

Motion Control

Thermo-Trex® High Temp VFD Cable

Thermo-Trex® High Temp VFD Cable is designed specifically for the harsh electrical environment of typical variable frequency drive systems that require higher heat exposure and can withstand a maximum conductor temperature of 200°C / 392°F. This power cable features three conductors with three symmetrical grounds, a braided shield, a temperature-resistant jacket that provides excellent protection against heat and mechanical abuse. The cable is constructed to withstand corona voltages up to 2,000 volts.



Ratings

600V

Max Conductor Temperature 200°C

AWM 758 Style 5587

CSA Std C22.2 No. 210 AWM Class I Group A/B 200°C

FT2 Flame Rating

Performance Characteristics

✓ Corona Resistant to 2000V

✓ Bend Radius (Dynamic): 6x Cable O.D.

✓ Bend Radius (Dynamic): 8x Cable O.D.

Engineered to Resist

High Temperature

Features & Benefits

Finely Stranded Nickel-Plated Copper Conductors

Fine stranding improves flex-life and reduces conductor fatigue and breakage. Nickel-plated conductors allow for high heat resistance.

Silicone Rubber & Fiberglass Yarn Insulation

Silicone rubber insulation covered by color-coded braided fiberglass yarn impregnated with a saturant to minimize fraying.

Symmetrical Grounding System

Three ground conductors placed symmetrically in the interstices of the power conductors with a spiral-wrapped skived PTFE tape to create a smooth round bundle and balance the cable electrically.

Heavy-Duty 90% Coverage Nickel-Plated Copper Braid Shield

Nickel-plated copper braid shield with flat drain wire and spiral-wrapped skived PTFE tape. Provides protection against EM and RF interference and a low impedance path to ground. Protects equipment and motor damage from electrical noise and "stray voltage".

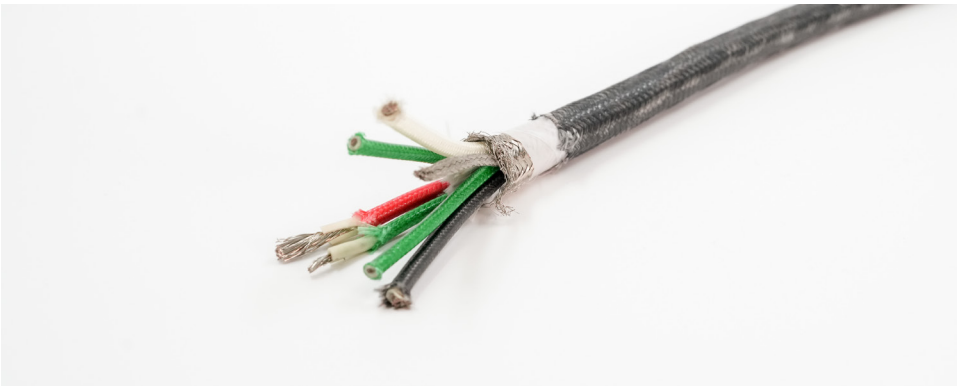
Specially Designed Fiberglass Braid Jacket

Braided fiberglass jacket impregnated with high-temp finishing compounds to prevent fraying. Provides first line defense against abrasion and high heat.

Ordering Information

For complete product ordering information, please scan the QR Code or contact your TPC sales representative

Part No.	Configuration AWG/Cond	Ground Conductor Size (AWG)	Ampacity*	Nominal O.D. (in)	W.T. (lbs) Per 1,000 ft.	Standard Cable Gland**
41279	16/3	3x20 AWG	29	0.344	124	55003
41280	14/3	3x18 AWG	40	0.495	178	55004
41281	12/3	3x16 AWG	55	0.540	225	55005
41282	10/3	3x14 AWG	74	0.630	316	55006
41283	8/3	3x12 AWG	102	0.805	506	55008



Notes

*Based on 40°C ambient 200°C conductor temperature per the IEEE Std. 835 Standard Power Cable Ampacity Table.

**Grip-Seals® Aluminum straight cable gland part number listed. Sizing based on nominal cable O.D. Due to process tolerances, a smaller/larger gland size may be required. Confirm NPT Fitting Size matches application.