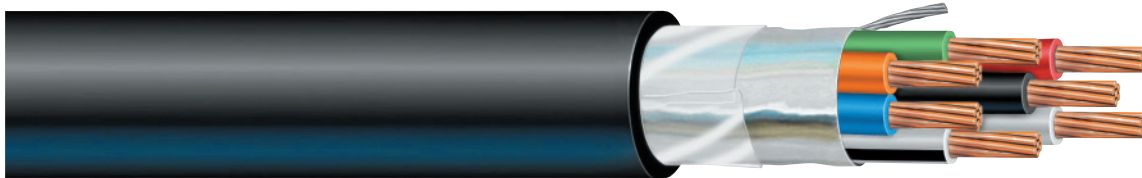


EnergySafe™ XS Instrumentation Cable (OS)

multiconductor / reduced diameter / overall shield / 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 circuit conditions.

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: Insulation coded in accordance with NEMA WC-57 (E1 or E2).

ASSEMBLY: Individual conductors are cabled with non-hygroscopic fillers where necessary to form a round compact core and wrapped with a binder. Two-conductor constructions can be assembled flat or round.

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

700 Industrial Drive | Lexington, SC 29072 | +1-800-845-8507 | www.prysmiangroup.com

Sales and Distribution:

22 Joseph E. Warner Blvd. | North Dighton, MA 02764 | +1-508-822-5444 | www.drakausa.com
One Tamaqua Blvd. | Schuylkill Haven PA 17972 | Tel +1-570-385-4381

EnergySafe™ XS Instrumentation Cable (OS)

multiconductor / reduced diameter / overall shield / 18 & 16 AWG / 600 volt

| 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) |
|-------------|------------------|--------------------------|----------------------|------------------------------|----------------------------------|-----------------------------|--------------------------------|--|
| 118-02 | 2 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 3.20 (81.3) | 0.260 (6.6) | 38 (56) |
| 118-03 | 3 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 3.30 (83.8) | 0.275 (7.0) | 48 (71) |
| 118-04 | 4 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 3.60 (91.4) | 0.300 (7.6) | 58 (86) |
| 118-05 | 5 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 4.00 (101.6) | 0.325 (8.3) | 69 (102) |
| 118-07 | 7 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 4.26 (108.3) | 0.355 (9.0) | 89 (132) |
| 118-09 | 9 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 5.00 (127.0) | 0.415 (10.5) | 111 (164) |
| 118-12 | 12 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .030 (.76) | 5.65 (143.6) | 0.470 (11.9) | 144 (213) |
| 118-15 | 15 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .045 (1.1) | 6.60 (152.4) | 0.550 (14.0) | 193 (286) |
| 118-19 | 19 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .045 (1.1) | 7.00 (177.8) | 0.580 (14.7) | 232 (343) |
| 118-27 | 27 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .045 (1.1) | 8.30 (210.9) | 0.690 (17.6) | 315 (466) |
| 118-37 | 37 | 18 AWG / 7x0.0152 | 20 AWG / 10x0.010 | .020 (.51) | .045 (1.1) | 9.30 (236.3) | 0.770 (19.6) | 413 (611) |
| 116-02 | 2 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .030 (.76) | 3.50 (88.9) | 0.285 (7.2) | 48 (71) |
| 116-03 | 3 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .030 (.76) | 3.60 (91.4) | 0.300 (7.6) | 62 (92) |
| 116-04 | 4 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .030 (.76) | 3.90 (99.1) | 0.325 (8.3) | 76 (112) |
| 116-05 | 5 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .030 (.76) | 4.40 (111.8) | 0.360 (9.1) | 90 (133) |
| 116-07 | 7 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .030 (.76) | 4.70 (119.4) | 0.390 (9.9) | 117 (173) |
| 116-09 | 9 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .030 (.76) | 5.50 (139.7) | 0.455 (11.6) | 147 (218) |
| 116-12 | 12 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .045 (1.1) | 6.60 (167.7) | 0.545 (13.8) | 208 (308) |
| 116-15 | 15 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .045 (1.1) | 7.30 (185.4) | 0.605 (15.4) | 253 (374) |
| 116-19 | 19 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .045 (1.1) | 7.70 (195.6) | 0.635 (16.1) | 305 (451) |
| 116-27 | 27 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .045 (1.1) | 9.20 (233.7) | 0.760 (19.3) | 418 (619) |
| 116-37 | 37 | 16 AWG / 7x0.0192 | 18 AWG / 16x0.010 | .020 (.51) | .065 (1.7) | 10.80 (274.4) | 0.895 (22.7) | 592 (876) |

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

© DRAKA - A Brand of The Prysmian Group. 2012 All Rights Reserved. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed correct at the time of issue. Prysmian Group reserves the right to amend any specifications without notice. These specifications are not contractually valid unless authorized by Prysmian Group. Issued June 2012.

Prysmian Group

700 Industrial Drive | Lexington, SC 29072 | +1-800-845-8507 | www.prysmiangroup.com

Sales and Distribution:

22 Joseph E. Warner Blvd. | North Dighton, MA 02764 | +1-508-822-5444 | www.drakausa.com

One Tamaqua Blvd. | Schuylkill Haven PA 17972 | Tel +1-570-385-4381