

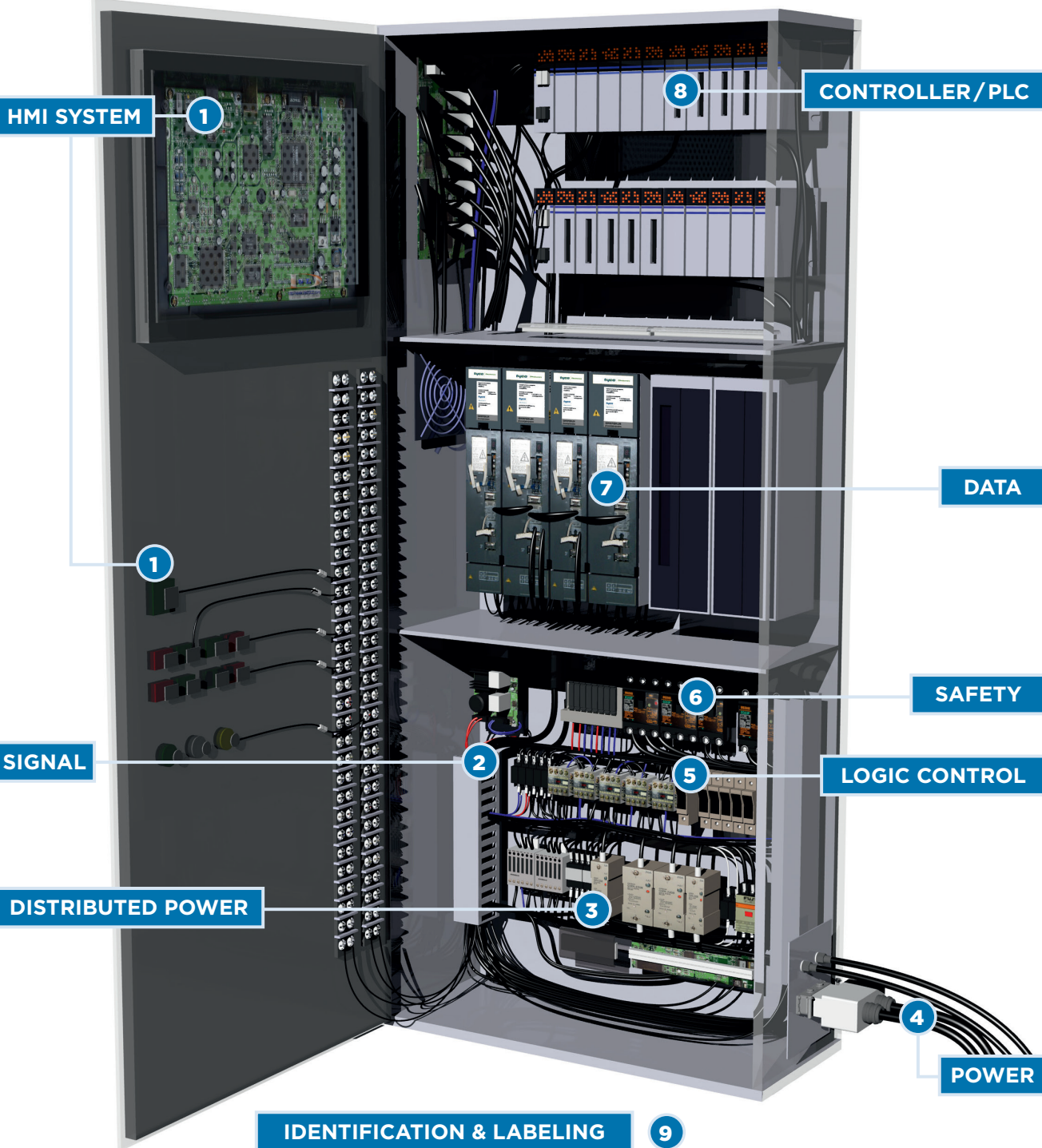


# INDUSTRIAL CONTROL

INNOVATIVE SOLUTIONS

Save on machine maintenance costs and downtime

# TE offers solutions for all of your industrial control needs both inside and outside the cabinet.



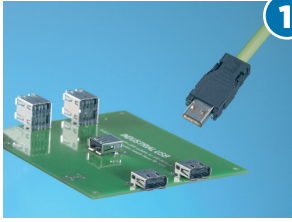
# DESIGN NAVIGATOR

		Max Current Rating (A) <sup>1</sup>	Protection from EMI/ RFI Noise	High Speed Signals/Data Communications	Environmental Sealing	High Vibration Performance	Thermal Performance	Protection Against Mechanical Shock	Wire Management	Space Savings Design	Standards
<b>1</b>	<b>HMI SYSTEM</b>										
	<a href="#">Dynamic Series Wire-Applied Connectors</a>	65					●	●			UL, RU, CSA, TUV
	<a href="#">Flexible Printed Circuit (FPC) Wire-to-Board Connectors</a>	0.5				●	●	●		●	N/A
	<a href="#">Free Height (FH) Board-to-Board Connectors</a>	0.5								●	COM Express (0.5mm FH)
	<a href="#">Heavy Duty Connectors (HDC)</a>	350	●		●	●	●	●			UL, CSA, SEV, VDE, DIN
	<a href="#">Industrial Mini I/O Connector System</a>	0.5				●	●	●			N/A
	<a href="#">Industrial Mini I/O Field Installable Connectors</a>	0.5				●	●	●		●	Cat 5e
	<a href="#">Industrial RJ45 Metal Shell Connectors</a>	0.5		●	●	●	●	●	●	●	UL, CSA, ODVA Ethernet/IP
	<a href="#">Industrial USB Connectors</a>	1.5		●	●	●	●	●			UL, CSA, Industry*, Mil
	<a href="#">Knobs</a>	N/A									N/A
	<a href="#">Precision Resistors</a>		Refer to the table below for product detail								N/A
	<a href="#">Switches</a>	25		●	●						RU, CSA, VDE, UL
	<a href="#">Switching Coax Connectors</a>	0.5			●	●		●			ETSI
	<a href="#">Terminals &amp; Splices</a>	30				●	●	●	●		UL, CSA, Industry*
<b>2</b>	<b>SIGNAL</b>										
	<a href="#">AMPLIMITE D-Subminiature Connectors</a>	7.5	●			●	●	●	●		CSA, UL
	<a href="#">AMPMODU MTE Wire-applied Connectors</a>	3				●	●	●	●		
	<a href="#">AMPMODU System 50 Board-to-Board &amp; Wire-to-Board Conn.</a>	1				●	●	●	●		
	<a href="#">Dynamic Series Wire-Applied Connectors</a>	65				●	●	●			UL, RU, CSA, Industry*
	<a href="#">M8/M12 Connector System</a>	5	●	●	●	●	●	●		●	UL, CSA
	<a href="#">Mini-Universal MATE-N-LOK Wire-Applied Connectors</a>	9.5			●	●	●	●	●		RU, CSA, UL
	<a href="#">Remote I/O Terminal System (RITS) Connectors</a>	3			●	●	●	●		●	UL
<b>3</b>	<b>DISTRIBUTED POWER</b>										
	<a href="#">CROWN LINE Power Bus Bar System</a>	300				●			●	●	RU
	<a href="#">DIN Rail Adapters</a>	0.75	●	●					●		ISO 11801/TIA 568
	<a href="#">DIN Rail Modular Jacks</a>	20	●			●		●	●	●	UL, CSA
	<a href="#">Pluggable Bus Bar Connectors &amp; Sockets</a>	500				●					RU
	<a href="#">RAPID LOCK Bus Bar Connectors</a>	300				●			●	●	RU
