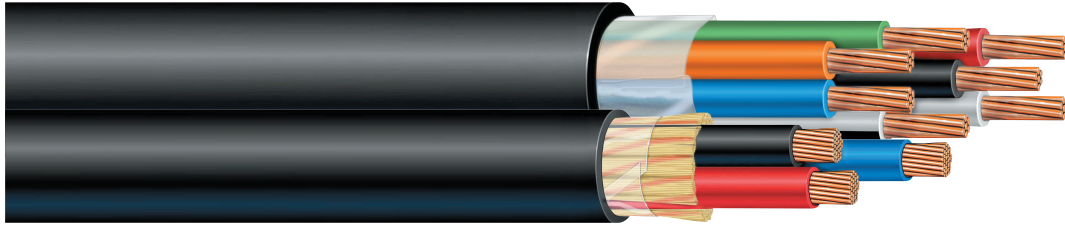


EnergySafe™ Power & Control Cable

multiconductor LSZH constructions / 14 AWG to 500 KCMIL / 600 volt



Applications

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

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 These Ratings

- 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
- 2000 volt rating

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: Corrugated longitudinally-applied .005 or .010 copper; Flat helically-applied .005 or .010 copper; Aluminum/mylar tape (with or without a drain wire) Longitudinally-applied copper or aluminum copolymer-bonded shield; Copper braid (specify percentage of coverage for optimum EMI protection)

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	Number/Size of Conductors	Number of Strands	Ground Size AWG	Insulation Thickness in (mm)	Average Jacket Thickness in (mm)	Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
FLS-0214	2 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.385 (9.78)	77 (115)
FLS-0314	3 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.400 (10.2)	89 (132)
FLS-0414	4 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.445 (11.3)	123 (183)
FLS-0514	5 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.485 (12.3)	135 (201)
FLS-0714	7 / 14 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.525 (13.3)	190 (283)
FLS-0914	9 / 14 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.650 (16.5)	263 (391)
FLS-1214	12 / 14 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.720 (18.3)	337 (501)
FLS-1914	19 / 14 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.840 (21.3)	495 (737)
FLS-0212	2 / 12 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.420 (10.7)	99 (147)
FLS-0312	3 / 12 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.445 (11.3)	130 (193)
FLS-0412	4 / 12 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.490 (12.4)	164 (244)
FLS-0512	5 / 12 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.535 (13.6)	185 (275)
FLS-0712	7 / 12 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.615 (15.6)	260 (387)
FLS-0912	9 / 12 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.710 (18.0)	350 (521)
FLS-1212	12 / 12 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.800 (20.3)	425 (632)
FLS-0210	2 / 10 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.470 (11.9)	132 (196)
FLS-0310	3 / 10 AWG	7	-	0.030 (0.76)	0.045 (1.54)	0.500 (12.7)	179 (266)
FLS-0410	4 / 10 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.580 (14.7)	247 (368)
FLS-0510	5 / 10 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.635 (16.1)	279 (415)
FLS-0710	7 / 10 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.690 (17.5)	368 (548)
FLS-0910	9 / 10 AWG	7	-	0.030 (0.76)	0.060 (1.52)	0.805 (20.4)	521 (775)
FLS-1210	12 / 10 AWG	7	-	0.030 (0.76)	0.080 (2.03)	0.945 (24.0)	642 (955)
FLS-1910	19 / 10 AWG	7	-	0.030 (0.76)	0.080 (2.03)	1.105 (28.1)	946 (1408)
FLS-0308	3 / 8 AWG	7	10 AWG	0.045 (1.54)	0.060 (1.52)	0.650 (16.5)	321 (478)
FLS-0306	3 / 6 AWG	7	8 AWG	0.045 (1.54)	0.060 (1.52)	0.735 (18.7)	460 (684)
FLS-0304	3 / 4 AWG	7	8 AWG	0.045 (1.54)	0.080 (2.03)	0.910 (23.1)	671 (998)
FLS-0302	3 / 2 AWG	7	6 AWG	0.045 (1.54)	0.080 (2.03)	1.050 (26.7)	991 (1475)
FLS-0301	3 / 1/0 AWG	19	6 AWG	0.055 (1.40)	0.080 (2.03)	1.240 (31.5)	1470 (2187)
FLS-0302	3 / 2/0 AWG	19	6 AWG	0.055 (1.40)	0.080 (2.03)	1.340 (34.0)	1789 (2662)
FLS-0304	3 / 4/0 AWG	19	4 AWG	0.055 (1.40)	0.080 (2.03)	1.580 (40.1)	2676 (3982)
FLS-0325	3 / 250 KCMIL	37	4 AWG	0.065 (1.65)	0.110 (2.79)	1.840 (46.7)	3227 (4802)
FLS-0335	3 / 350 KCMIL	37	3 AWG	0.065 (1.65)	0.110 (2.79)	2.030 (51.6)	4320 (6428)
FLS-0350	3 / 500 KCMIL	37	2 AWG	0.065 (1.65)	0.110 (2.79)	2.320 (58.9)	6003 (8932)

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.