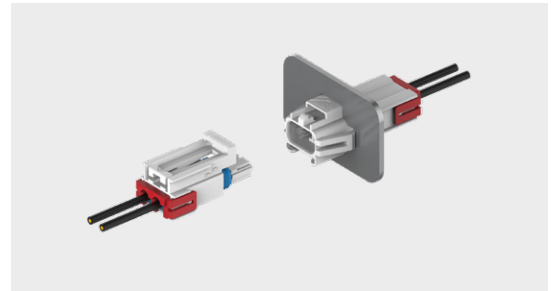
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Power Versa-Lock Connectors

High-performing and versatile wire-to-wire power solution with optional IP67 rated protection from water and dust. The Power Versa-Lock connector system was designed to offer a compact, space-saving 5.0 mm centerline spacing and utilizes tab and receptacle contacts to provide four points of contact for enhanced reliability.

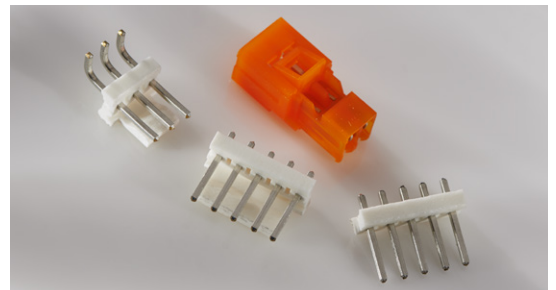
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MTA Connectors

WTW and WTB connector systems can reduce labor costs by utilizing insulation displacement contact (IDC) technology to simplify assembly processes. MTA 100 offers a 2.54 mm centerline in 2-28 positions, rated up to 5 A, 250 V. MTA 156 offers a 3.96 mm centerline in 2-24 positions. Rated up to 7 A, 600 V.

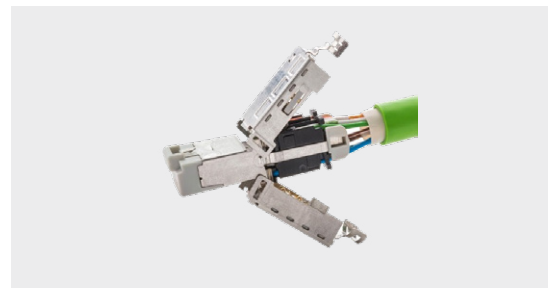
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Industrial RJ45 Connectors

Industrial RJ45 connectors provide flexible solutions for most customer connection requirements. The common core design is part of the IP20 and can also be used in IP65/67 variants.

[Click here](#) to learn more about products



Circular Plastic Connectors (CPC)

TE's circular plastic connectors offer a wide array of product solutions to exceed application and output requirements while meeting needs for miniaturization and cost savings.

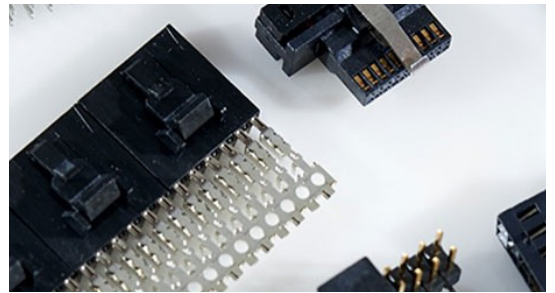
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AMPMODU Interconnect System

AMPMODU interconnect system is a comprehensive family of modular signal interconnects for board-to-board, wire-to-board, and wire-to-wire applications from 1.00 mm (0.039") to 3.96 mm (0.156") centerlines that are widely used across nearly all industrial applications requiring printed circuit boards.

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Economy Power 2.5 Connectors

Achieve easy mating and unmating with positive audible latch and reduce post misalignment with polarization tabs.

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AMPLIMITE D-Subminiature Connectors

Our reliable AMPLIMITE D-Sub .050 series connector portfolio offers a high-density D type interface and includes right angle and vertical D-Subs. Both versions have three mating faces available, flat face, latch block, and latch block with rails.

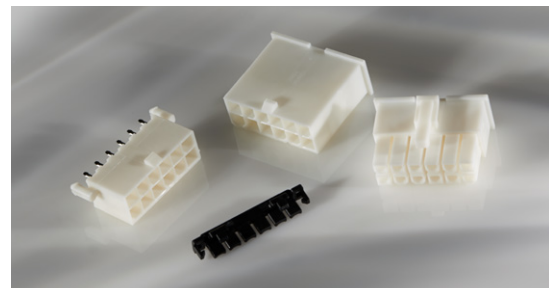
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VAL-U-LOK Connectors

VAL-U-LOK connectors offer 2-24 positions and a discrete wire interconnect system. They are rated up to 13 A, 600 V in a 4.2 mm centerline. They are available in WTW or WTB options.

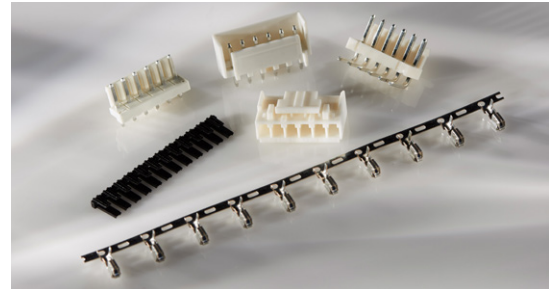
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Economy Power Connectors

Offers up to 11 A, 600 V for high power needs in a 3.96 mm centerline. Provides reliability with a locking latch that helps prevent the plug housing and post header from vibrating apart. Optional terminal position assurance (TPA) accessories.

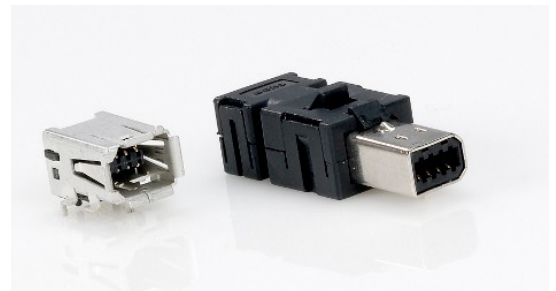
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Mini I/O Connectors

Industrial Mini I/O connector system is a compact wire-to-wire and wire-to-board solution for reliably serial, bus, and Ethernet connections in industrial applications.

