enetSEAL+ CONNECTORS

Data Connectivity Solutions
for Industrial & Commercial Transportation

TE Connectivity's (TE) enetSEAL+ connectors support single pair 100 Mbps Ethernet with up to four in-line connections in a rugged interface to provide high speed data for applications like cameras, sensors, and displays within heavy-duty commercial and industrial vehicles. These connectors are compliant with IEEE 802.3bw 100BASE-T1 and BroadR-Reach communication protocols and utilize 20-22 AWG (0.50-0.35 mm^2) Unshielded Twisted Pair (UTP) jacketed cable for a small, lightweight design.

enetSEAL+ connectors provide dependable performance in harsh environments with the use of industry proven MCON 1.2 clean body (CB) terminals for high vibration applications and long-term reliability. A built-in secondary locking feature provides added contact retention security, and the portfolio meets IP6K9K sealing performance (with backshell).

By using the MCON 1.2 CB terminal system and existing tooling, enetSEAL+ connectors are easy to assemble. Should harness repair be required in the field, terminals can be removed from the housing and connection can be repaired with simple hand tools, reducing service complexity and cost.

FEATURES & BENEFITS

Dependable Performance

- Terminal pitch optimized for excellent IEE802.3bw 100BASE-T1 signal performance of single twisted pair channel.
- Meets tough USCAR2 ingress protection, vibration, and design standards.

Convenient Assembly & Maintenance

- Use existing tooling already widely available in the market.
- Utilizes standard MCON 1.2 CB terminal system with connector mat seal design for ease of assembly.
- Tool-free design for attaching sealed headers to device cover and pass-through adapter to bulkhead.

Design Flexibility

- Broad, integrated connector portfolio.
- Cable sizes 20–22 AWG (0.50-0.35 mm^2).
- Supports full system architecture 100 Mbps solution.
- Plug fits through a 20 mm tube, making it the smallest sealed Ethernet connector in our portfolio for industrial and commercial vehicles.

APPLICATIONS

Network Backbone	Display	Camera Systems	Sealed Controllers	Gateway/ Switch	Telemetry Units	Radar/ LiDAR

KEY INDUSTRIES

Agriculture	Construction	Truck	Bus

PRODUCT FEATURES

Communication Protocols	IEEE 802.3bw 100BASE-T1, BroadR-Reach
Cable Type	Jacketed unshielded twisted pair (UTP)
Cable Size	0.50 mm^2 (20 AWG) to 0.35 mm^2 (22 AWG)
Sealing Performance	IP67, IP69K and USCAR2 (with backshell)
Operating Temperature	-40°C to +125°C
Connections	Cable-to-cable, cable-to-board
Terminal System	MCON 1.2 CB
Design Flexibility	Compatible with TE's hybrid sealed Heavy Duty Sealed Connector Series with MATEnet inserts in combination with 0.35 mm^2 (22 AWG) UTP cable for 100 Mbps applications
Connector Pitch	2.54 mm (0.100 in)
Standards & Specifications	Product Specification: 108-151045 Application Specification: 114-151045

CPA

Backshell option to confirm IP69K performance.

Terminal pitch optimized for a single pair Ethernet replacement for M12 and CAN connections.

Small, leightweight design supports 20-22 AWG UTP jacketed cable.

CONNECTOR HOUSINGS

Positions	Plug (Female) Housing			In-line (Male) Housing			Panel Mount Pass-Through Adapter Assembled Seal		
		Keying	Part Number		Keying	Part Number		Keying	Part Number
2		Code A	2292906-1		Code A	2292937-1		Code A-A	2325106-1
		Code B	2292906-2		Code B	2292937-2		Code B-B	Contact TE

Positions	Keying	180° Header Assembled Seal		180° Header w/ Flange, Assembled Seal		180° Header Dispensed Sealant		180° Header w/ Flange, Dispensed Sealant		90° Header Dispensed Sealant	
			Part Number		Part Number*		Part Number		Part Number		Part Number
2	Code A		2325102-1		2325102-7		2325103-1		2325103-7		2339032-1
	Code B		Contact TE		Contact TE		Contact TE		Contact TE		Contact TE

* Use with mounting clip for locking seal to panel/cover

ACCESSORIES & TERMINALS

	Description	Keying/Color	Part Number
	Mounting Clip 4.5 mm panel thickness	Brown	2325098-2
	Mounting Clip 3.5 mm panel thickness	Gray	2325098-4
	Mounting Clip 3.0 mm panel thickness	Yellow	2325098-6
	Mounting Clip 2.0 mm panel thickness	Violet	2325098-7
	Mounting Clip 1.0 mm panel thickness	Green	2325098-8
	Wire Dress Backshell	Straight	2272168-1
	2P Blind Plug Assembly	Code A	2345284-1
		Code B	2345284-2
	2P Blind Cap Assembly	Universal	2376612-1

Description	Plating	Wire Size	Female	Male
			Part Number	
MCON 1.2 Clean Body (CB) Terminals	Gold (Au)	20 AWG (0.5-0.75 mm^2)	1670144-2	1718350-2
	Silver (Ag)		1670144-3	1718350-3
	Gold (Au)	22 AWG (0.25-0.35 mm^2)	1534594-2	1718348-2
	Silver (Ag)		1534594-3	1718348-3

Additional terminal sizes and platings available

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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