

TMC3 Terminator™ cable gland

EATON CROUSE-HINDS
SERIES

IF 1890

Installation & maintenance information

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

APPLICATION

TMC3 Series Terminator™ Cable Fittings are designed for use with Type MCC/MC-HL with continuously corrugated armor and TECK with interlocked armor, ITC and Type TC/TC-ER/TC-ER-HL tray cable in ordinary and hazardous (classified) locations when installed, in accordance with NEC/CEC. They are installed to provide a means for passing the cable into an enclosure, panelboard, or other equipment; forms a mechanical termination to prevent the ingress of water and dust and also provide a ground continuity between cable armor and metallic enclosures.

The TMC3 carries the following certifications:

- cULus to UL514B, UL2225, CSA C22.2 No.18.3, CSA C22.2 No. 60079-0, -7, -31
- ATEX/IECEx to EN/IEC 60079-0, -7, -31
- Listed for wet locations
- Suitable for use in Class I, Division 2 per NEC
- Listed for Class II, Division 1, Groups E,F,G and Class III
- IECEx UL 19.0079X, DEMKO 19 ATEX 2260X, Ex eb IIC Ex tb IIIC

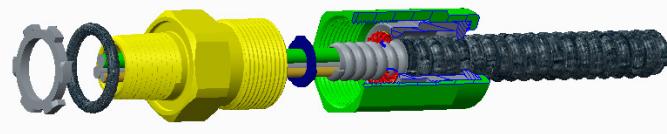
NEMA 4X, IP66

WARNING

To avoid risk of electrical shock, electrical power must be OFF before and during installation and maintenance.

AVERTISSEMENT

Pour éviter tout risque de choc électrique, l'alimentation électrique doit être COUPEE avant et pendant l'installation et la maintenance.



RECOMMENDATIONS FOR INSTALLATION

Although not required for certification, it is recommended that suitable grease be used on the threads, on the body and back nut, and must be non-setting, non-metallic, non-combustible and maintaining earthring. It can be Eaton's Crouse-Hinds series type HTL in applications with extreme temperatures from -60°C to +109°C, or STL lubricants.

CABLE PREPARATION

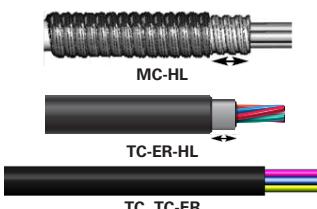
1. Remove jacket (and armor, if applicable) from the cable to expose a sufficient length of conductors required for the job.

When using Type MC cable or TC-ER-HL cable, leave a length of armor (Metallic or Polymeric) exposed as specified in the table below. Use the provided strip gauge to aid with sizing and strip length. If a strip gauge is not available, determine strip length based on the detail in Table 1 below.

CABLE JACKET REMOVAL TABLE

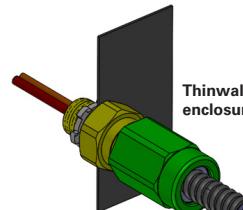
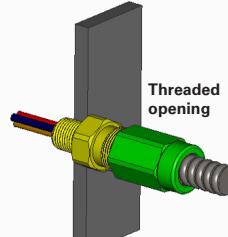
Cat. #	Length
TMC3-050-0	
TMC3-075-0	1.20" (30mm)
TMC3-050-1	
TMC3-075-1	1.36" (34mm)

Table 1

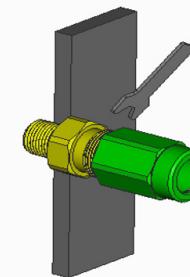


2. The TMC3 may be installed in a variety of opening types.

- NO DISSASSEMBLY OF THE TMC3 CONNECTOR IS REQUIRED FOR INSTALLATION! There is no need to remove the nut or disassemble the product (Other than the locknut).
- Examine the connector to make sure that neither the spring nor the bushing is pre-compressed.
- Install TMC3 directly into threaded opening or hub, wrench-tight.
- The TMC3 may also be installed in a thin-wall enclosure with a locknut. Hand tighten the locknut and then further tighten ¼ turn past hand tight with flathead screwdriver and hammer. For added grounding capability internal to the enclosure or if installing in a PVC enclosure, a UL Listed Myers' ground hub or grounding bushing is recommended.



- Ensure cable is free from dents, tears in jacket, or other damage that could result in environmental sealing being compromised. If required, install plastic armor stop (supplied uninstalled) per over conductors O.D. columns in the Selection Table. Armor stop is required for MC and TECK90 cables installations. Apply electrical tape to tip of conductors, and insert prepared cable into the connector until armor (or TC jacket) stops. Completely tighten the gland nut. Refer to the table for torque requirements. The TMC3 contains a compression limiting design which eliminates the risk of over-torque.
- Verify continuity between cable armor and enclosure.
- Product is not designed for re-installation after being removed.

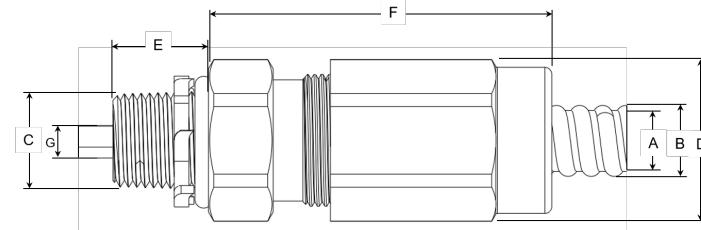


3. Verify continuity between cable armor and enclosure.

4. Product is not designed for re-installation after being removed.

TORQUE TABLE

Cat. #	Ordinary location	Hazardous location
	Torque in.-lb. (N-m)	Torque in.-lb. (N-m)
TMC3-050-0	300 (33)	800 (90)
TMC3-075-0		
TMC3-050-1	500 (56)	800 (90)
TMC3-075-1		



SELECTION TABLE

Entry thread (C)	NPT cat. #*	Over conductors O.D. max. inches (G)†	Armored cable				Un-armored cable				O.D. (B)	Across corners (D) inches	Thread length (E) inches	Length (F) inches		
			MC / MC-HL cables		TECK90 cables		Armor O.D. (A)		Cable O.D. (B)							
			With armor stop	Without armor stop	Armor O.D. (A)	Cable O.D. (B)	Armor O.D. (A)	Cable O.D. (B)	Min.	Max.	Min.	Max.	Min.	Max.		
1/2"	TMC3-050-0	0.350	0.560	0.452	0.660	0.550	0.780	0.512	0.670	0.610	0.780	0.500	0.660	1.38	0.75	2.55
1/2"	TMC3-050-1	0.350	0.560	0.579	0.872	0.670	1.000	0.581	0.880	0.670	1.000	0.640	0.860	1.63	0.75	2.60
3/4"	TMC3-075-0	0.510	0.560	0.452	0.660	0.550	0.780	0.512	0.670	0.610	0.780	0.500	0.660	1.63	0.78	2.55
3/4"	TMC3-075-1	0.510	0.796	0.579	0.872	0.670	1.000	0.581	0.880	0.670	1.000	0.640	0.860	1.63	0.78	2.60

†When making your cable gland selection based on cable O.D., be sure to also observe the over conductors O.D. dimension and the armor O.D.

‡For stainless steel, add suffix 'SS' and for nickel-plated brass, add suffix 'NP'.

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