

Innovative Solutions for Motion & Drives

TE Connectivity (TE) is your motion & drives solution provider for electromechanical and electronic components. Whether you are designing a new system or retrofitting an existing system, this solutions guide will help you select the required components with easy access to additional online information through te.com. TE's product solutions support professional decentralization within your production facility making it easier to simplify or retrofit your machine architecture, save power and reduce applied cost while increasing system reliability and productivity.



The Specialist in Electronic
Component Distribution



Authorized Distributor

TE offers solutions for all of your motion and drives needs.



Design Navigator

Get more information on te.com by clicking on the product names below.


			Max Current Rating per Contact(A) ¹	Power & Signal Combined	Protection from EMI/RFI Noise	Speed & Determinism	High Vibration Performance	Thermal Performance	Quick Connect/ Disconnect	Miniaturization & Space Savings	Wire-to-Wire	Wire-to-Board	Board-to-Board	Standards
1	CONTROLLER / PLC SYSTEM													
	AMPLIMITE D-Subminiature Connectors	7.5	●	●	●	●		●			●	●		UL, CSA
	AMPMODU Board-to-Board & Wire-to-Board Connectors	1-3						●		●	●	●		UL, CSA
	CHAMP Board-to-Board & Wire-to-Board Connectors	1.0		●	●	●		●			●	●		UL, CSA, SCSI
	DIMM Sockets	N/A	●	●	●	●								JEDEC, Industry*
	DIP Switches	0.1												N/A
	Dynamic Series Wire-Applied Connectors	45						●			●	●		UL, CSA, TUV
	Eurocard Board-to-Board & Wire-to-Board Connectors	1.5	●	●	●	●					●	●		DIN 41612 & EIC 60603-2
	Free Height (FH) Board-to-Board Connectors	1.0		●	●	●								UL
	Force Guided Relays	8.0	●		●	●			●					UL, VDE, TUV, CQC, Industry*
	Industrial USB Connectors	1.5			●	●		●			●			UL, CSA, Industry*
	Micro-MaTch Board-to-Board & Wire-to-Board Conn.	1.5				●		●			●	●		UL
	Overvoltage Circuit Protection Devices	N/A			●	●	●		●					UL, CSA, TUV
	Precision Resistors	N/A				●			●					N/A
	Signal PCB Relays	2.0							●					UL, VDE, TUV, CQC, Industry*
	Tactile Switches	0.05							●					N/A
	Terminal Blocks & Strips	30				●		●			●			RU, CSA
	Z-STACK Board-to-Board Connectors	0.3		●	●	●			●			●		UL
2	DRIVE UNIT													
	AMPLIMITE D-Subminiature Connectors	7.5	●	●	●	●		●			●	●		UL, CSA
	AMPMODU Board-to-Board & Wire-to-Board Connectors	1-3						●		●	●	●		UL, CSA
	CHAMP Board-to-Board & Wire-to-Board Connectors	1.0		●	●	●		●			●	●		UL, CSA, SCSI
	Dynamic Series Wire-Applied Connectors	45						●			●	●		UL, CSA, TUV
	Industrial Mini I/O Connector System	0.5		●	●	●		●	●		●	●		Cat5e
	Industrial RJ45 Connectors	0.5		●	●	●		●		●	●			UL, CSA, Cat5E, Cat6
	Industrial USB Connectors	1.5			●	●		●			●	●		UL, CSA, Industry*
	Micro-MaTch Board-to-Board & Wire-to-Board Connect.	1.5				●		●			●	●		UL
	Overvoltage Circuit Protection Devices	N/A			●	●	●		●					UL, CSA, TUV
	Precision Resistors	N/A				●			●					N/A
	Remote I/O Terminal System (RITS) Connectors	3.0			●	●		●			●			UL
	Signal PCB Relays	2.0							●					UL, VDE, TUV, CQC, Industry*
3	SYSTEM INTERFACE													
	AMP Power Series Wire-Applied Connectors	275				●		●		●				UL, CSA
	Circuit Breakers	0.2-50			●			●						UL, CSA, VDE
	Corcom Power Line Filters		Refer to the table below for product detail											UL, CSA, VDE
	Customized Cable Assemblies²	N/A	●	●	●	●	●	●		●	●	●		UL, CSA, VDE, Industry*
	Identification & Labeling	N/A					●							UL, CSA, Industry*
	Panel Mount Relays	16				●		●						UL, CSA, VDE
	Power Triple Lock (PTL) Wire-Applied Connectors	20				●		●		●				UL, CSA, GWT
	Switches	20	●			●	●	●						UR, UL, CSA, VDDE
	Terminal Blocks & Strips	30				●		●			●			RU, CSA
	Terminals & Splices	30				●		●			●			UL, CSA, Industry*
	Universal MATE-N-LOK Wire-Applied Connectors	19				●	●	●		●	●	●		RU, CSA, UL, VDE
4	I/O (INPUT / OUTPUT)													
	Circular Plastic Connectors (CPC)	60	●			●		●		●	●	●		UL, CSA, VDE
	Customized Cable Assemblies²	N/A	●	●	●	●	●	●		●	●	●		UL, CSA, VDE, Industry*
	Heavy Duty Connectors (HDC)	300	●	●	●	●		●		●	●			UL, CSA, SEV, VDE, DIN
	Identification & Labeling	N/A					●							UL, CSA, Industry*
	Industrial Ethernet Switches	0.5		●	●	●		●	●					UL, CSA
	Industrial RJ45 Connectors	0.5		●	●	●	●	●		●	●			UL, CSA, Cat5e, Cat6
5	HMI / DISPLAY & CONTROL UNIT													
	Refer to the Innovative Solutions for Industrial Control Guide for information on products included in this subsystem													
6	MOTOR													
	Circular Plastic Connectors (CPC)	60	●			●		●		●	●	●		UL, CSA, VDE
	Customized Cable Assemblies²	N/A	●	●	●	●	●	●		●	●	●		UL, CSA, VDE, Industry*
	Hall Sensors / Resolvers	N/A				●								N/A
	Heavy Duty Connectors (HDC)	300	●	●	●	●		●		●	●			UL, CSA, SEV, VDE, DIN
	Industrial RJ45 Connectors	0.5		●	●	●		●		●	●			UL, CSA, Cat5e, Cat6
	MAG-MATE Terminals	N/A				●				●				UL
	Motorman Hybrid I/O Connectors	20	●	●		●		●		●				UL, CSA, VDE, Cat5e
	Power Resistors	N/A				●		●						N/A
	Universal MATE-N-LOK Wire-Applied Connectors	19				●	●	●		●	●	●		RU, CSA, UL, VDE
7	SENSING DEVICE													
	Circular Plastic Connectors (CPC)	60	●			●		●		●	●	●		UL, CSA, VDE
	Hall Sensors / Resolvers	N/A				●								N/A
	M8/M12 Industrial Cordsets & Connectors	5.0		●	●	●		●	●	●	●			UL, CSA

