



## DT Highspeed Connectors

### Data Connectivity Solutions for Industrial & Commercial Transportation

TE Connectivity's (TE) DT highspeed sealed connectors enable highspeed Ethernet channels from 100 Mbps to 1 Gbps (IEEE 802.3bp multi-Gb protocol) to meet current and future data connectivity demands in commercial and industrial vehicles. DT highspeed connectors are the first of their kind to reach channel lengths up to 40 meters - the standard length needed in the commercial and industrial vehicle industry. Comparative products can only reach lengths up to the standard 15 meters found in the automotive industry. They also meet the unique temperature and reliability requirements of vehicles and heavy equipment used in the industry's harshest environments. DT highspeed connectors can be used in applications that require additional cameras, sensors such as LiDAR and RADAR, enhanced network architectures, increased information and displays, and large-bandwidth backbones.

These connectors utilize our time-tested DEUTSCH DT/DTM interface and DEUTSCH size 20 common contacts so you can feel confident in their dependability and performance. Existing DEUTSCH tooling may also be used to crimp wires. The simplified termination design allows for harness makers to terminate to cable without overly complex process parameters or costly equipment, so you can tap into your existing harnessing supply infrastructure.

#### FEATURES & BENEFITS

##### Address Needs of Industrial & Commercial Transportation

- Support channel lengths up to 40 meters with 4 in-line connections
- Thicker cable ranges from 0.35 - 0.50 mm<sup>2</sup> (22 - 20 AWG)

##### Dependability

- Utilize our industry-proven DEUTSCH DT and DTM interface and DEUTSCH size 20 shielded terminal system
- Protect against water and dust ingress by meeting IP67, IP69K and USCAR2
- Robust design helps confirm signal integrity in the harshest environments

##### Flexible and Easy to Adopt

- Interoperable with other TE Ethernet connectors, enabling a broad, off-the-shelf portfolio of sealed and unsealed design options
- Use existing tooling already widely available in the market

##### Design for the Future

- Enable speeds from 100 Mbps to 1 Gbps to meet current and future data connectivity demands

