

Control/Instrumentation

Trex-Onics® Individually Shielded Multi-Pair Control Cables

Trex-Onics® Individually Shielded Multi-Pair Control Cable is designed for industrial cat tracks, reeling, drop pendants, and robotics and shows superior resistance against abrasion, tearing, oil, UV, and most chemicals. This control and instrumentation cable features Ultra-Shield construction, which includes a heavy-duty combination of tinned copper braid, foil shield, and tinned drain wire providing 100% protection from electromagnetic and radio frequency interference. This cable has individually twisted and shielded pairs with TPE insulation and overcoat and a heavy-duty security yellow polyurethane jacket.



Ratings



600V

Max Conductor Temperature 105°C

Cold Temp Rating -40°C

AWM Style 20952

FT1 Flame Rating

WW-1 Flame Rating

Performance Characteristics

✓ 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.

Specially Compounded TPE Insulation

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

Twisted Individually Shielded Pairs Protected with Specially Compounded TPE Overcoat

Unique extruded TPE overcoat design helps maintain shield integrity on individual pairs in flexing applications.

Ultra-Shield Tinned Copper Braid Shield Plus Aluminum/Polyester Foil Shield Construction

Provides 100% 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 Compounded Security Yellow 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	Ampacity*	Nominal O.D. (in)	W.T. (lbs) Per 1,000 ft.	Standard Cable Gland**
68201	16/1 PR	18	0.285	65	55003
68202	16/2 PR	14.4	0.465	136	55004
68203	16/3 PR	14.4	0.490	158	55004
68204	16/4 PR	12.6	0.545	196	55006
68302	18/2 PR	11.2	0.440	110	55004
68303	18/3 PR	11.2	0.490	142	55004
68304	18/4 PR	9.8	0.540	163	55006
68306	18/6 PR	7	0.650	245	55007
68309	18/9 PR	7	0.790	320	55008
68312	18/12 PR	6.3	0.840	405	55009
68403	24/3 PR	6.4	0.360	80	55003
68404	24/4 PR	5.6	0.390	86	55004
68406	24/6 PR	4	0.470	126	55004
68412	24/12 PR	3.6	0.600	215	55006
68502	20/2 PR	8	0.410	74	55004
68503	20/3 PR	8	0.430	92	55004
68504	20/4 PR	7	0.480	118	55004
68506	20/6 PR	5	0.570	161	55006
68509	20/9 PR	5	0.720	247	55008
68512	20/12 PR	4.5	0.730	264	55008
68518	20/18 PR	4	0.850	540	55009
68409	24/9 PR	4	0.570	160	55006



Notes

*Ampacities are based on 30°C ambient and 90°C conductor temperature. These values are to be used as a guideline and may vary according to the actual cable application.

**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.