Control/Instrumentation

Trex-Onics®
Reduced Diameter Control Cable

Trex-Onics® Reduced Diameter Control Cable is a multi-conductor unshielded control cable designed for industrial applications that require continuous flexing.

This control and instrumentation cable features a high strand count, TPE insulation, and a security yellow TPE jacket that provides excellent protection against abrasion, tearing, oil, and most chemicals.

Ratings RoHS compliant | 600V | 1000V (Type WTTC for 12 – 18 AWG Only) | Max Conductor Temperature 90°C | Type TC-ER (12 – 18 AWG Only) | Type WTTC (12 – 18 AWG Only) | FT-4 Flame Rating | Suitable for Class I, II, Div 2***

Performance Characteristics ✓ Oil Resistant II ✓ UV Resistant ✓ Bend Radius (Static): 6x Cable O.D. ✓ Bend Radius (Dynamic): 8x Cable O.D.

Engineered to Resist Flexing | Abrasion

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.

Reverse Lay of Alternating Bundles
Increases flexibility and relieves bending and twisting stress.

High Flex Tape Separator
Improves performance in continuous flexing applications. Allows the conductors to move freely within the jacket reducing conductor failure.

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**
6271208	12/8	21	0.637	299	55007
6271212	12/12	15	0.695	386	55008
6271222	12/22	13	0.933	709	55012
6271607	16/7	12	0.432	123	55004
6271612	16/12	9	0.508	182	55006
6271616	16/16	9	0.558	230	55006
6271622	16/22	8	0.650	313	55007
6271625	16/25	8	0.708	369	55008
6271631	16/31	7	0.745	419	55008
6271633	16/33	7	0.745	433	55008
6271641	16/41	6	0.867	570	55012
6271649	16/49	6	0.934	661	55012
6271660	16/60	6	0.989	779	55012
6271665	16/65	6	1.056	868	55012
6271805	18/5	11	0.321	63	55003
6271812	18/12	7	0.439	127	55004
6271819	18/19	7	0.546	197	55006
6271825	18/25	6	0.621	261	55006
6271833	18/33	5	0.649	301	55007
6271847	18/47	4	0.765	419	55008
6271849	18/49	4	0.785	442	55008
6271865	18/65	4	0.924	608	55012
6272005	20/5	9	0.275	44	55003
6272012	20/12	8	0.364	84	55003
6272019	20/19	6	0.453	130	55004
6272025	20/25	6	0.508	169	55006
6272033	20/33	4	0.541	200	55006
6272047	20/47	4	0.644	280	55007
6272065	20/65	4	0.744	385	55008

Available for special order in all red, all blue, or all black conductors. MOQ may apply.

Notes

*Based on an ambient temperature of 30°C and conductor temperature of 90°C per NEC, Table 3.10.15(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.