#### APPLICATIONS



Network Backbone



Displays



Camera Systems



Sealed Controllers



Gateway/Switch



Long Lengths

#### KEY INDUSTRIES



Agriculture



Construction



Truck



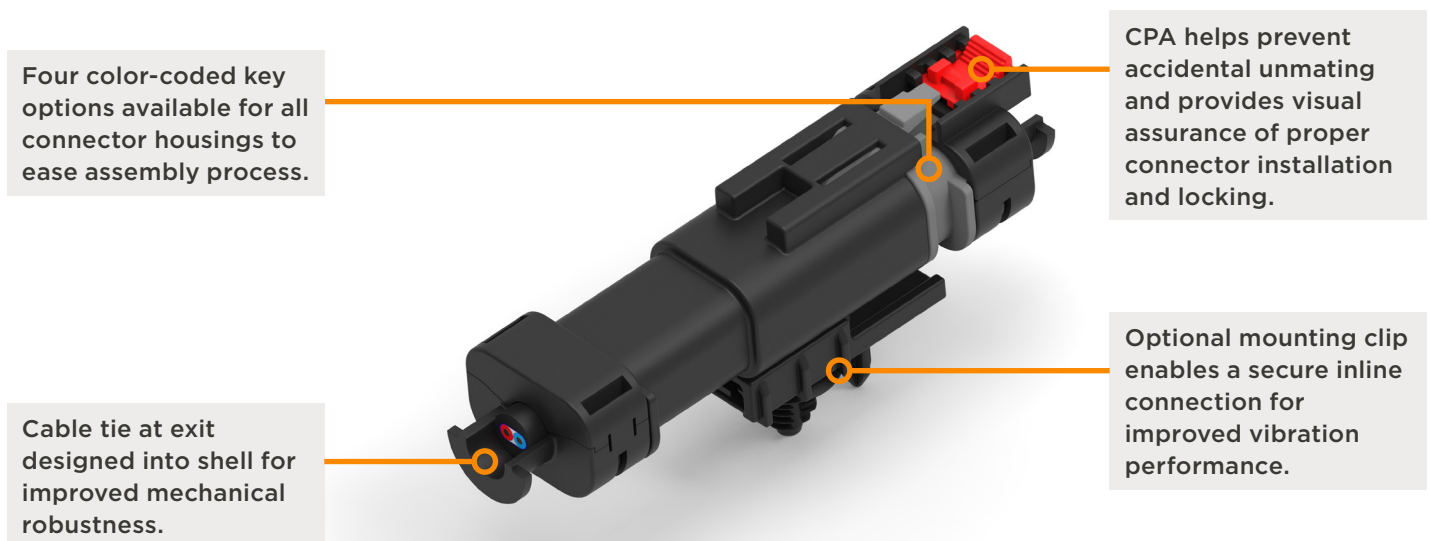
Bus

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### PRODUCT FEATURES


Communication Protocols	1000BASE-T1 (1 Gb) Type A (15 m) and Type B (40 m)
Cable Type	Jacketed shielded twisted pair (STP)
Cable Size	0.35 - 0.50 mm <sup>2</sup> (22 - 20 AWG)
Sealing Performance	IP67, IP69K and USCAR2
Operating Temperature	-40°C to 125°C
Connections	Cable-to-cable, cable-to-board/device
Terminal System	DEUTSCH size 20 contacts; existing crimp tooling
Vibration	Vibration class V1 as per USCAR2
Flammability	Molded from UL 94 V-0 rated resin
Standards & Specifications	Meets IEEE 802.3bw Type A and Type B performance ratings Product Specification: 108-94825 Application Specification: 114-94706



**CONNECTORS**

Sockets				
	Key	Color	Socket Housing Assembly	Socket Connector Kit <sup>2</sup>
	A	Black	9-2367337-1	9-2386764-1
	B	Gray	9-2367337-2 <sup>1</sup>	-
	C	Green	9-2367337-3 <sup>1</sup>	-
	D	Blue	9-2367337-4 <sup>1</sup>	-

Socket Sub-Assembly		9-2370714-1
Socket Cover Assembly w/CPA		9-2367345-1

Pins				
	Key	Color	Pin Housing Assembly	Pin Connector Kit <sup>2</sup>
	A	Black	9-2367341-1	9-2386764-1
	B	Gray	9-2367341-2 <sup>1</sup>	-
	C	Green	9-2367341-3 <sup>1</sup>	-
	D	Blue	9-2367341-4 <sup>1</sup>	-

Pin Sub-Assembly		9-2370710-1
Pin Cover Assembly		9-2367344-1
Pin Housing Assembly		9-2383999-1



Slide Tab Housings			
	Panel Thickness	Color	Part Number
	1.5 mm	Gray	2384002-1
	3 mm	Yellow	2384002-3
	3.5 mm	Blue	2384002-4
	2 mm	Green	2384002-5
	4 mm	White	2384002-6
	1 mm	Violet	2384002-7

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180° PCB Header Assemblies			
Key	Color		Part Number
A	Black		9-2367359-1
B	Gray		9-2367359-2 <sup>1</sup>
C	Green		9-2367359-3 <sup>1</sup>
D	Blue		9-2367359-4 <sup>1</sup>



90° PCB Header Assemblies			
Key	Color		Part Number
A	Black		2386211-1
C	Black		2386211-3



<b>Header 180° - Shielded Pin Sub-Assembly</b>		9-2370714-1
<b>Header 90° - Shielded Pin Sub-Assembly</b>		2386215-1

<sup>1</sup> Contact TE for more information and availability.

<sup>2</sup> Kits contain all connector components and terminals to assemble one full connector - cable not included.

