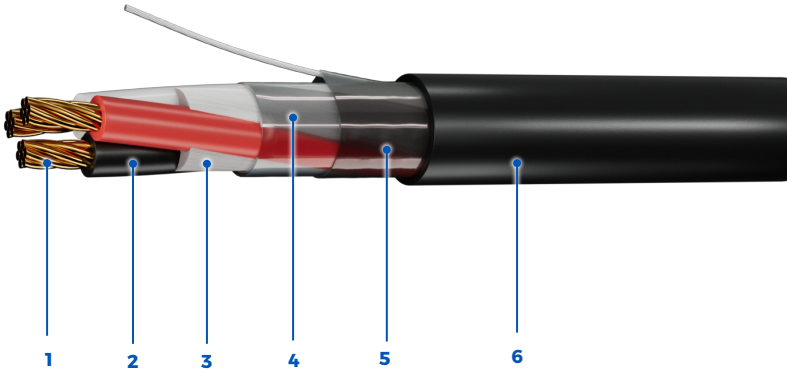
SF-XL 150/250 V Unarmoured Multi-Conductor (LSZH), XLPE/SHF1

SF-XL 150/250 V unarmoured multicore cables are suitable for use in offshore oil and gas, shipboard and marine applications. Our cables are made to IEC specifications and can be modified to fit your specific requirements.



1 – Stranded Bare or Tinned Class 2 or Class 5 Copper Conductors

2 – XLPE Insulated Conductors

3 – Polypropylene Fillers

4 – Fiberglass Tape

5 – Overall Aluminum/Mylar Shield with Tinned Copper Drain Wire

6 – Protective LSZH Outer Sheath

Standards:

RoHS · ABS Type Approved Product · LR · Transport Canada

Operating Temperature

-40˚C to +90˚C

Product Construction

Conductor:

- Stranded bare or tinned copper class 5 (standard) or class 2 (optional)

Insulation:

- XLPE Rated: +90°C Wet/Dry, IEC 60092-360

Shielding:

- Aluminum/mylar foil shield with tinned copper drain wire (standard)

Jacket:

- FR LSZH Thermoplastic, IEC 60092-360 (SHF1)

Available in:

- Custom insulation/jacket colours

Certification/ Compliances

Construction & Materials:

- IEC 60092-376
- IEC 60092-350
- IEC 60092-360 (Insulation & Sheath)
- IEC 60228 (Conductor)

Performance:

- IEC 60332-3-22, Cat. A (Flame Retardancy)
- IEC 60754-1 & 2, IEC 60684-2 (Halogen Free)
- IEC 61034-1 & 2 (Low Smoke Emission)
- Cold Bend & Impact (-40°C/-35°C)

Approvals:

- American Bureau of Shipping (ABS)
- Lloyd's Register
- Transport Canada

150/250 V

Voltage

Colour Coding

Custom colour coding available, inc.

- Per IEEE 1580 Table 23:

