

Reduced Diameter Instrumentation Cable (POS)

multipair XLPE insulated conductors with overall shield / 18 & 16 AWG
LSZH TPO or XLPO jacket / 600 volt



Applications

These are multiple pair instrumentation tray cables constructed with a reduced diameter. Crosslinked polyethylene (XLPE) insulation and either a thermoplastic polyolefin (TPO) or a crosslinked polyolefin (XLPO) jacket are used to meet UL 1685 for limited smoke. An overall aluminum/mylar tape shield and drain wire helps reduce electromagnetic interference. It is suitable for both tray and aerial installations. These cables meet UL 1685 for a UL "LS" (limited smoke) designation.

Ratings

- UL Standard 44, 1277 and 1685
- ICEA S-73-532 (NEMA WC 57)
- IEEE 383

Construction

CONDUCTOR: Class B (7 strand), soft drawn, bare or tinned copper per ASTM B3, ASTM B8 and ASTM B33.

INSULATION: Reduced thickness crosslinked polyethylene (XLPE) that meets ICEA S-73-532 (NEMA WC 57) and UL 44 acceptable for 90°C wet and dry locations. Completely non-halogen constructions that can withstand 75°C wet/90°C dry environments are available upon request.

CIRCUIT IDENTIFICATION: One black and one red insulated single conductor in each pair with printed pair numbers.

PAIR ASSEMBLY: Two insulated conductors twisted together.

CABLING: Required number of pairs are cabled with non-hygroscopic fillers where necessary to form a round compact core.

OVERALL: Shield/Drain Wire
Helically applied aluminum foil/mylar tape. The drain is a Class K stranded soft-drawn tinned copper per ASTM B 33 and ASTM B174. The shield is wrapped with an optional layer of polyester tape

JACKET: Reduced wall thickness, sunlight-resistant, flame-retardant, low smoke and zero-halogen black TPO or thermoset XLPO that meets UL 1277.

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Part Number	Conductor Number	Conductor Size/Stranding	Drain Size/Stranding	Average Insulation Thickness in (cm)	Average Jacket Thickness in (mm)	Minimum Bend Radius in (mm)	Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
518-02	2	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.030 (.76)	4.8 (122.0)	0.395 (10.0)	66 (98)
518-03	3	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.030 (.76)	5.1 (129.6)	0.420 (10.7)	86 (128)
518-04	4	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.030 (.76)	5.6 (142.3)	0.460 (11.7)	107 (159)
18-05	5	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.045 (1.1)	6.5 (165.1)	0.540 (13.7)	147 (219)
518-07	7	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.045 (1.1)	7.1 (180.3)	0.590 (15.0)	188 (280)
518-09	9	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.045 (1.1)	8.3 (210.9)	0.690 (17.5)	211 (314)
518-12	12	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.045 (1.1)	9.4 (238.8)	0.780 (19.8)	300 (446)
518-15	15	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.065 (1.7)	11.0 (279.4)	0.915 (23.4)	390 (580)
518-19	19	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.065 (1.7)	11.6 (294.7)	0.965 (24.5)	445 (662)
518-27	27	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.065 (1.7)	13.8 (350.5)	1.150 (29.2)	602 (896)
518-37	37	18 AWG / 7x0.0152	18 AWG / 16x0.010	.020 (.51)	.065 (1.7)	15.5 (393.7)	1.285 (32.6)	866 (1290)
516-02	2	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.030 (.76)	5.2 (132.1)	0.430 (10.9)	85 (127)
516-03	3	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.030 (.76)	5.6 (142.3)	0.460 (11.7)	112 (167)
516-04	4	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.045 (1.1)	6.5 (165.1)	0.540 (13.7)	158 (235)
516-05	5	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.045 (1.1)	7.1 (180.3)	0.590 (15.0)	189 (282)
516-07	7	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.045 (1.1)	7.8 (198.2)	0.645 (16.4)	244 (364)
516-09	9	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.045 (1.1)	9.2 (233.7)	0.765 (19.4)	276 (411)
516-12	12	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.065 (1.7)	10.9 (276.9)	0.905 (23.0)	388 (577)
516-15	15	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.065 (1.7)	12.1 (307.4)	1.005 (25.5)	489 (727)
516-19	19	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.065 (1.7)	12.8 (325.1)	1.060 (26.9)	585 (870)
516-27	27	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.065 (1.7)	15.4 (391.2)	1.280 (32.5)	790 (1175)
516-37	37	16 AWG / 7x0.0192	16 AWG / 30x0.010	.020 (.51)	.065 (1.7)	17.2 (436.9)	1.430 (36.3)	1149 (1712)

The data herein is approximate and subject to normal manufacturing tolerances.

Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

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