



Heavy Duty Sealed Connector Series with MATENet Inserts

Data Connectivity Solutions for Industrial & Commercial Transportation

Heavy Duty Sealed Connector Series with MATENet inserts leverages the high performance of MATENet terminals and the rugged reliability and scalability of Heavy Duty Sealed Connector Series housings to enable Ethernet connectivity up to 1 Gbps on chassis applications in heavy-duty commercial vehicles.

These products are designed to be modular and highly adaptive to meet the specific needs of each customer. Unshielded twisted pair (UTP) cable and shielded twisted pair (STP) cable can be used within the same connection system. They support 100 Mbps through 1 Gbps speeds and are compliant with industry standard protocol 100BASE-T1 and 1000BASE-T1. This solution provides hybrid connections for Ethernet and power, expanding the usage possibilities. All the tried-and-true reliable features of our Heavy Duty Sealed Connector Series housings are taken advantage of here – a built-in secondary lock for contact retention, IP67 and IP6K9K (with backshell) dust and water protection, and vibration and mechanical shock resistance.

Finally, Heavy Duty Sealed Connector Series with MATENet inserts are easy to assemble and install with low mating force, a reliable slide locking mechanism that comes in the pre-locked position, and mechanical polarization and several keying options.

FEATURES & BENEFITS

Highly Adaptive Design

- Scalable for use with UTP and STP cable.
- Support hybrid connections for Ethernet and power and multiple wire sizes based on application needs.
- Tab housing options for in-line and panel-mount applications, and standard 180° and 90° headers.

Rugged & Reliable

- Secure connection with a built-in secondary locking feature for contact retention.
- IP67 and IP69K (with backshell) rated.
- Vibration and mechanical shock resistance.

Design for the Future

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

APPLICATIONS



Network Backbone



Sensors



Camera Systems



Sealed Controllers



Gateway/Switch



Radar/LiDAR



In-Cabin



Chassis

KEY INDUSTRIES



Agriculture



Construction



Truck



Bus

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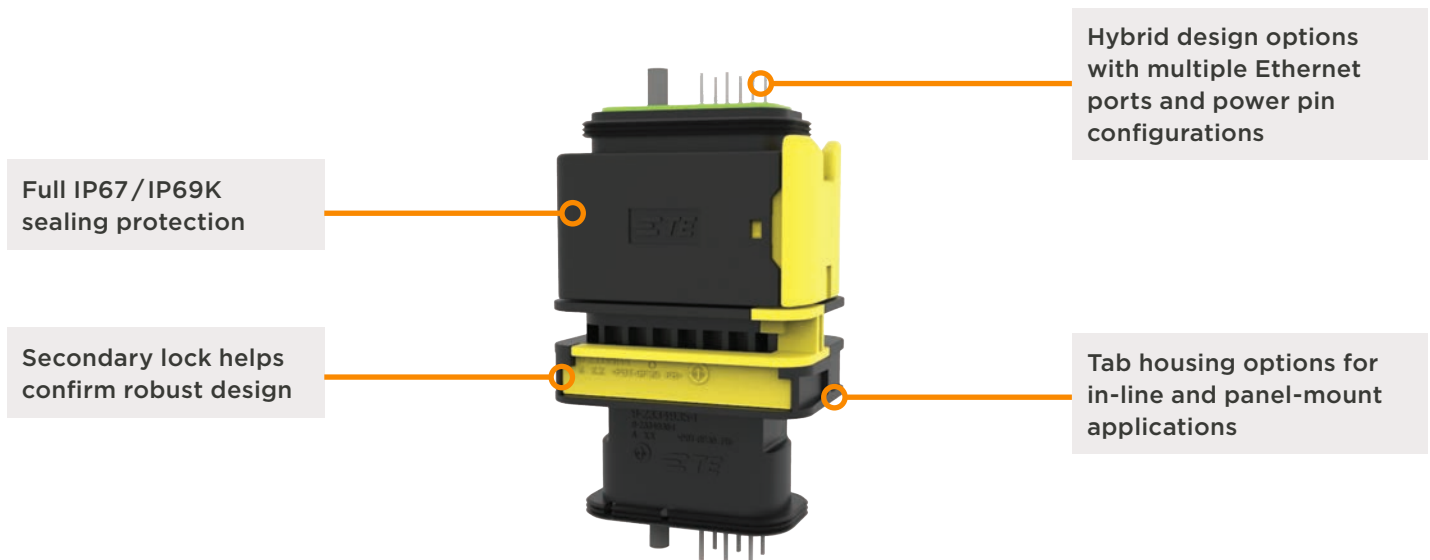
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PRODUCT FEATURES