	<a href="#">Solid State Relays &amp; I/O Modules</a>	125	●	●		●		●			RU, CSA
	<a href="#">Terminal Blocks &amp; Barrier Strips</a>	30					●				RU, CSA
	<a href="#">Universal MATE-N-LOK Wire-Applied Connectors</a>	19			●	●	●	●	●		RU, CSA, UL, VDE
<b>4</b>	<b>POWER</b>										
	<a href="#">AMP Power Series Wire-Applied Connectors</a>	275				●	●	●	●		UL, CSA
	<a href="#">Cable Assemblies<sup>2</sup></a>	N/A	●			●	●	●	●		UL, CSA, VDE
	<a href="#">Circular Plastic Connectors (CPC)</a>	60			●	●	●	●	●		UL, CSA, VDE
	<a href="#">Corcom Power Line Filters</a>	200					●				RU, UL, CSA, VDE, Industry*
	<a href="#">Heavy Duty Connectors (HDC)</a>	350	●		●	●	●	●			UL, CSA, SEV, VDE, DIN
	<a href="#">High Current ELCON Drawer Connectors</a>	200									UL, RU
	<a href="#">MULTI-BEAM XLE Power Connectors</a>	50									N/A
	<a href="#">Pluggable Bus Bar Connectors</a>	500									RU
<b>5</b>	<b>LOGIC CONTROL</b>										
	<a href="#">Contactors</a>	120									UL, RU, CSA, Industry*
	<a href="#">Relays</a>	50			●		●			●	RU, CSA, UL, VDE, Industry*
	<a href="#">Timers</a>	10									RU, CE, UL, CSA
	<a href="#">Transformers</a>	N/A									RU
<b>6</b>	<b>SAFETY</b>										
	<a href="#">Circuit Breakers</a>	50			●					●	RU, CSA, VDE, CCC
	<a href="#">Circuit Protection Devices</a>	100		●		●	●	●		●	UL, CSA, TUV
	<a href="#">Force Guided Relays</a>	8			●					●	RU, VDE, TUV, CQC, Industry*
<b>7</b>	<b>DATA</b>										
	<a href="#">Cable Assemblies<sup>2</sup></a>	N/A	●	●	●	●	●	●	●	●	UL, CSA, VDE
	<a href="#">Industrial Mini I/O Field Installable Connectors</a>	0.5				●				●	Cat 5e
	<a href="#">Industrial RJ45 Metal Shell Connectors</a>	0.5	●	●	●	●	●	●	●	●	UL, CSA
	<a href="#">M8/M12 Connector System</a>	5	●	●	●	●	●	●		●	UL, CSA
	<a href="#">PC Card Connectors (PCMCIA Compliant)</a>	5	●			●		●		●	PCMCIA
	<a href="#">RJ45 Modular Jacks &amp; Plugs</a>	1.5	●	●		●		●		●	RU, UL, CSA, Industry*
<b>8</b>	<b>CONTROLLER/PLC</b>										
	<a href="#">Circular Plastic Connectors (CPC)</a>	60			●	●	●	●	●		UL, CSA, VDE
	<a href="#">CROWN CLIP Power Bus Bar Sockets</a>	350									UL (USR & CNR), CSA
	<a href="#">Dynamic Series Wire-Applied Connectors</a>	30				●	●	●			UL, RU, CSA, TUV
	<a href="#">Eurostyle Terminal Blocks</a>	125					●			●	RU, CSA, VDE
<b>9</b>	<b>IDENTIFICATION &amp; LABELING</b>										
	<a href="#">Cable Identification/Wire Markers</a>	N/A				●	●	●			UL, CSA, Mil, Industry*
	<a href="#">Heat Shrink Tubing</a>	N/A	●		●	●	●	●	●		UL, CSA, Mil, Industry*, IEC
	<a href="#">Pressure Sensitive Adhesive Labels</a>	N/A	●	●	●	●	●	●	●	●	UL, CSA, Mil, Industry*