[Click here](#) to learn more about products
[Industrial Mini I/O Connector flyer](#)



AMP CT Connector Series

TE's AMP CT connector system consists of an extensive product offering and broad industry usage. The automatic harness-making system provides a range of harness styles using three types of 2 mm centerline connectors featuring round pins. These types are MT connectors, MT AMP-IN vertical connectors, and MT AMP-IN horizontal connectors. Harnesses can be assembled in any of the six configurations. A variety of harness-making machines are available, ranging from hand tools for low volume production to high-speed automatic crimping machines for medium to high volume productions. AMP high-speed automatic crimping machines are easy to operate, significantly reducing the need for the tedious work of changing parts inside the equipment to adapt to changes in harness styles.

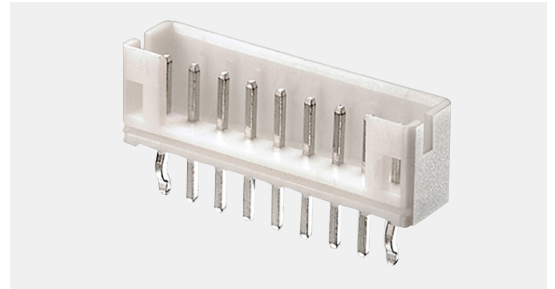
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[Quick Reference Guide](#)



High Performance Interconnects (HPI) Connectors

HPI offer vertical and horizontal (right angle) connector mounting for versatility, and the square-peg technology enables this product to mate with many other like products in the industry. The single-row and dual-row post headers are available in various colors to allow the customer to color code their systems. The single-row connectors range from 2-16 positions, while the dual-row connectors are available in 10, 20, 30, and 40 positions. The wire-to-board HPI connector system is available in 1.0 mm, 1.5 mm, 2.0 mm, 2.5 mm, and 3.96 mm centerline pitch.

[Click here](#) to learn more about products



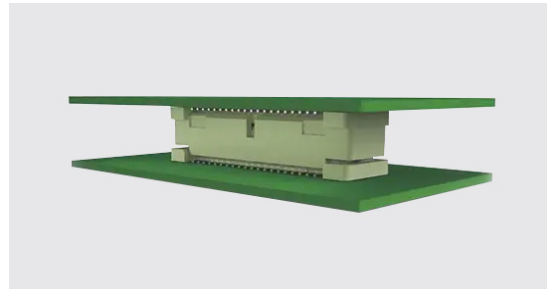
Stacking Connectors

TE's stacking connector portfolio includes free height, fine stack and fine mate connectors. These products provide various flexible stacking solutions for mezzanine (vertical, parallel stacking board-to-board) connections. This portfolio includes many centerline, stack height and application options.

[Click here](#) to learn more about products

[Stacking connectors Quick Reference Guide](#)

[0.8 mm Free Height Connectors Quick Reference Guide](#)



Modular Jacks & Plugs

Modular connectors are engineered to make secure and reliable input/output connections. Many of our modular jacks and modular plugs offer a outstanding locking system that helps prevent both mis-mating and accidental unplugging resulting from shock and vibration. Our shielded and unshielded RJ connectors are manufactured in a compact, one-piece construction, with preloaded contacts, providing a space-saving, quick-to-install solution offering increased design flexibility. These modular connectors are used in many different applications, including data communications, consumer devices and industrial.

TE's comprehensive single port modular jack product portfolio has been designed to meet the diverse design requirements of the data communications market. The product portfolio, which includes right angle jacks, 45 degree angle jacks and vertical jacks, specifically suits applications that require performance in voice, data, and high-speed networking.

[Click here](#) to learn more about products

[Modular Jacks. Single Port PCB Mount – Quick Reference Guide](#)

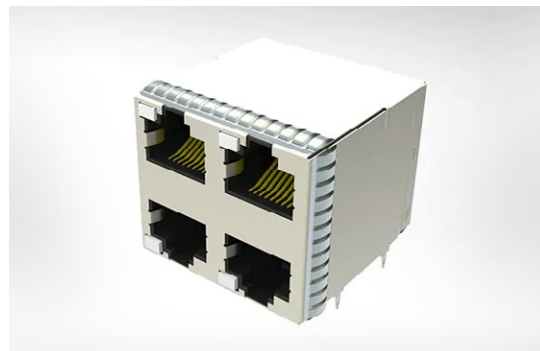
[Industrial RJ45 Jacks with Integrated Magnetics flyer](#)



Cat5e 2x2 Stacked RJ45 Connector

A new high performance Cat5e 2x2 stacked RJ45 connector offers better EMI performance than previous TE products as well as other products on the market. This new connector broadens system bandwidth capabilities with 1 Gbps data rates per port in dual rows. A press fit design makes PCB assembly easier and helps lower operation costs. With a standard, platform profile, this connector can fit into any general 1 Gbps application and we have the flexibility to quickly create other 2xN configurations.

[Click here](#) to learn more about products



Angled RJ45 Connectors

This new connector exceeds data rates of 1 Gb/s, expanding design possibilities into broader bandwidth Ethernet applications. Its enhanced design reduces signal interference, lowers operating costs and features a 45 degree angle that makes assembly easy in hard-to-reach spaces.

Features and benefits:

- Increase ease of assembly – a 45 degree angle entry jack design allows easy, efficient cable connections by providing a connector surface that is more visible and accessible than right angle or vertical jacks in small or hard-to-reach spaces
- Reduce signal interference – the angled RJ45 connector features higher number of EMI springs in the shield design
- Decrease PCB assembly costs – supports cost-effective IR reflow soldering processes with high-temperature, liquid crystal polymer (LCP) material

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MULTI-BEAM Connectors

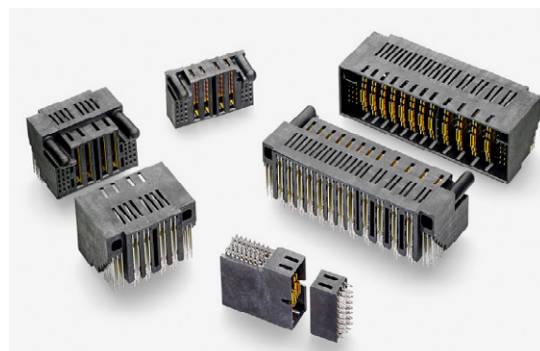
With a variety of available power and signal contacts, mating sequences, and a modular design, you can design in the MULTI-BEAM XLE, MULTI-BEAM XL, MULTI-BEAM High Density (HD) or MULTI-BEAM Plus power connectors that best fit your application needs. These connectors are excellent for blind-mating in modular and rack mounted systems.

