Motion Control

Trex-Onics® Low Capacitance VFD Shielded Power Cable with Brake and Signal Pairs

Trex-Onics® Low Capacitance VFD Shielded Power Cable with Brake and Signal Pairs 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 RoHS compliant | Type TC-ER - 600V | 1000V (CSA) | Max Conductor Temperature 90°C | Cold Temperature Rating -20°C | Type TC-ER | FT4 Flame Rating | Suitable for Class I, II, Division 2***

Performance Characteristics ✓ Sunlight Resistant ✓ Oil Resistant ✓ Corona Resistant to 2000V ✓ 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.

Shielded Brake and Signal Pair
Aluminum/Mylar shielding for maximum flex-life and signal integrity.

Ordering Information

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

Part No.	Configuration AWG/Cond	Brake & Signal Pairs	Ampacity*	Nominal O.D. (in)	W.T. (lbs) Per 1,000 ft.	Standard Cable Gland**
Single Pair Part Numbers						
60021LC	14/4	16/1	25	0.660	272	55006
60023LC	12/4	16/1	30	0.708	336	55008
60025LC	10/4	16/1	40	0.770	423	55008
60026LC	8/4	16/1	55	0.960	625	55012
60027LC	6/4	16/1	75	1.055	790	55012
Two Pair Part Numbers						
60028LC	14/4	16/2	25	0.723	332	55008
60029LC	12/4	16/2	30	0.764	392	55008
60030LC	10/4	16/2	40	0.825	470	55009
60031LC	8/4	16/2	55	1.020	679	55012
60032LC	6/4	16/2	75	1.105	842	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.*