PRECISION RESISTORS						
Series	Size	Power Rating (W)	TCR (ppm)	Value Range	Limiting element Voltage (V)	Max Overload Voltage (V)
RN73 Series	0402 - 2512	0.063 - 0.5	10	4R7 - 1M0	25 - 150	50 - 300
CPF Series	0201 - 2512	0.03125 - 0.5	25	4R7 - 3M0	15 - 150	30 - 300
RP73 Series	0402 - 2512	0.063 - 1.0	15	4R7 - 1M0	25 - 200	50 - 400
RP73P Series	0603 - 0805	0.1666 - 0.25	25, 50	10R - 500K	100 - 150	150 - 300

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

# FEATURED PRODUCTS



## Industrial USB Connectors

- Minimize downtime during equipment transfer with secondary locking feature
- Support data transfer rates of standard USB 2.0 or the 10 times faster USB 3.0
- Ideal for harsh environments with either IP20 ruggedized or IP67 sealed designs

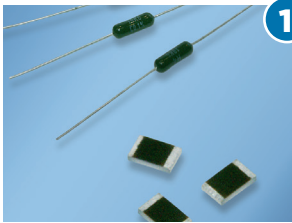
[Website](#)  
[Catalog](#)  
[Quick Reference Guide](#)  
[Product Presentation](#)