[Click here](#) to learn more about products

[MULTI-BEAM Plus Power Connectors – flyer](#)

[MULTI-BEAM HD Connectors – flyer](#)

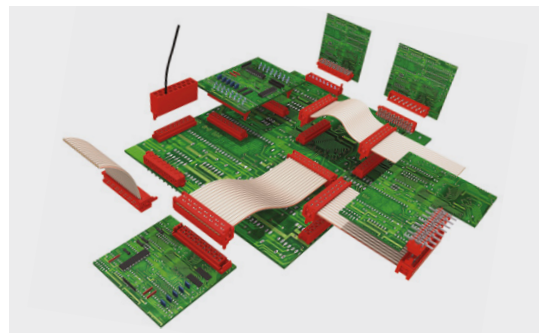
[MULTI-BEAM XLE Power Connectors – flyer](#)



Micro-MaTch Connectors

The TE Micro-MaTch connector family, with its contact spacing of 1.27 mm, offers a variety of wire-to-board and board-to-board interconnections. The Micro-MaTch contact helps prevent fretting corrosion, the traditional failure mode in tin-plated connections. Relative movements caused by vibrations/thermal expansion between male and female contacts are absorbed by an additional positioning spring in the female part. By helping prevent movements on the contact spot, a gas tight connection can make the Micro-MaTch contact spring system fretting corrosion resistant.

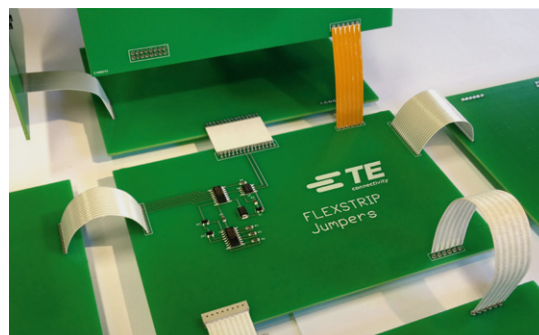
[Click here](#) to learn more about products
[Micro-MaTch Quick Reference Guide](#)



Flexstrip Jumpers

As an alternative to conventional point-to-point wiring, TE's Flexstrip jumpers offer a flat conductor construction that provides extraordinary flexibility and resistance against vibration and high flexing cycles. Especially, in applications that require a reliable high performance interconnect, the Flexstrip jumpers can be repeatedly flexed with virtually no failure. Versatile in multiple applications and due to his design, multiple customization is possible.

[Click here](#) to learn more about products
[Flexstrip Jumpers Quick Reference Guide](#)



Remote I/O Termination System (RITS)

The contact design based on insulation displacement of TE's RITS connectors does not require any wire preparation, such as stripping. This provides significant time savings of up to 80%, compared to traditional connection technologies via crimp or screw clamp. Features as color-coded covers for indicating the applicable wire range, semi-transparent housings for proper wire positioning prior to the wire termination and simple quality inspection, integrated locking lever with audible click sound improve the installation and mating process and reflect our strong focus on our customer's success. Our RITS connectors are available in a high density 2.0 mm configuration and various housings options such as plug, SMT-PCB mountable, panel mount, junction box and socket connectors.

[Click here](#) to learn more about products
[RITS Quick Reference Guide](#)



Latching USB Connectors

TE offers a broad range of industrial USB connectors. The IP20 series features an integrated locking mechanism with audible and tactile feedback, creating an excellent interconnect solution for internal USB cable routing basically without having to worry about the plug coming loose during transit and use. A sealed and highly reliable version (IP65/IP67) for rugged and harsh environments is also available.

[Click here](#) to learn more about products
[Latching USB Connector flyer](#)



Industrial Small Computer Systems Interface (SCSI) Connectors

The TE industrial SCSI connector is the high density connector solution for industrial I/O application. The soldering version and the screw-locking version allow for more flexible product installation.

Key features:

- High density, 1.27 mm pitch
- 14/20/26/36/50 pin available
- Right angle and vertical version available
- Soldering version available
- Screw-locking
- Metal/plastic version available

[Click here](#) to learn more about products



ERNI MicroCon Connectors 0.8 mm

As innovation leaders, TE and ERNI continue the success story of compact and robust SMD connectors with the MicroCon connector series. These are miniaturized double-row finpitch connectors with a grid dimension of 0.8 mm and available with different numbers of poles from 12 to 100. Design freedom cannot only be given by different pin-counts but also by various available heights and configurations. They are excellent for the demanding markets because they are robust and reliable. More secure mating is supported by coding and blind-mate guide alignments.

[Click here](#) to learn more about products
[ERNI MicroCon connectors flyer](#)

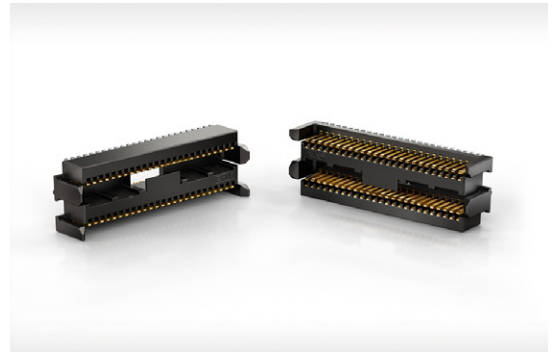


ERNI MicroStac Connectors

The ERNI MicroStac connector series features hermaphroditic mating design within a pitch of 0.8 mm. Connectors and their mating connectors are identical. This reduces the bill of material and also storage and handling costs. Two contact points between mated contacts and the wipe length of up to 1.5 mm provide a high reliability.