### SEAL/FERRULE HARDWARE

		Cable Size	Hardware Part Number	Use With
Single Wire Seal		20 AWG [0.5 mm <sup>2</sup> ]	9-2367346-1	9-2367345-1 9-2367344-1
Crimp Ferrule		20 AWG [0.5 mm <sup>2</sup> ]	9-2370624-1	9-2370714-1 9-2370710-1

	Description	Part Number	Use With	Mates To
Socket Terminal	DEUTSCH Socket Size 20 (AWG) Solid Terminal, AU Plating	0462-201-2031	9-2370714-1	0460-202-2031
Pin Terminal	DEUTSCH Pin Size 20 (AWG) Solid Terminal, AU Plating	0460-202-2031	9-2370710-1	0462-201-2031
Mounting Clip	 DT Mounting Clip, BLK, Fir Tree Stud Mount	1011-310-0205	9-2367341-X	-
Blind Plug	 Blind Plug, Key - Universal	2384003-1	-	9-2367341-X 9-2367359-X

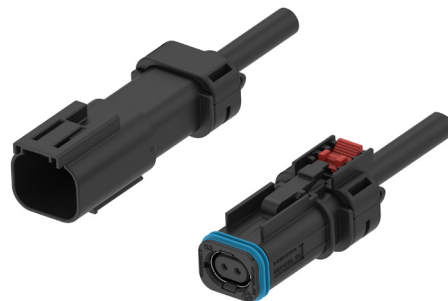
**CABLE ASSEMBLIES**

	Cable Length (m)	Cable Size	Part Number
Female-to-Female	0.5	20 AWG [0.5 mm <sup>2</sup> ]	2382948-1
	1.0	20 AWG [0.5 mm <sup>2</sup> ]	2382948-2
	1.5	20 AWG [0.5 mm <sup>2</sup> ]	2382948-3
	3.0	20 AWG [0.5 mm <sup>2</sup> ]	2382948-4
	5.0	20 AWG [0.5 mm <sup>2</sup> ]	2382948-5
	7.5	20 AWG [0.5 mm <sup>2</sup> ]	2382948-6
	10.0	20 AWG [0.5 mm <sup>2</sup> ]	2382948-7
	28.0	20 AWG [0.5 mm <sup>2</sup> ]	2382948-8
Male-to-Female	0.5	20 AWG [0.5 mm <sup>2</sup> ]	2382949-1
	1.0	20 AWG [0.5 mm <sup>2</sup> ]	2382949-2
	1.5	20 AWG [0.5 mm <sup>2</sup> ]	2382949-3
	3.0	20 AWG [0.5 mm <sup>2</sup> ]	2382949-4
	5.0	20 AWG [0.5 mm <sup>2</sup> ]	2382949-5
	7.5	20 AWG [0.5 mm <sup>2</sup> ]	2382949-6
	10.0	20 AWG [0.5 mm <sup>2</sup> ]	2382949-7

Non-standard cable lengths are available upon request.




Female-to-Female Cable Assembly



Male-to-Female Cable Assembly

**APPLICATION TOOLING**

	Description	Part Number
	DT Size 20 Terminal Hand Crimp Tool	HDT-48-00

## ABOUT TE CONNECTIVITY

TE Connectivity is a global industrial technology leader creating a safer, sustainable, productive, and connected future. Our broad range of connectivity and sensor solutions, proven in the harshest environments, enable advancements in transportation, industrial applications, medical technology, energy, data communications, and the home.

With more than 85,000 employees, including over 8,000 engineers, working alongside customers in approximately 140 countries, TE ensures that EVERY CONNECTION COUNTS. Learn more at [www.te.com](http://www.te.com) and on LinkedIn, Facebook, WeChat and Twitter.

## LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. For additional information or product assistance, please contact your field representative or our customer service department. Additional information is also available on the website [te.com/ict](http://te.com/ict).

## TECHNICAL SUPPORT

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