

Motion Control

Trex-Onics® HighFlex Encoder Cable

Trex-Onics® High-Flex Encoder Cable is built to withstand the harsh industrial environments in which many motors operate. This single-cable solution combines power conductors with signal pairs as well as the data element of dedicated encoder cables. The combination of multiple roles into a single-cable solution greatly simplifies inventory management, installation, and maintenance. This composite cable features finely stranded tinned copper conductors that extend conductor life in dynamic applications. The oil-resistant insulation system offers high dielectric, tensile, and mechanical properties.



Ratings



300V

Max Conductor Temperature 90°C

Cold Temperature Rating -40°C

AWM Style 21743

VW-1 Flame Rating

Performance Characteristics

✓ Bend Radius (Static): 6x Cable O.D. ✓ Bend Radius (Dynamic): 8x Cable O.D. ✓ MIL-STD-810G Antimicrobial

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.

Specially Compounded TPE Insulation

Resists effects of lubricating oils, coolants, cutting oils, acids, and most chemicals.

Low-Friction, Non-Wicking Fillers

Increase flexibility and flex-life in dynamic applications.

Signal Pair Shielding

Aluminum/polyester shield for maximum flex-life and signal integrity.

Data Pair Shielding

Low capacitance and aluminum/polyester shield for maximum flex-life and signal integrity.

Heavy-Duty 85% 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.

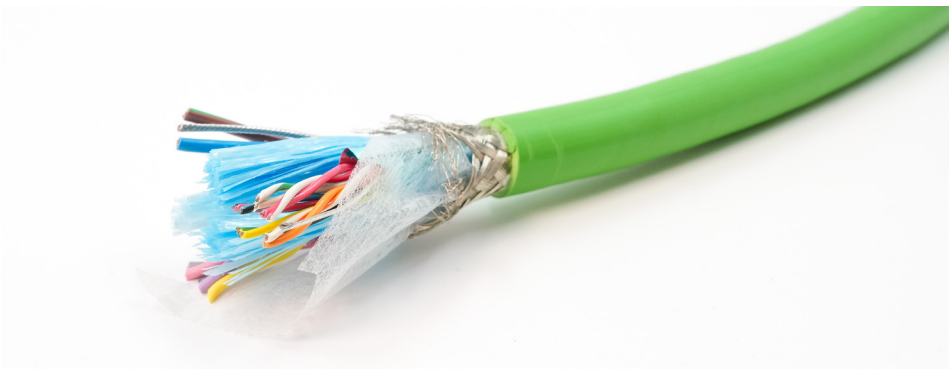
Specially Compounded TPU Jacket

Offers superior first-line defense against tearing, abrasion, impact, oil, ozone, UV exposure, and most chemicals. Flame and heat resistant. Extreme all-weather flexibility.

Ordering Information

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

Part No.	Configuration AWG/Cond	Nominal O.D. (in)	W.T. (lbs) Per 1,000 ft.	Standard Cable Gland*
68916	16/1PR OSP + 24/2PR OSP + 22/5PR OSP	0.535	145	55005



Notes

*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.