MicroStac connectors are available for board-to-board heights of 3 mm and 5 mm. Despite their small size, MicroStac connector contacts offer large radiating surfaces to provide a high current rating.

[Click here](#) to learn more about products
[ERNI MicroStac connectors flyer](#)

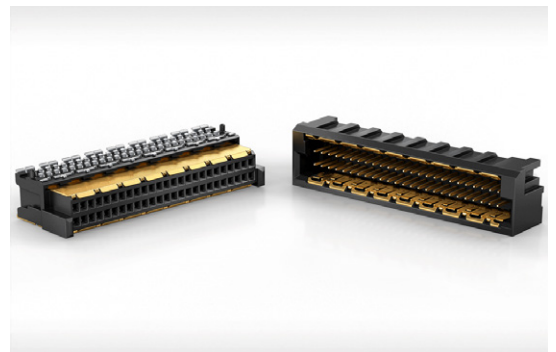


ERNI MicroSpeed Connectors

ERNI MicroSpeed connector family is synonymous with fast data transmission, for high signal quality and for time-tested reliability in permanent application. The shielded connector family with 1 mm pitch enables high-speed data applications with up to 25 Gbit/s. The connectors are excellent for next generation communication standards like 100 Gbps Ethernet gen 2, Common Electrical I/O (CEI) 25 G, USB 3.1, etc. Electromagnetic compatibility can be significantly improved thanks to the enhanced shield concept. The connectors have minimized electromagnetic radiation and very good resistance to interference.

The robust frame design with polarized mating face and the blind-mate features are decisive aspects for use in industrial environments. The dual-beam female contact provides safer and reliable connection in rough environments and provides a wipe length of 1.5 mm.

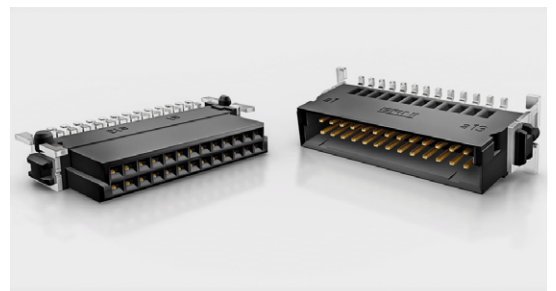
[Click here](#) to learn more about products
[ERNI MicroSpeed connectors flyer](#)



ERNI SMC

ERNI SMC is a miniaturized connector (1.27 mm) and gives a high design freedom – various shapes enable different mating configurations. The SMC connector supports the board-to-board, board-to-wire and board-on IDC solutions. Pin counts can be chosen from 12-80, and different orientations (angled, vertical) are available. This design freedom is further supported by different stacking heights. The SMC connector combines a short length with a large number of pins. Please check [Cable Assemblies section](#) if you are interested in cable assemblies for SMC.

[Click here](#) to learn more about products
[ERNI SMC flyer](#)



ERNI MicroSpeed Power Modules

ERNI MicroSpeed power modules are reliable connectors for power supply systems. Its outstanding property is its high current carrying capacity of up to 18 A/pin in comparison to its small dimensions. MicroSpeed power module is a 5-pin connector system with a contact pitch of 2.0 mm. The connector system is the complementary power component to the signal connectors of the MicroSpeed series. Thanks to a broad range of different types (orientation, blind mate option, SMT and THR options) and many different heights (5 to 20 mm) of male and female connectors, developers have excellent flexibility when arranging circuit boards.

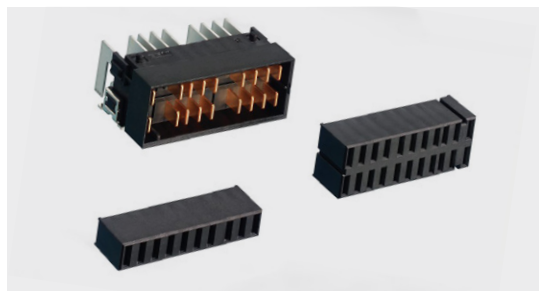


MicroSpeed power connectors can be finished fully automatically. They are excellent for providing the power supply to high-performing, compact elements such as controllers or drives, like those used in automation, measurement technology, medical technology, or information technology.

[Click here](#) to learn more about products
[ERNI MicroSpeed power modules flyer](#)

ERNI Power Connectors

The power connector and MicroSpeed power module, both have a common feature – high current-carrying capacity compared to their small size. The power connector and MicroSpeed power modules differ on the basis of pins. This unshielded connector can provide up to 44 pins and is available in 1- or 2-row versions. Higher operating voltages are possible due to a variable distance between the contacts, providing great flexibility in the applications. The layout is designed with an enhanced solder pad size to support high retention forces. The integrated 3-point double beam female contact helps ensure durable low-contact resistance over the whole lifecycle.



The connectors have a pre-assembled pick&place pad and can be processed fully automatically.

[Click here](#) to learn more about products

ERNI MiniBridge Connectors

The ERNI MiniBridge connectors have a miniaturized shape in 1.27-mm grid and can be used everywhere that space-saving connections between PCBs and decentralized functional units must be implemented. The single row cable mating system is available with straight and angled male terminal strips. All mating variants can be used in combination with female terminal strips having 90° and 180° cable outlet. The Koshiri variants of the connectors offer especially high mating reliability.

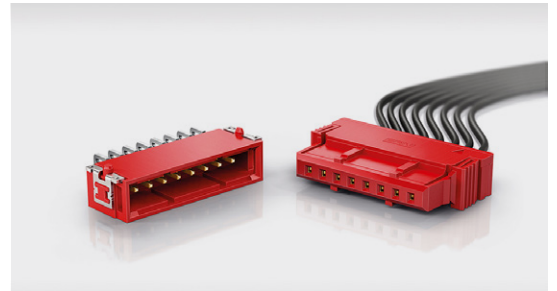


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[ERNI MiniBridge Connectors flyer](#)

ERNI MaxiBridge Connectors

The MaxiBridge connector system is a single- and double-row cable connector system with a pitch of 2.54 mm. It has a high current rating of up to 12 A per contact and is excellent for space-saving, highly stressed connections. TE offers MaxiBridge connectors with two to twenty contacts for numerous applications. MaxiBridge connectors allow reliable connections between printed circuit boards and decentralized functional units.

