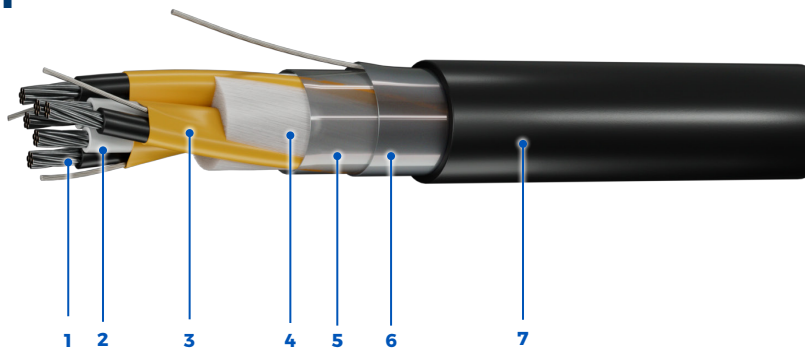
SF-XL (I) 150/250 V Unarmoured Individually and Overall Screened Pairs & Triads (LSZH), XLPE/SHF1

SF-XL (I) 150/250 V unarmoured individually and overall screened pair & triad 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.

Standards:



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

2 – XLPE Insulated Conductors

3 – Individual Aluminum/Mylar Shield with Tinned Copper Drain Wire

4 – Polypropylene Fillers

4 – Fiberglass Tape

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

6 – Protective LSZH Outer Sheath

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), available for both individual and overall shields
- Copper Tape Shield (optional)

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 / IEC 60092-376, Annex A:

  Pairs - Black, White, # coded

  Triads - Black, White, Red, # coded

Control and Instrumentation

SF-XL (I) 150/250 V Unarmoured Individually and Overall Screened Pairs & Triads (LSZH), XLPE/SHF1

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)*	
2pr	x	0.5	0.4 / 9.6	81.2 / 120.83	9	SF022E1A02F0800
4pr	x	0.5	0.4 / 11	111.51 / 165.94	6.3	SF022E1A04F0800
5pr	x	0.5	0.5 / 12.2	132.92 / 197.8	6.3	SF022E1A05F0800
7pr	x	0.5	0.5 / 13.2	160.88 / 239.41	6.3	SF022E1A07F0800
10pr	x	0.5	0.7 / 16.7	231.72 / 344.84	6.3	SF022E1A10F0800
12pr	x	0.5	0.7 / 17.2	256.97 / 382.41	6.3	SF022E1A12F0800
14pr	x	0.5	0.7 / 18.1	287.76 / 428.24	5.4	SF022E1A14F0800
19pr	x	0.5	0.8 / 20.3	367.36 / 546.69	5.4	SF022E1A19F0800
24pr	x	0.5	0.9 / 23.9	476.04 / 708.43	4.5	SF022E1A24F0800
2pr	x	0.75	0.4 / 11.1	103.55 / 154.09	11	SF022E1B02F0800
4pr	x	0.75	0.5 / 13	154 / 229.17	7.7	SF022E1B04F0800
5pr	x	0.75	0.6 / 14.2	176.65 / 262.89	7.7	SF022E1B05F0800
7pr	x	0.75	0.6 / 15.6	226.14 / 336.54	7.7	SF022E1B07F0800
10pr	x	0.75	0.8 / 19.9	326.32 / 485.62	7.7	SF022E1B10F0800
12pr	x	0.75	0.8 / 20.5	366.04 / 544.73	7.7	SF022E1B12F0800
14pr	x	0.75	0.8 / 21.6	408.91 / 608.52	6.6	SF022E1B14F0800
19pr	x	0.75	1 / 24.2	524.47 / 780.5	6.6	SF022E1B19F0800
24pr	x	0.75	1.1 / 28.5	679.28 / 1010.88	5.5	SF022E1B24F0800
2pr	x	1.5	0.5 / 13.7	155.22 / 230.99	16	SF022E3A02F0800
4pr	x	1.5	0.6 / 16.1	236.59 / 352.08	11.2	SF022E3A04F0800
5pr	x	1.5	0.7 / 17.6	269.56 / 401.15	11.2	SF022E3A05F0800
7pr	x	1.5	0.8 / 19.4	346.7 / 515.95	11.2	SF022E3A07F0800
10pr	x	1.5	1 / 24.9	503.83 / 749.78	11.2	SF022E3A10F0800
12pr	x	1.5	1 / 26	581.53 / 865.41	11.2	SF022E3A12F0800
14pr	x	1.5	1.1 / 27.3	655.25 / 975.11	9.6	SF022E3A14F0800
19pr	x	1.5	1.2 / 30.7	837.15 / 1245.82	9.6	SF022E3A19F0800
24pr	x	1.5	1.4 / 36.4	1102.49 / 1640.69	8	SF022E3A24F0800
2pr	x	2.5	0.6 / 15.5	202.76 / 301.73	21	SF022E5A02F0800
4pr	x	2.5	0.7 / 18	306.47 / 456.08	14.7	SF022E5A04F0800
5pr	x	2.5	0.8 / 20	361.61 / 538.13	14.7	SF022E5A05F0800
7pr	x	2.5	0.9 / 21.8	455.84 / 678.36	14.7	SF022E5A07F0800
10pr	x	2.5	1.1 / 28.3	677.16 / 1007.72	14.7	SF022E5A10F0800
12pr	x	2.5	1.2 / 29.4	784.36 / 1167.25	14.7	SF022E5A12F0800
14pr	x	2.5	1.2 / 31	887.65 / 1320.97	12.6	SF022E5A14F0800
19pr	x	2.5	1.4 / 34.8	1135.89 / 1690.39	12.6	SF022E5A19F0800
24pr	x	2.5	1.6 / 41.3	1491.77 / 2219.99	10.5	SF022E5A24F0800
2tr	x	0.5	0.4 / 10.6	97.45 / 145.02	7.2	SF032E1A02F0800
4tr	x	0.5	0.5 / 12.4	143.75 / 213.92	6.3	SF032E1A04F0800
5tr	x	0.5	0.5 / 13.5	163.89 / 243.9	6.3	SF032E1A05F0800
7tr	x	0.5	0.6 / 14.6	201.83 / 300.36	6.3	SF032E1A07F0800

