

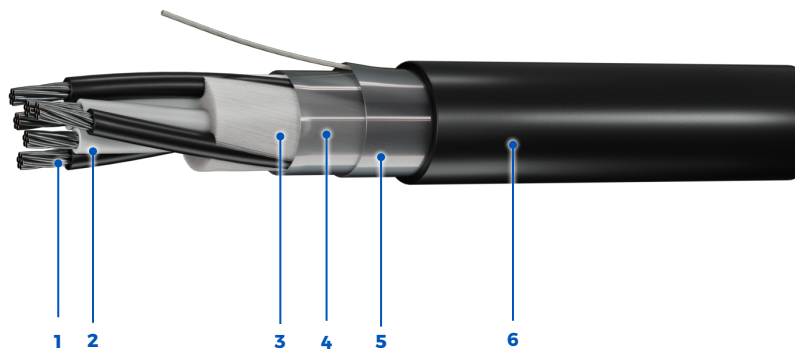
# SF-XL (C) 150/250 V Unarmoured Overall Screened Pairs & Triads (LSZH), XLPE/SHF1

SF-XL (C) 150/250 V unarmoured 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:



Transport  
Canada



- 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

## 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)
- 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

## Control and Instrumentation

## Colour Coding

Custom colour coding available, inc.

- Per IEEE 1580 / IEC 60092-376, Annex A:  
Pairs - Black, White, # coded  
Triads - Black, White, Red, # coded