[Click here](#) to learn more about products
[ERNI MaxiBridge Connectors flyer](#)



TERMINALS AND SPLICES

Terminals and Splices

TE offers one of the broadest portfolios of terminals and splices for industrial applications, including UL and MIL specifications. We will work with you to find an engineered solution that consists of terminal and tooling customized for your requirements. To take advantage of the broad range of terminals and splices from TE, we also offer the tooling solution that goes along with it. The quality of the termination is critical and depends on several factors: trained personnel, wire, documentation, inspection, and, of course, the terminal and tooling.

With TE's matching terminal and tooling solutions, we enable the complete crimp, avoiding scrap, product recalls or even possible litigation.

[Click here](#) to learn more about products



FASTON Terminals

Designed for speed and reliability. Receptacles available insulated and uninsulated and in straight and flag configurations. Options for low insertion force and high temperature requirements available.

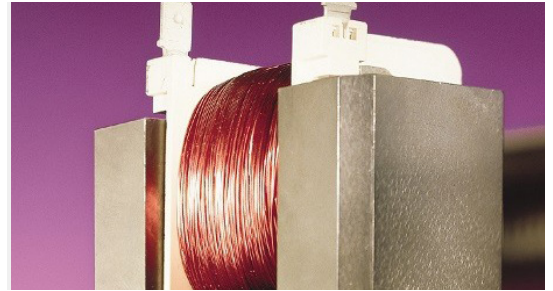
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Magnet Wire Termination

We offer a broad range of terminals specifically designed to terminate magnet wire, whether copper, aluminum, or a combination of both.

[Click here](#) to learn more about products



Ultra-Fast Terminals

Fully insulated FASTON receptacles offer the advantage of a completely protected terminal and a closed barrel wire crimp. Terminates 26–10 AWG solid, fused, and stranded wire. Each assembly's translucent nylon housing is color-coded to identify wire size.

[Click here](#) to learn more about products



Pre-insulated Diamond Grip (PIDG) Terminals and Splices

PIDG terminals and splices are designed for uniform reliability in the most difficult circuit environments. PIDG terminals and splices consist of a nylon or PVC insulated copper body, plus a copper sleeve that crimps to the wire insulation for added support. This outstanding design is vibration resistant and allows the wire to bend in virtually any direction without damaging the wire insulation or conductor.

[Click here](#) to learn more about products



PLASTI-GRIP Terminals

PLASTI-GRIP terminals are preinsulated RBY terminals and splices specifically designed to answer the need for inexpensive insulated electrical terminations. TE PLASTI-GRIP terminals and splices consist of a high conductivity copper body and color-coded PVC insulation that can be used in almost all commercial applications.

[Click here](#) to learn more about products



SOLISTRAND Terminals

Our SOLISTRAND products are designed for reliable performance in harsh environments. SOLISTRAND terminals and splices are specifically engineered to provide for reliable and long-lasting performance in harsh environments. SOLISTRAND terminals are corrosion resistant and, vibration resistant, and features a tensile strength well within the limits of commercial and military specifications.

[Click here](#) to learn more about products



ERNI Power Taps

ERNI power taps in grids of 2.54 millimeters are developed especially for the power supply on the PCB. Depending on the cable connection and PCB, operating currents up to 40A can be realized. Power taps are available in various designs with six or ten connection pins and as dip solder or pressfit variants. The cable connection is possible with commercially available cable lugs. These available configurations provide high flexibility for the connections.

[Click here](#) to learn more about products

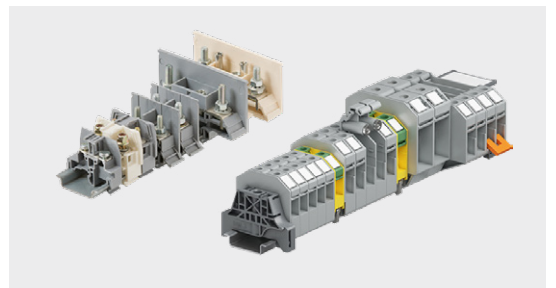


TERMINAL BLOCKS

ENTRELEC

TE's ENTRELEC terminal blocks offer one of the largest portfolios of terminal blocks with technologies such as screw, Push-In and Spring, spring, insulation displacement crimp (IDC), pluggable, stud, etc., which are found in over 8,000 products and solutions.

[Click here](#) to learn more about products



RELAYS

TE has extensive capabilities in the design and manufacture of relays and a broad portfolio of switching solutions for demanding high-performance applications. These relay products are remotely actuated to control electrical power flow by either interrupting or completing an electrical circuit. Complying with standardized PCB footprints, TE offers a wide range of inrush current capabilities and addresses the extensive spectrum of requirements for production lines, robotics, control panels, CNC machines, motion control systems, and an array of safety-critical applications. Through agency-approved test labs, we help to ensure that our relays are tested to meet the expectations of the industry.

[Industrial Relays Quick Reference Guide](#)
[Relay Selector Tool](#)

Relays characteristic comparison

Product Series	Contact Type	Electric Data	Core Power	Temperature	Size [mm]
RT Relay	1FormC/1FormA	250 VAC 16 A	400 mW	85	29x12.7x15.7
RZ Relay	1FormC/1FormA	250 VAC 16 A	400 mW	85	29x12.7x15.7
RE Relay	1FormC	250 VAC 5 A	200 mW	85	20x10x10
PE Relay	1FormA	250 VAC 6 A	200 mW	85	20x10x10.6
T9A/T9G Relay	1FormC/1FormA	250 VAC 30 A	1 W	85	32.3x27.4x20.4
Force Guided Relay	Depends on detail	250 VAC 6 A/8 A	700 mW-1200 mW	70	Depends on detail
SNR Relay	1FormC/1FormA	250 VAC 6 A	170 mW	85	28x5x15
PCN Relay	1FormA	250 VAC 5 A	120 mW	70	20x5x12.5
MSR/Ryii Relay	1FormC/1FormA	250 VAC 10 A	220 mW	85	28.6x10x15

SCHRACK Force Guided Relays

Force guided relays are used in safety circuits in combination with light curtains, interlock switches, and emergency stop switches to control outputs. These are used to expand outputs for safety relay modules and safety controllers. Our force guided relays are highly engineered for reliably switching low loads by the monitoring circuit.