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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)*	
10tr	x	0.5	0.7 / 18.9	302.7 / 450.46	5.4	SF032E1A10F0800
12tr	x	0.5	0.8 / 19.5	338.87 / 504.29	5.4	SF032E1A12F0800
14tr	x	0.5	0.8 / 20.5	377.98 / 562.5	5.4	SF032E1A14F0800
19tr	x	0.5	0.9 / 23	483.59 / 719.66	4.5	SF032E1A19F0800
24tr	x	0.5	1.1 / 27	626.6 / 932.48	4.5	SF032E1A24F0800
2tr	x	0.75	0.5 / 12.5	132.82 / 197.65	8.8	SF032E1B02F0800
4tr	x	0.75	0.6 / 14.4	194.94 / 290.1	7.7	SF032E1B04F0800
5tr	x	0.75	0.6 / 16	230.83 / 343.52	7.7	SF032E1B05F0800
7tr	x	0.75	0.7 / 17.4	286.67 / 426.62	7.7	SF032E1B07F0800
10tr	x	0.75	0.9 / 22.5	427.11 / 635.61	6.6	SF032E1B10F0800
12tr	x	0.75	0.9 / 23.2	480.67 / 715.31	6.6	SF032E1B12F0800
14tr	x	0.75	1 / 24.5	542.09 / 806.72	6.6	SF032E1B14F0800
19tr	x	0.75	1.1 / 27.4	693.67 / 1032.29	5.5	SF032E1B19F0800
24tr	x	0.75	1.3 / 32.6	915.15 / 1361.89	5.5	SF032E1B24F0800
2tr	x	1.5	0.6 / 15.5	199.79 / 297.33	12.8	SF032E3A02F0800
4tr	x	1.5	0.7 / 18	300.87 / 447.75	11.2	SF032E3A04F0800
5tr	x	1.5	0.8 / 19.9	354.78 / 527.96	11.2	SF032E3A05F0800
7tr	x	1.5	0.9 / 21.8	446.53 / 664.5	11.2	SF032E3A07F0800
10tr	x	1.5	1.1 / 28.3	664.51 / 988.89	9.6	SF032E3A10F0800
12tr	x	1.5	1.2 / 29.4	769.27 / 1144.8	9.6	SF032E3A12F0800
14tr	x	1.5	1.2 / 31	870.24 / 1295.05	9.6	SF032E3A14F0800
19tr	x	1.5	1.4 / 34.8	1112.74 / 1655.94	8	SF032E3A19F0800
24tr	x	1.5	1.6 / 41.3	1463.52 / 2177.96	8	SF032E3A24F0800
2tr	x	2.5	0.7 / 17.3	257.39 / 383.04	16.8	SF032E5A02F0800
4tr	x	2.5	0.8 / 20.4	408.62 / 608.1	14.7	SF032E5A04F0800
5tr	x	2.5	0.9 / 22.6	482.55 / 718.11	14.7	SF032E5A05F0800
7tr	x	2.5	1 / 24.7	614.26 / 914.12	14.7	SF032E5A07F0800
10tr	x	2.5	1.3 / 32.1	910.18 / 1354.5	12.6	SF032E5A10F0800
12tr	x	2.5	1.3 / 33.4	1051.78 / 1565.22	12.6	SF032E5A12F0800
14tr	x	2.5	1.4 / 35.2	1195.15 / 1778.58	12.6	SF032E5A14F0800
19tr	x	2.5	1.6 / 39.7	1560.79 / 2322.7	10.5	SF032E5A19F0800
24tr	x	2.5	1.9 / 47.2	2043.53 / 3041.11	10.5	SF032E5A24F0800

*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