Communication Protocols	IEEE 802.3bw 100BASE-T1 (100 Mbps) and IEEE802.3bp 1000BASE-T1 (1 Gbps)
Cable Type	Jacketed unshielded twisted pair (UTP) and shielded twisted pair (STP)
Cable Size	UTP max. 0.35 mm ² (22 AWG); STP max. 0.14 mm ² (26 AWG)
Sealing Performance	IP67 and IP69K (with backshell)
Operating Temperature	-40°C to +125°C
Connections	In-line wire-to-wire, bulkheads
Terminal System	MATEnet terminals for Ethernet; AMP MCP 1.5 terminals for power
Voltage Rating	48 V (PoDL compliance)

DOCUMENTATION

	In-line Housings	Headers	MATEnet Cable Assembly
Product Group Drawings	2362319	2385756	-
Product Specifications	108-94752	108-94818	-
Application Specifications	114-94625	114-94694	114-94431













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Group C Size

CONNECTORS

Pos	Description	Key/Color	Receptacle (Female) Housing Part Number		Tab (Male) Housing Part Number				Header Assembly Part Number			
					Without Flange		With Flange		Vertical Orientation (180°)		Right Angle Orientation (90°)	
1+2	(1x) MATEnet terminal Ethernet connection	Code A / Black		9-2354261-1		9-2354242-1		9-2354248-1		9-2375248-1		9-2375246-1
		Code B / Gray		9-2354261-2		9-2354242-2		9-2354248-2		9-2375248-2		9-2375246-2

ACCESSORIES

Description	Color	Part Number	
	Single Wire Seal, OD: 2.5 mm	Gray	2348771-1
	Single Wire Seal, OD: 4 mm	Orange	2348771-2
	Inserts Seal Clip, OD: 3.3 mm	Black	2348770-1
	Inserts Seal Clip, OD: 4 mm	Black	2348770-2
	Inserts Seal Clip, OD: 6 mm	Black	2348770-3

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Description	Part Number
Backshell 90°	1670057-1
Backshell 180°	1670364-1
Protection Cap, Unsealed	2112301-1
Protection Cap, Sealed	2112293-1
Fixing Slides	1670720







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Group D Size

CONNECTORS

Pos	Description	Key/Color	Receptacle (Female) Housing Part Number		Tab (Male) Housing Part Number		Header Assembly Part Number			
					Without Flange		Vertical Orientation (180°)		Right Angle Orientation (90°)	
1+6	(1x) MATEnet terminal Ethernet connection (6x) 1.5 AMP MCP terminals	Code A / Black		9-2331355-1		9-2334935-1		9-2363903-1		9-2363899-1
		Code B / Gray		9-2331355-2		9-2334935-2		-		-
		Code C / Green		9-2331355-3		9-2334935-3		-		-
		Code D / Blue		9-2331355-4		9-2334935-4		-		-

ACCESSORIES

Description	Color	Part Number
 Single Wire Seal, OD: 2.5 mm	Green	9-2334941-1
 Inserts Seal Clip, OD: 3.3 mm	Black	9-2334942-1
	Blue	9-2334942-2

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Description	Part Number
Backshell 90°	1563110-1
Backshell 180°	1563111-1
Protection Cap, Unsealed	2112302-1
Protection Cap, Sealed	2112295-1
Fixing Slides	1564562





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Group E Size

CONNECTORS

Pos	Description	Key/Color	Receptacle (Female) Housing Part Number		Tab (Male) Housing Part Number		Header Assembly Part Number			
					Without Flange	With Flange	Vertical Orientation (180°)	Right Angle Orientation (90°)		
1+12	(1x) MATEnet terminal Ethernet connection (12x) 1.5 AMP MCP terminals	Code A / Black		9-2348795-1		9-2348792-1	Contact TE	9-2375230-1	9-2375228-1	
		Code B / Gray		9-2348795-2		9-2348792-2		-	-	
2+6	(2x) MATEnet terminal Ethernet connection (6x) 1.5 AMP MCP terminals	Code A / Black		9-2348786-1		9-2348782-1		9-2348789-1	9-2375235-1	9-2375233-1
		Code B / Gray		9-2348786-2		9-2348782-2		9-2348789-2	-	-
3+0	(3x) MATEnet terminal Ethernet connection	Code A / Black		9-2348776-1		9-2348772-1	Contact TE	9-2375241-1	9-2375237-1	
		Code B / Gray		9-2348776-2		9-2348772-2		-	-	

ACCESSORIES

Description	Color	Part Number	
 Single Wire Seal, OD: 2.5 mm	Gray	2348771-1	
 Single Wire Seal, OD: 4 mm	Orange	2348771-2	
 Inserts Seal Clip	OD: 3.3 mm	Black	2348770-1
	OD: 4 mm	Black	2348770-2
	OD: 6 mm	Black	2348770-3

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Description	Part Number
Backshell 90°	1670865-1
Backshell 180°	1370866-1
Protection Cap, Unsealed	2112303-1
Protection Cap, Sealed	2112297-1
Fixing Slides	1564411



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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 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.

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