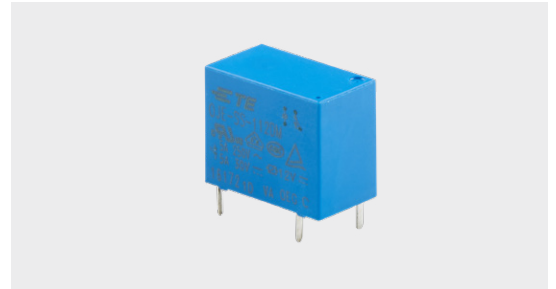
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OJ/OJE Miniature PCB Relays

Miniature size in a 1 Form A (NO) contact arrangement. Various models support a range of loads with contact ratings from 3–10 A. Both sensitive (200 mW) and standard (450 mW) coil options accommodate various drive circuits.

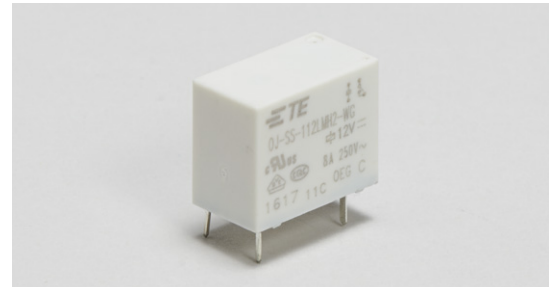
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T77 Miniature PCB Relays

These miniature PCB relays offer compact size and 3–10 A rating. They have creepage spacing of 6.5 mm between the coil and contacts, and a UL class F approved insulation system.

[Click here](#) to learn more about products



PCH Relays

PCH relays provide compact size in a 1 form A (NO) and 1 Form C (CO) contact arrangement with ratings from 3–10 A. Sensitive coil available for 1 Form A-type.

[Click here](#) to learn more about products



Potter & Brumfield Solid State Relays

TE's Potter & Brumfield solid state relays are featured in industrial applications, where silent, fast, and long electrical life in switching is required. They are used in heating, power, lighting, and motion applications. Solid state relays can operate with very low operating times (make/bounce) with practically no limit on number of switching cycles. These are best suited for fast and high switching cycle requirements. Solid state relays offer a longer electrical life since they do not contain moving parts.

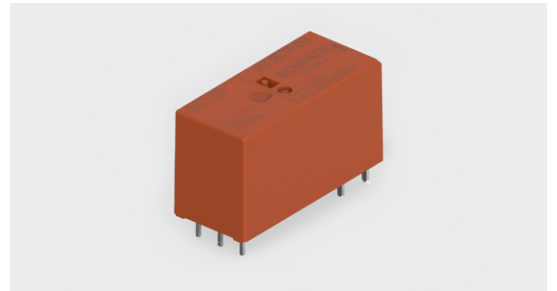
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RT Industrial Power Relays

SCHRACK power PCB relays are offered in DC or AC coils with reinforced insulation and reflow versions for through-hole reflow soldering processes. RT relays are typically seen in interface modules and applications.

[Click here](#) to learn more about products



Potter & Brumfield T9G Power Relays

The T9G relay series is a 30 A power PCB relay engineered for HVAC, appliances, and industrial control applications. The T9G relay is the smallest relay in its class while keeping the standard footprint, allowing manufacturers to add more components on PCBs without having to compromise on relay performance. By having both UL and VDE certifications, our Potter & Brumfield relay T9G series relays are versatile relays that can be used globally and through its PCB and quick connect terminations, they are user-friendly and easy to install.

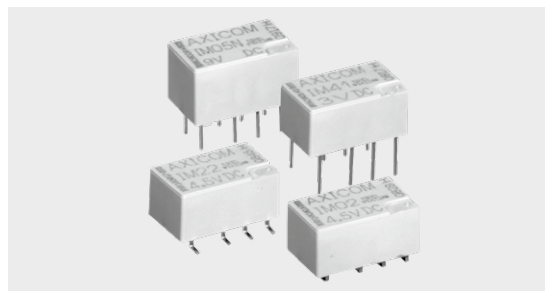
[Click here](#) to learn more about products
[Potter & Brumfield 30 A PCB Relay T9G Series flyer](#)



IM Relays

An IM (integrated manufacturing) relay is a very small and highly versatile relay. It is made by stacking several loose components or building blocks together into a relay form, which is then overmoulded. Overmoulding the components enables the manufacturer to shape parts into a specific form and bind them strongly together into an insulated package, thereby creating the IM relay. Using the overmoulding technique allows the relay to shrink to its most minimal size while producing maximum performance levels. IM relays are engineered for high shock resistance, which is the result of how the relay is molded, mounted, and fixed together during the assembly process.

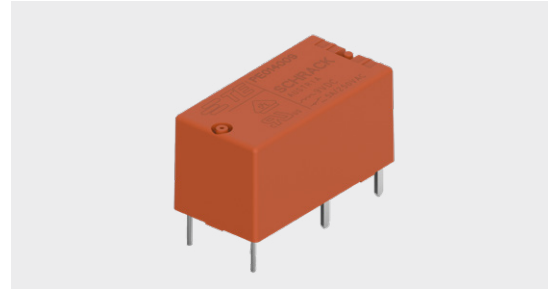
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SCHRACK Miniature PCB Relay PE

TE's PE series relay is a small relay offering 1 form C (CO) or 1 form A (NO) contacts rated 5 amps. It achieves its compact size and relatively high switching capacity with a sensitive coil requiring only 200 mW. Applications include industrial equipment, HVAC thermostats, electricity meters, timer relays, white goods, interface modules, home automation, and battery powered controls.