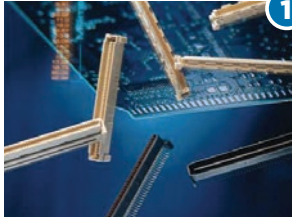
CORCOM EMI/RFI POWER LINE FILTERS				
Series	Type	Rated Current / Voltage (max)	Agency Approvals	
FC Series	Single Phase	RFI Filter for Frequency Converters	6 - 50A / 250 VAC	UL
K Series		General Purpose RFI Filter	1 - 60A / 250 VAC	UL, CSA, VDE
AYC Series	Three Phase	WYE or Delta RFI Power Line Filter	16 - 200A / 480 VAC / 277 VAC	UL
BCF Series		Compact Delta RFI Filter	7 - 180A / 480 VAC / 277 VAC	UL, CSA, VDE

¹ May vary based on application and product selection
² Solves the same problems as the applied interconnect
 UL - UL Listed
 RU - Recognized Under
 CSA - Canadian Standards Association
 * Industry - Meets product specific industry standards (see product page on te.com for more detail)



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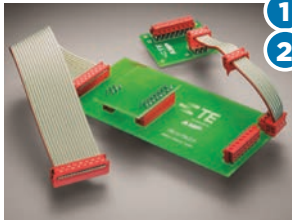


1

Free Height (FH) Board-to-Board Connectors

- Support high reliability with polarized mating
- Provide design flexibility with a variety of stack heights
- Save valuable PCB space with compact connector design

[Website](#)
[Catalog](#)
[Quick Reference Guide](#)



1

2

Micro-MaTch Board-to-Board & Wire-to-Board Connectors

- Prevent fretting corrosion and allow for a longer-lasting connection with contact spring design
- Eliminate unnecessary movement in high-vibration application with high force contact system
- Support wide variety of design options with extensive product offering

[Website](#)
[Catalog](#)
[Quick Reference Guide](#)
[eLearning Module](#)