## Terminals & Splices

- Reliable in thermally diverse applications due to high quality crimp / brazed seam
- Improve productivity and reliability through quick connection design
- Gain design flexibility and ease of maintenance with broad portfolio

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



## Precision Resistors

- Gain long term application stability with ultra-low temperature sensing
- Minimize electronic noise with thin film precision resistors
- Reduce inventory cost with flexibility in lead-time/packaging

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



## 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

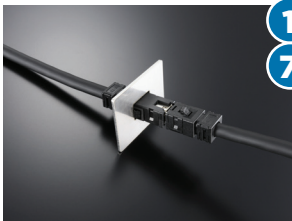
[Website](#)  
[Quick Reference Guide](#)  
[Catalog](#)



## 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](#)



## Industrial Mini I/O Field Installable Connectors

- Obtain a Cat5e connection using a small and rugged industrial connector
- Save wire termination time with an innovative field installable piercing contact
- Ensure reliable connections in industrial and vibration-prone environments

[Website](#)  
[Quick Reference Guide](#)  
[Product Presentation](#)

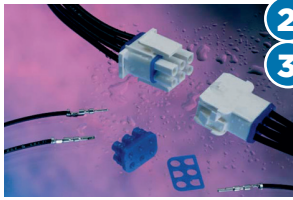


## M8/M12 Connector System

- Reach up to 10 Gb/s connections with a high speed rugged industrial connection
- Save time and money with a complete standard portfolio of connectors, cable assemblies and passive I/O modules
- Design for applications exposed to harsh environments and extreme temperatures

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

# FEATURED PRODUCTS



2  
3

## Universal MATE-N-LOK Wire-Applied Connectors

- Achieve design flexibility and polarization with interchangeable contacts
- Improve reliability in high moisture environments with splash proof options
- Maintain ultimate safety with egg-crated, finger-proof design

[Website](#)  
[Catalog](#)  
[Product Presentation](#)



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## Eurostyle and Barrier style Terminal Blocks

- 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](#)  
[Quick Reference Guide](#)  
[Catalog](#)  
[Brochure](#)  
[Product Presentation](#)



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## Corcom Power Line Filters

- Meet emission standards with EMI /RFI protection
- Gain design flexibility with multiple termination options on high current power filters
- Solve challenges with custom design, testing and qualification capabilities

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



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## MULTI-BEAM XLE Power Connectors

- Enable ease of operation with hot-pluggable contacts (high power rated at 75 Amps/low power rated at 40 Amps)
- Lower transients with sequenced contacts for mate-first-break-last operation
- Achieve long system life with high durability (up to 500 cycles)

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



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## Circular Plastic Connectors (CPC)

- Mixed power and signal available in a single interconnect
- Ideal for harsh environments where mechanical shock, moisture and debris are prevalent
- Efficient field repair achieved by removable contacts and replaceable coupling ring

[Website](#)  
[Catalog I](#)  
[Catalog II](#)  
[Product Presentation](#)  
[eLearning Module](#)



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## 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](#)



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## Industrial Ethernet Products

- Industrial Ethernet solutions ranging from 100Mb through 10Gb speeds
- Ideal for harsh environments with a secure, sealed interconnection
- Complies with major Industrial Ethernet protocols

[Website](#)  
[Catalog](#)  
[eLearning Module](#)  
[Product Presentation](#)



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## Identification & Labeling

- Suitable for harsh environments using thermal transfer, laser printer or hand written technologies
- Supports standard and customized requirements with fully compatible product family

[Website](#)

## LET'S CONNECT

TE Connectivity (TE) is your industrial control 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](http://te.com). TE's reliable, quick to install and industry-proven components will help you save on machine maintenance costs and downtime.

## Technical Support

[te.com/support-center](http://te.com/support-center)

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Brazil	+55 11-2103-6000	Italy	+39 011-4012111	Slovenia	+38 615-602-132
China	+86 400-820-6015	Japan	+044-844-8052	South Africa	+97 150-457-0806
Czech Republic	+42 02-7201-1103	Korea	+02-3415-4607	Spain	+34 932-910-330
Denmark	+46 8-5072-5000	Latvia	+37 2-6778-673	Sweden	+46 8-5072-5000
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