[Click here](#) to learn more about products



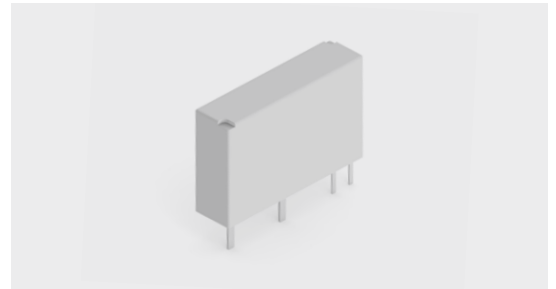
Slimline PCB Relay PCN

OEG PCN 23 VDC slim relay is a 3A Power PCB relay with 1 pole, 1 form A (NO contact). Smart design, structure and spot automated manufacturing process allows for cost and space-savings, lower power consumption and reliability.

Benefits:

- 1 form A (NO), 3A
- Only 5 mm wide
- 3 kV contact-to-coil isolation
- 120 mW coil power rating DC

[Click here](#) to learn more about products



IHV Contactors

IHV series, with a wide current range of 50–350 A and switching voltage up to 1800 VDC, is widely used in high-voltage control and protection systems, charging stations, large-scale photovoltaic/energy-storage inverters, and energy storage systems.

- Hermetically sealed, intrinsically safe
- Designed in accordance with AIAG QS9000
- No position-sensitive RoHS compliance

[Click here](#) to learn more about products



HEAT SHRINK TUBING

RNF-100 and RNF-3000 Heat Shrink Tubing

These heat shrink tubing products offer excellent physical, chemical, and electrical properties. Their abrasion- and solvent-resistance is superior to that of many polyolefin tubings. A wide range of sizes and colors are available.

[Click here](#) to learn more about products



Dual Wall Flame Retardant (DWFR) Heat Shrink Tubing

DWFR heat shrink tubing has a UL 224 VW-1 flame rating. Its 3:1 and 4:1 shrink ratios allow for connector-to-cable sealing and its medium wall provides increased mechanical protection. The DWFR adhesive bonds to a wide variety of materials.

[Click here](#) to learn more about products



Single Wall Heat Shrink (SWFR) Heat Shrink Tubing

Low shrink temperature for fast installation. Environmentally friendly tubing with no added halogens emits minimal amounts of toxic or acid gasses during combustion. 600 V rating. UL 224/CSA VW-1 flame rating.

[Click here](#) to learn more about products



VERSAFIT Heat Shrink Tubing

VERSAFIT heat shrink tubing meets AS23053/5, Cl. 3 as well as UL 224 and CSA C22.2 No. 198.1 standards. It has a UL 224/CSA VW-1 flame rating and offers low shrink temperature for fast installation.

[Click here](#) to learn more about products



RW-175 Heat Shrink Tubing

RW-175/RW-175-E tubing is highly resistant to flame, high temperatures, and chemicals. With its 2:1 shrink ratio across a wide range of sizes, it offers excellent insulation, mechanical protection, and strain relief of multi-pin connectors, solder joints, and other delicate connections.

[Click here](#) to learn more about products



RNF-150 Heat Shrink Tubing

Excellent physical and electrical properties after exposure to many chemicals and solvents at 50°C [122°F]. 2:1 shrink ratio. High-performance, flame-resistant, flexible, fluoropolymer tubing.

[Click here](#) to learn more about products



SWITCHES

Switches

TE's switches are cost-effective, reliable, high-performance solutions designed to resist extreme shock, vibration, temperature, and altitude. Our portfolio includes many types of switches and switch accessories, including knobs, caps, boot seals, and hardware.

[Click here](#) to learn more about products

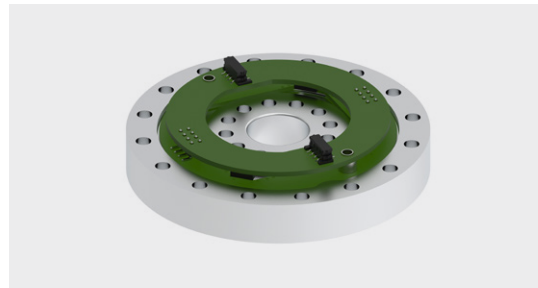


SENSORS

Safety Torque Sensors

TE offers solutions for measuring reaction torque and rotating torque. Our torque meters, complete with integral mechanical stops, increase overload capacity and provide additional protection during mounting and operation. We offer a variety of small-capacity sensors for dynamic and reaction torque measurements.

[Click here](#) to learn more about products



Sensors

With the drive toward Industry 4.0 trends, the use of robotic, automation, and control systems on the factory floor has become commonplace to increase efficiency, productivity, and profitability. As the need for industrial robotic automation advances, sensing technology will continue to be the foundation for data collection that will help transform manufacturing floors into connected, cost-effective, and reliable facilities. TE offers numerous force, temperature, pressure, and position sensors that provide highly accurate measurements for precise movement control and accurate monitoring of system components for preventative maintenance.

[Click here](#) to learn more about products



FILTERS

Corcom filters

TE offers a catalog of over 70 Corcom filter series that provide solutions to your electromagnetic interference (EMI) or radio frequency interference (RFI) signal issues. Our EMI/RFI testing facilities can provide complimentary testing services to help you select or custom design a filter.

[Click here](#) to learn more about products



LABELS

Identification & Labeling – Panel Labels

A cost-effective, commercially attractive replacement for engraved labels using a high-performance, thermal transfer label with a foam-backed adhesive. Suitable for on-demand printing, and excellent for use with high-definition graphics and barcodes in indoor and outdoor use. The foam-backed adhesive allows for the label to be adhered to curved surfaces as well as textured surfaces.

[Click here](#) to learn more about products



PASSIVES

Power Resistors

Our wire-wound power resistors are designed for reliable control of current and voltage. We manufacture three types of wire wound resistors: chassis mount, surface mount, and through-hole resistors. We also make cement-encased wire wound power resistors.

[Click here](#) to learn more about products



CABLE ASSEMBLIES

Cable Assemblies

With decades of experience, global expertise in development and manufacturing, and a worldwide network of competence centers, TE creates customized cable assemblies solutions and standardized products that provide an excellent fit for your motor. When it comes to creating the assemblies, numerous automatic and semi-automatic manufacturing technologies are at our disposal — cutting and stripping, soldering, IDC insulation displacement, over-molding, and more.