1

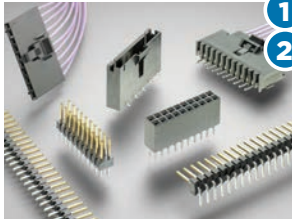
2

3

Relays

- Withstand extreme environments with high performance designs
- Design for delayed action with internal timer option
- Support system needs with various options from a single source

[Website I](#)
[Website II](#)
[Shortform Catalog](#)
[General Purpose & Signal Catalog](#)
[Product Line Card](#)



1

2

AMPMODU Board-to-Board & Wire-to-Board Connectors

- Achieve high vibration performance and reliability with polarized latching receptacles
- Reduce termination time with optional insulation displacement contacts (IDC)
- Satisfy a broad range of signal needs with easy application and competitively priced diverse portfolio

[Website I](#)
[Website II](#)
[Catalog](#)
[Quick Reference Guide I](#)
[Quick Reference Guide II](#)



1

2

Dynamic Series Wire-Applied Connectors

- Suitable for low signal to high power applications with a broad range of versatile contacts
- Save time and money with a centralized modular wiring system
- Prevent mismatching with keyed housings

[Website I](#)
[Website II](#)
[Catalog](#)
[Quick Reference Guide](#)



1

3

Terminal Blocks & Strips

- Easy assembly and expansion with modular design and interlocking features
- Support repeated connect/disconnect cycles with robust clamping technology
- Gain design flexibility with broad product offering

[Website](#)



2

4


Industrial RJ45 Connectors

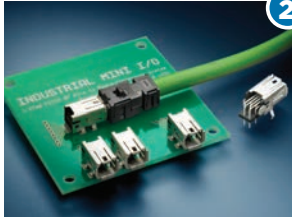
- Withstand severe shock and vibration with push-pull mechanism
- Meet TIA/EIA 568 Cat5e requirements and comply with IEC61076-3-117 - Variant 14 standard
- Allow for timesaving and flexible field installation with robust termination technology

[Website](#)
[Catalog](#)
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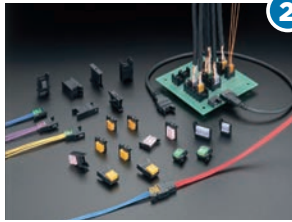


2

Industrial Mini I/O Connector System

- Avoid mismatching with polarized housing options
- Increase reliability in high vibration environments with two points of contact
- Prevent unintentional plug pull-out with unique latching system

[Website](#)
[Catalog](#)

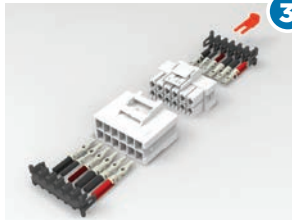


2

Remote I/O Terminal System (RITS) Connectors

- Improve performance over IDC connector with enlarged contact area and chisel piercing design
- Provide highly secure locking for cable-to-cable connection with lock lever design
- Save cost with general hand tool for easy termination

[Website I](#)
[Website II](#)
[Catalog](#)



3

Power Triple Lock (PTL) Connectors

- Ensure contacts are fully seated and protect against contact backout with optional Terminal Position Assurance (TPA)
- Achieve connector system engagement in high vibration applications with Connector Position Assurance (CPA)
- Support a variety of application requirements with three levels of housing materials

[Website I](#)
[Website II](#)
[Quick Reference Guide](#)
[Whitepaper](#)
[Video](#)



4

6

Heavy Duty Connectors (HDC)

- Lower applied cost with quick and easy assembly options
- Gain machine configuration flexibility by combining power, signal and data circuits
- Withstand severe environmental conditions with IP68 configuration options

[Website](#)
[Catalog](#)



4

6

M8/M12 Industrial Cordsets & Connectors

- Enable equipment interoperability through use of standard industrial interfaces
- Industrial Ethernet solutions ranging from 100Mb through 10Gb speeds
- Improve field termination time using factory made overmolded cable assemblies

[Website](#)



4

6

7

Circular Plastic Connectors (CPC)

- Achieve system efficiency by combining power and signal in a single interconnect
- Design for harsh environments where mechanical shock, moisture and debris are prevalent
- Accommodate quick and easy field repair with removable contacts and replaceable coupling ring

[Website](#)
[Catalog I](#)
[Catalog II](#)
[Product Presentation](#)
[Data Sheet](#)



6

Motorman Hybrid I/O Connectors

- Accommodate power and signal interconnections through a compact, rectangular housing design
- Convenient side access to interior housing for ease of installation in compact space
- Fulfill application needs with customizable design

[Website](#)
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[Video](#)



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