

EnergySafe™ XS Instrumentation Cable (POS)

multipair / 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 together.

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.

Prysmian Group

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| Part Number | Conductor 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) |
|-------------|------------------|--------------------------|----------------------|------------------------------|----------------------------------|-----------------------------|--------------------------------|--|
| 518-02 | 2 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 4.7 (119.4) | 0.395 (10.0) | 66 (98) |
| 518-03 | 3 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 5.0 (127.0) | 0.420 (10.7) | 86 (128) |
| 518-04 | 4 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 5.5 (139.7) | 0.460 (11.7) | 107 (159) |
| 518-05 | 5 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .045 (1.1) | 6.5 (165.1) | 0.540 (13.7) | 147 (219) |
| 518-07 | 7 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .045 (1.1) | 7.1 (180.3) | 0.590 (15.0) | 188 (280) |
| 518-09 | 9 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .045 (1.1) | 7.6 (193.0) | 0.635 (16.1) | 211 (314) |
| 518-12 | 12 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .045 (1.1) | 8.3 (210.8) | 0.690 (17.5) | 235 (350) |
| 518-15 | 15 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .045 (1.1) | 9.4 (238.8) | 0.780 (19.8) | 303 (451) |
| 518-19 | 19 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .065 (1.7) | 10.9 (276.9) | 0.910 (23.1) | 409 (609) |
| 518-27 | 27 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .065 (1.7) | 11.5 (292.1) | 0.960 (24.4) | 489 (729) |
| 518-37 | 37 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .065 (1.7) | 15.4 (391.2) | 1.285 (32.6) | 866 (1290) |
| 516-02 | 2 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .030 (.76) | 5.2 (132.1) | 0.430 (10.9) | 85(127) |
| 516-03 | 3 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .030 (.76) | 5.5 (139.7) | 0.460 (11.7) | 112(167) |
| 516-04 | 4 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .045 (1.1) | 6.5 (165.1) | 0.540 (13.7) | 158 (235) |
| 516-05 | 5 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .045 (1.1) | 7.1 (180.3) | 0.590 (15.0) | 189 (282) |
| 516-07 | 7 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .045 (1.1) | 7.7 (195.6) | 0.645 (16.4) | 244 (364) |
| 516-09 | 9 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .045 (1.1) | 8.4 (213.4) | 0.700 (17.8) | 276 (411) |
| 516-12 | 12 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .045 (1.1) | 9.1 (231.1) | 0.755 (19.2) | 307 (457) |
| 516-15 | 15 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .065 (1.7) | 10.7 (271.8) | 0.880 (22.4) | 439 (654) |
| 516-19 | 19 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .065 (1.7) | 12.0 (304.8) | 1.000 (25.4) | 530 (790) |
| 516-27 | 27 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .065 (1.7) | 12.6 (320.0) | 1.050 (26.7) | 639 (952) |
| 516-37 | 37 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .065 (1.7) | 17.0 (431.8) | 1.415 (35.9) | 1149 (1712) |

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

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