[Click here](#) to learn more about products



Rugged Connector Sealing and Cable Assembly Systems

Our rugged connector sealing systems are designed to provide high signal data connectivity. These products are built to industry standards, incorporating fiber optic and copper interconnects for both factory-made and field-installable cable assemblies. FullAXS, Full AXS Mini and Multi-Fiber cable assembly enclosures are scalable and easy to install, making them an excellent solution for wireless outdoor applications, in some of the toughest environments.

Designed for a broad range of transceivers, and with a connector shell that allows for easy one-handed mating, the product offers a bulkhead construction to plug these cable assemblies directly into optical transceivers or other connector types.

[Click here](#) to learn more about products



Multi-Fiber Cable Assemblies

TE's multi-fiber cable assemblies can provide high signal data connectivity routing commonly through only one cable connecting multiple units in the field instead of one assembly for each. This can allow for space savings within densely populated applications. This product is UL and CPR compliant, which can allow for a cost effective upgrade to customer applications and can also provide flexible configurations to address customer's needs.

The new multi-fiber cable assemblies use bend-insensitive fiber G.657.A2 while the bayonet style of locking feature can provide positive feedback to the operator when fully mated. This can allow for easy, fool-proof installation and reliable performance. These reliable, high quality, rugged cable assemblies can be used in harsh environments.

[Click here](#) to learn more about products
[Multi-fiber cable assemblies flyer](#)



FullAXS Cable Assemblies

The FullAXS platform represents a rugged x-TTA solution, built to industry standards, incorporating fiber optic and copper interconnects for both factory-made and field-installable cable assemblies. FullAXS enclosures are scalable and easy to install, making them an excellent solution for wireless outdoor applications, in some of the toughest environments. The FullAXS connector sealing system and cable assembly includes FullAXS Mini and standard FullAXS connector sealing products.

[FullAXS and FullAXS Mini Connector Sealing and Cable Assembly flyer](#)



FullAXS Mini Cable Assemblies

FullAXS Mini connector sealing system is about 20% smaller than FullAXS products and can be placed almost anywhere on the box thanks to their flexible design. As space in the bottom of the box gets smaller and smaller, FullAXS Mini connector sealing products make it easy to transmit power or signal using connections virtually anywhere. Their modular design make them scalable in form, fit and function.

[FullAXS and FullAXS Mini Connector Sealing and Cable Assembly - flyer](#)



ERNI SMC Cable Assemblies

ERNI SMC cable connectors:

- Possible to unmate again
- Cable assemblies with IDC female connectors
- Flat ribbon cables AWG 30/7
- Three different cable types: standard, high temperature, halogen free

ERNI SMC board-on IDC:

- Permanent wire-to-board connection (all in one: SMT and IDC termination)
- Flat ribbon cables AWG 30/7
- Easy assembly with standard toggle press

[Click here](#) to learn more about products
[ERNI SMC flyer \(pages 24-27\)](#)



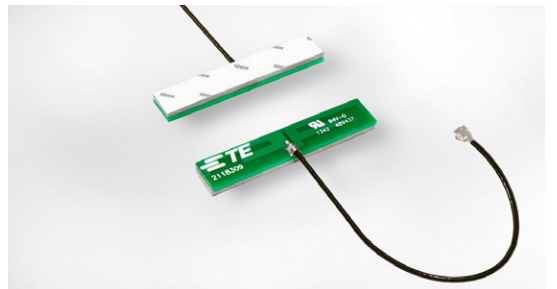
ANTENNAS

Standard Antennas

TE is a leading provider of standard embedded and external antenna solutions that can connect your product in this increasing wireless world. Numerous industries have integrated wireless functionality into their everyday products and services. TE provides advanced antenna solutions for most wireless devices, with many combinations of features that are required. Our antenna designs accommodate many sets of frequency bands for operation on any network – in both regional and global markets – at a competitive price point.

TE's antenna portfolio includes standard and custom solutions in the following categories: Cellular, GNSS, Wi-Fi, Bluetooth, ZigBee, ISM, LPWAN and RF accessories. With our rich antenna portfolio, we thrive on opportunities to solve problems together with our customers.

[Click here](#) to learn more about products



APPLICATION GUIDE

Printed Circuit Board (PCB) Connectivity

Product Series	Wire-to-Board			Board-to-Board		
	Discrete Wire	Ribbon Cable	FFC	Parallel	Right Angle	Co-Planar
AMPMODU 50/50 Grid Connector System	-	●	-	●	●	-
AMPMODU System 50 Connector	-	●	●	●	●	●
AMPMODU 2 mm Connector	-	-	-	●	●	●
AMPMODU 2.54 mm Connector	-	-	-	●	●	-
AMPMODU MTE Connector	●	-	-	-	-	-
Micro-MaTch Connector	●	●	-	●	●	-
0.8 mm Free Height (FH) Connectors	-	-	-	●	●	-
Micro Stack Connectors	-	-	-	●	-	-
Flexstrip Jumpers	-	-	-	●	●	●
RITS Connector	●	-	-	-	-	-
Dynamic Connector D1000 Series	●	-	-	-	-	-
Dynamic x900 Spring Clamp Series	●	-	-	-	-	-
Dynamic Connector D2000 Series	●	-	-	-	-	-
Dynamic Connector D3000 Series	●	-	-	-	-	-
Dynamic Connector D4000 Series	●	-	-	-	-	-
Dynamic Connector D5000 Series	●	-	-	-	●	-

Industrial Communication Connectivity

Product Series	Ethernet	Encoder	Normal Data
Industrial Mini I/O Connector	●	●	●
RJ45 Modular Jack	●	-	-
Industrial RJ45 Jacks with Integrated Magnetics	●	-	-
Latching USB Connector	-	-	●
Industrial SCSI Connector	-	●	●
Interconnects for the IEEE 1394 Standard	-	●	●

Connect With Us

We make it easy to connect with our experts and are ready to provide all the support you need, including:

- Help finding product information
- Assistance with sample orders
- Direct access to TE engineers and product experts
- Consulting on a project
- Help using TE design resources

Visit te.com/robotics-contact to chat with a Product Information Specialist.

te.com/robotics

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JS 05/23