2C - Black, White

3C - Black, White, Red

4C - Black, White Red, Green

5C - Black, White, Red, Green, Orange

6C - Black, White, Red, Green, Orange, Blue

≥7C - Base color with tracers

Control and Instrumentation

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NUMBER OF CONDUCTORS	X	SIZE OF CONDUCTORS	NOMINAL OD OVERALL CABLE	CABLE WEIGHT	AMPACITY	SHAWFLEX PART NUMBER
(c)		*(mm^2)*	*(in/mm)*	*(lbs/1000ft) / (kg/km)*	*(45°C ambient)*	
2c	x	0.5	0.2 / 6.1	39.16 / 58.27	14	SF011E1A02F0800
2c	x	1	0.3 / 7.2	53 / 78.87	16	SF011E0102F0800
2c	x	1.5	0.3 / 8.8	75.78 / 112.77	20	SF011E3A02F0800
2c	x	2.5	0.4 / 9.7	94.14 / 140.09	26	SF011E5A02F0800
3c	x	0.5	0.3 / 6.4	44.9 / 66.81	9	SF011E1A03F0800
3c	x	1	0.3 / 7.6	60.18 / 89.55	12	SF011E0103F0800
3c	x	1.5	0.4 / 9.2	88.71 / 132.01	16	SF011E3A03F0800
3c	x	2.5	0.4 / 10.2	112.98 / 168.13	21	SF011E5A03F0800
4c	x	0.5	0.3 / 6.9	51.56 / 76.73	9	SF011E1A04F0800
4c	x	1	0.3 / 8.5	75.11 / 111.77	12	SF011E0104F0800
4c	x	1.5	0.4 / 10	101.15 / 150.53	16	SF011E3A04F0800
4c	x	2.5	0.4 / 11	136.68 / 203.4	21	SF011E5A04F0800
5c	x	0.5	0.3 / 7.6	61.82 / 92	7.2	SF011E1A05F0800
5c	x	1	0.4 / 9.4	91.1 / 135.57	9.6	SF011E0105F0800
5c	x	1.5	0.4 / 10.8	118.25 / 175.97	12.8	SF011E3A05F0800
5c	x	2.5	0.5 / 12.2	163.03 / 242.61	16.8	SF011E5A05F0800
7c	x	0.5	0.3 / 8.4	77.83 / 115.83	6.3	SF011E1A07F0800
7c	x	1	0.4 / 10.1	109.18 / 162.48	8.4	SF011E0107F0800
7c	x	1.5	0.5 / 11.9	151.27 / 225.12	11.2	SF011E3A07F0800
7c	x	2.5	0.5 / 13.2	204.34 / 304.09	14.7	SF011E5A07F0800
10c	x	0.5	0.4 / 10.2	100.29 / 149.25	6.3	SF011E1A10F0800
10c	x	1	0.5 / 12.7	153.7 / 228.73	8.4	SF011E0110F0800
10c	x	1.5	0.6 / 14.7	208.14 / 309.74	11.2	SF011E3A10F0800
10c	x	2.5	0.7 / 16.7	292.87 / 435.84	14.7	SF011E5A10F0800
12c	x	0.5	0.4 / 10.5	110.85 / 164.97	6.3	SF011E1A12F0800
12c	x	1	0.5 / 13.1	169.16 / 251.74	8.4	SF011E0112F0800
12c	x	1.5	0.6 / 15.4	241.16 / 358.89	11.2	SF011E3A12F0800
12c	x	2.5	0.7 / 17.2	330.38 / 491.67	14.7	SF011E5A12F0800
14c	x	0.5	0.4 / 10.9	122.58 / 182.41	6.3	SF011E1A14F0800
14c	x	1	0.5 / 13.7	188.39 / 280.35	8.4	SF011E0114F0800
14c	x	1.5	0.6 / 16.2	266.31 / 396.31	11.2	SF011E3A14F0800
14c	x	2.5	0.7 / 18.1	373.36 / 555.62	14.7	SF011E5A14F0800
19c	x	0.5	0.5 / 12.2	157.37 / 234.19	6.3	SF011E1A19F0800
19c	x	1	0.6 / 15.3	243.63 / 362.57	8.4	SF011E0119F0800
19c	x	1.5	0.7 / 17.8	335.94 / 499.94	11.2	SF011E3A19F0800
19c	x	2.5	0.8 / 20.2	483.37 / 719.33	14.7	SF011E5A19F0800

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(c)		*(mm^2)*	*(in/mm)*	*(lbs/1000ft) / (kg/km)*	*(45°C ambient)*	
24c	x	0.5	0.6 / 14	194.02 / 288.73	6.3	SF011E1A24F0800
24c	x	1	0.7 / 17.6	304.66 / 453.39	8.4	SF011E0124F0800
24c	x	1.5	0.8 / 20.9	435.44 / 648	11.2	SF011E3A24F0800
24c	x	2.5	0.9 / 23.8	624.89 / 929.94	14.7	SF011E5A24F0800
27c	x	0.5	0.6 / 14.3	209.48 / 311.74	5.4	SF011E1A27F0800
27c	x	1	0.7 / 18	328.4 / 488.71	7.2	SF011E0127F0800
27c	x	1.5	0.8 / 21.4	473.05 / 703.97	9.6	SF011E3A27F0800
27c	x	2.5	1 / 24.3	681.98 / 1014.89	12.6	SF011E5A27F0800
37c	x	0.5	0.6 / 16.1	273.46 / 406.95	5.4	SF011E1A37F0800
37c	x	1	0.8 / 20.2	431.21 / 641.71	7.2	SF011E0137F0800
37c	x	1.5	0.9 / 24	619.15 / 921.39	9.6	SF011E3A37F0800
37c	x	2.5	1.1 / 27.3	899.02 / 1337.89	12.6	SF011E5A37F0800

*Ampacity value based on ABS Rules for Building and Classing Steel Vessels, Version 2023, Table-6. Values are corrected according to Table 6 for number of Conductors.
**Available in both American Wire Gauge (AWG) and Metric wire conductor sizes