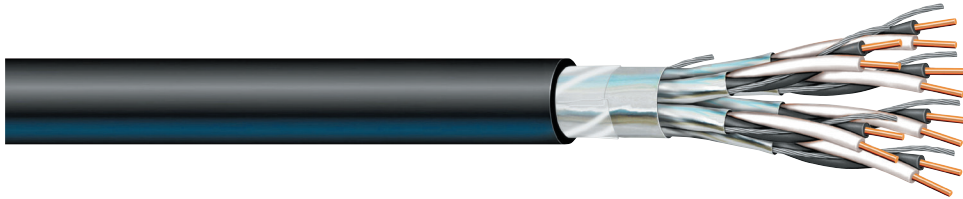


EnergySafe™ XS Instrumentation Cable (PS)

multipair with pair shield / reduced diameter / LSZH / 18 & 16 AWG / 600 volt



Applications

EnergySafe™ XS reduced diameter Low Smoke Zero Halogen (LSZH) cable is used for utility, power generation and industrial applications where safety of personnel and equipment is required. EnergySafe™ cable is available for instrumentation applications for installation indoors or outdoors, in conduits, ducts, cable trays, aerially and direct burial up to 600 volts.

EnergySafe™ XS is engineered with reduced insulation and jacket thicknesses to create a smaller cable perfect for use in crowded raceways.

EnergySafe™ cable is NEC-compliant for continuous operation at 90°C in wet and dry locations, 130°C for emergency overload conditions and 250°C for short

Specifications and Ratings

- UL Standard 1581 70,000 BTU/hr
- IEEE 1202 70,000 BTU/hr and/or 210,000 BTU/hr vertical tray flame tests (as detailed in ICEA T-29-520 and T-30-520)

Can be manufactured to meet:

- NEC Type TC per article 336, 392 and 501.4 (b) and Class 1 circuits per NEC article 725
- UL Sunlight Resistant
- Approved for direct burial
- LS Rated in accordance with UL 1685
- NEC Class I and II, Division 2 Hazardous Locations
- ICEA S-73-532 (NEMA WC-57)
- VW-1 rated insulated conductors in accordance with UL 44

Design Parameters

CONDUCTORS: Bare or tinned annealed copper per ASTM B3 or B33, Class B concentrically stranded per ASTM B8.

INSULATION: Heat and moisture resistant crosslinked polyethylene (XLPE) in accordance with ICEA S-73-532 suitable for continuous use at 90°C wet and dry. VW-1 rated conductors in accordance with UL 44 are available

NOTE: VW-1 rated conductors may contain trace amounts of halogens).

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

PAIR ASSEMBLY: Two insulated conductors twisted with a Class K stranded tinned copper drain wire per ASTM B33 & B174 and wrapped with a helically-applied aluminum foil/mylar shield and an isolation tape.

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

SHIELD OPTIONS: Aluminum/mylar tape (with or without a drain wire)

- Corrugated longitudinally-applied .005 or .010 copper
- Flat helically-applied .005 or .010 copper
- Longitudinally-applied copper or aluminum copolymer-bonded shield
- Copper braid (specify percentage of coverage for optimum EMI protection)

OVERALL JACKET: Sunlight, abrasion, oil and chemical resistant low smoke zero halogen jacket in accordance with ICEA S-73-532.

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Part Number	Pair Number	Conductor Size/Stranding	Drain Size/Stranding	Insulation Thickness in (mm)	Average Jacket Thickness in (mm)	Minimum Bend Radius in (mm)	Cable Outside Diameter in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
318-02	2	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.030 (.76)	5.0 (127.0)	0.410 (10.4)	75 (112)
318-03	3	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.030 (.76)	5.3 (134.7)	0.435 (11.0)	100 (149)
318-04	4	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.030 (.76)	5.8 (147.3)	0.480 (12.2)	126 (188)
318-05	5	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.045 (1.1)	6.8 (172.8)	0.560 (14.2)	172 (256)
318-07	7	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.045 (1.1)	7.4 (188.0)	0.610 (15.5)	224 (334)
318-09	9	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.045 (1.1)	8.4 (213.4)	0.700 (17.8)	253 (377)
318-12	12	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.045 (1.1)	9.5 (241.3)	0.790 (20.1)	318 (473)
318-15	15	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.065 (1.7)	11.1 (282.0)	0.925 (23.5)	426 (634)
318-19	19	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.065 (1.7)	11.7 (297.2)	0.970 (24.6)	510 (759)
318-27	27	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.065 (1.7)	14.0 (355.6)	1.165 (29.6)	700 (1042)
318-37	37	18 AWG / 7x0.0152	20 AWG / 10x0.010	.020 (.51)	.065 (1.7)	15.6 (396.3)	1.300 (33.0)	1000 (1488)
316-02	2	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.030 (.76)	5.4 (137.1)	0.450 (11.4)	96 (143)
316-03	3	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.030 (.76)	5.8 (147.3)	0.480 (12.2)	130 (194)
316-04	4	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.045 (1.1)	6.8 (172.8)	0.560 (14.2)	185 (276)
316-05	5	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.045 (1.1)	7.4 (188.0)	0.615 (15.6)	223 (332)
316-07	7	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.045 (1.1)	8.1 (205.8)	0.670 (17.0)	294 (438)
316-09	9	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.045 (1.1)	9.3 (236.3)	0.775 (18.5)	332 (495)
316-12	12	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.065 (1.7)	11.1 (282.0)	0.920 (20.1)	495 (737)
316-15	15	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.065 (1.7)	12.3 (312.5)	1.020 (23.7)	600 (893)
316-19	19	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.065 (1.7)	12.9 (327.7)	1.075 (26.4)	728 (1083)
316-27	27	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.065 (1.7)	15.6 (396.3)	1.295 (27.8)	1002 (1491)
316-37	37	16 AWG / 7x0.0192	18 AWG / 16x0.010	.020 (.51)	.065 (1.7)	17.4 (442.0)	1.450 (37.6)	1300 (1980)

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.

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