

Motion Control

Trex-Onics® Low Capacitance VFD Shielded Power Cable

Trex-Onics® Low Capacitance VFD Shielded Power Cable is designed for superior performance. A heavy-duty tinned copper braid protects equipment and motors from damage caused by electrical noise and 'stray voltage'. It also provides a shield against electromagnetic and radio frequency interference and a low impedance path to ground. This power cable features finely stranded tinned copper conductors that extend conductor life in dynamic applications and are alpha-numerically marked for ease of identification. The oil-resistant insulation system offers high dielectric, tensile, and mechanical properties.



Ratings



600V (Type TC-ER)

1000V (CSA)

Max Conductor Temperature 90°C

Type TC-ER

FT4 Flame Rating

Suitable for Class I, II, Division 2***

Performance Characteristics

- ✓ Sunlight Resistant
- ✓ Oil Resistant
- ✓ Corona Resistant to 2000V
- ✓ Cold Bend: -20°C
- ✓ Bend Radius (Static): 6x Cable O.D.
- ✓ Bend Radius (Dynamic): 8x Cable O.D.

Engineered to Resist



Flexing



Abrasion



Chemicals

Features & Benefits

Finely Stranded Tinned Copper Conductors

Fine stranding improves flex-life and reduces conductor fatigue and breakage. Tinned conductors resist corrosion and are easier to solder.

XLPE Insulation System

High dielectric, tensile, and mechanical properties. Designed to support unique electrical requirements of VFD systems.

Low-Friction, Non-Wicking Fillers

Increase flexibility and flex-life in dynamic applications.

Heavy-Duty 95% Coverage Tinned Copper Braid Shield

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". Designed for superior performance in dynamic applications.

Specially Compounded Security Yellow TPE Jacket

Offers superior first-line defense against tearing, abrasion, impact, oil, ozone and most chemicals.

Ordering Information

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

Part No.	Configuration AWG/Cond	Ampacity*	Nominal O.D. (in)	W.T. (lbs) Per 1,000 ft.	Standard Cable Gland**
60040LC	16/4	18	0.563	181	55006
60041LC	14/4	25	0.588	210	55006
60042LC	12/4	30	0.656	276	55007
60043LC	10/4	40	0.710	350	55008
60044LC	8/4	55	0.926	580	55012
60045LC	6/4	75	0.986	735	55012
60046LC	4/4	95	1.107	1010	55012



Notes

*Ambient temperature of 30°C, conductor temperature of 90°C, not more than three current-carrying conductors. Based on NEC, Table 310.15(B)(16).

**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.

***When installed in accordance with NEC guidelines sections, 501.140, 502.140, 503.140.