# SF-XL (C) 150/250 V Unarmoured Overall Screened Pairs & Triads (LSZH), XLPE/SHF1

| NUMBER OF<br>CONDUCTORS | x | SIZE OF<br>CONDUCTORS | NOMINAL OD<br>OVERALL CABLE | CABLE WEIGHT           | AMPACITY       | SHAWFLEX<br>PART NUMBER |
|-------------------------|---|-----------------------|-----------------------------|------------------------|----------------|-------------------------|
| (c)                     |   | (mm <sup>2</sup> )    | (in/mm)                     | (lbs/1000ft) / (kg/km) | (45°C ambient) |                         |
| 1pr                     | x | 0.5                   | 0.3 / 6.4                   | 41.02 / 61.04          | 14             | SF021E1A01F0800         |
| 2pr                     | x | 0.5                   | 0.4 / 9.3                   | 72.76 / 108.27         | 9              | SF021E1A02F0800         |
| 4pr                     | x | 0.5                   | 0.4 / 10.6                  | 97.74 / 145.46         | 6.3            | SF021E1A04F0800         |
| 5pr                     | x | 0.5                   | 0.5 / 11.7                  | 114.98 / 171.11        | 6.3            | SF021E1A05F0800         |
| 7pr                     | x | 0.5                   | 0.5 / 12.6                  | 137.6 / 204.77         | 6.3            | SF021E1A07F0800         |
| 10pr                    | x | 0.5                   | 0.6 / 16                    | 197.24 / 293.52        | 6.3            | SF021E1A10F0800         |
| 12pr                    | x | 0.5                   | 0.6 / 16.4                  | 217.13 / 323.13        | 6.3            | SF021E1A12F0800         |
| 14pr                    | x | 0.5                   | 0.7 / 17.2                  | 241.89 / 359.97        | 5.4            | SF021E1A14F0800         |
| 19pr                    | x | 0.5                   | 0.8 / 19.3                  | 305.9 / 455.23         | 5.4            | SF021E1A19F0800         |
| 24pr                    | x | 0.5                   | 0.9 / 22.7                  | 395.41 / 588.43        | 4.5            | SF021E1A24F0800         |
| 1pr                     | x | 0.75                  | 0.3 / 7.2                   | 50.84 / 75.66          | 15             | SF021E1B01F0800         |
| 2pr                     | x | 0.75                  | 0.4 / 10.7                  | 92.83 / 138.14         | 11             | SF021E1B02F0800         |
| 4pr                     | x | 0.75                  | 0.5 / 12.5                  | 133.87 / 199.22        | 7.7            | SF021E1B04F0800         |
| 5pr                     | x | 0.75                  | 0.5 / 13.6                  | 151.33 / 225.21        | 7.7            | SF021E1B05F0800         |
| 7pr                     | x | 0.75                  | 0.6 / 14.8                  | 183.95 / 273.74        | 7.7            | SF021E1B07F0800         |
| 10pr                    | x | 0.75                  | 0.8 / 19.1                  | 276.98 / 412.18        | 7.7            | SF021E1B10F0800         |
| 12pr                    | x | 0.75                  | 0.8 / 19.6                  | 307.17 / 457.11        | 7.7            | SF021E1B12F0800         |
| 14pr                    | x | 0.75                  | 0.8 / 20.6                  | 341.06 / 507.55        | 6.6            | SF021E1B14F0800         |
| 19pr                    | x | 0.75                  | 0.9 / 23.1                  | 433.56 / 645.21        | 6.6            | SF021E1B19F0800         |
| 24pr                    | x | 0.75                  | 1.1 / 27.2                  | 561.14 / 835.06        | 5.5            | SF021E1B24F0800         |
| 1pr                     | x | 1.5                   | 0.3 / 8.8                   | 73.43 / 109.28         | 20             | SF021E3A01F0800         |
| 2pr                     | x | 1.5                   | 0.5 / 13.3                  | 136.73 / 203.48        | 16             | SF021E3A02F0800         |
| 4pr                     | x | 1.5                   | 0.6 / 15.6                  | 202.8 / 301.79         | 11.2           | SF021E3A04F0800         |
| 5pr                     | x | 1.5                   | 0.7 / 17                    | 230.08 / 342.39        | 11.2           | SF021E3A05F0800         |
| 7pr                     | x | 1.5                   | 0.7 / 18.7                  | 293.73 / 437.11        | 11.2           | SF021E3A07F0800         |
| 10pr                    | x | 1.5                   | 0.9 / 23.9                  | 425.69 / 633.49        | 11.2           | SF021E3A10F0800         |
| 12pr                    | x | 1.5                   | 1 / 24.7                    | 472.7 / 703.46         | 11.2           | SF021E3A12F0800         |
| 14pr                    | x | 1.5                   | 1 / 26.2                    | 546.14 / 812.74        | 9.6            | SF021E3A14F0800         |
| 19pr                    | x | 1.5                   | 1.2 / 29.4                  | 695.03 / 1034.32       | 9.6            | SF021E3A19F0800         |
| 24pr                    | x | 1.5                   | 1.4 / 34.6                  | 895.59 / 1332.78       | 8              | SF021E3A24F0800         |
| 1pr                     | x | 2.5                   | 0.4 / 9.7                   | 90.94 / 135.33         | 26             | SF021E5A01F0800         |
| 2pr                     | x | 2.5                   | 0.6 / 14.8                  | 175.25 / 260.81        | 21             | SF021E5A02F0800         |
| 4pr                     | x | 2.5                   | 0.7 / 17.4                  | 270.06 / 401.89        | 14.7           | SF021E5A04F0800         |
| 5pr                     | x | 2.5                   | 0.8 / 19.3                  | 320.56 / 477.05        | 14.7           | SF021E5A05F0800         |
| 7pr                     | x | 2.5                   | 0.8 / 21                    | 401.7 / 597.79         | 14.7           | SF021E5A07F0800         |
| 10pr                    | x | 2.5                   | 1.1 / 27.2                  | 597.87 / 889.72        | 14.7           | SF021E5A10F0800         |
| 12pr                    | x | 2.5                   | 1.1 / 28                    | 670.68 / 998.07        | 14.7           | SF021E5A12F0800         |
| 14pr                    | x | 2.5                   | 1.2 / 29.8                  | 774.52 / 1152.62       | 12.6           | SF021E5A14F0800         |
| 19pr                    | x | 2.5                   | 1.3 / 33.4                  | 992.41 / 1476.87       | 12.6           | SF021E5A19F0800         |
| 24pr                    | x | 2.5                   | 1.6 / 39.6                  | 1300.16 / 1934.85      | 10.5           | SF021E5A24F0800         |

# SF-XL (C) 150/250 V Unarmoured Overall Screened Pairs & Triads (LSZH), XLPE/SHF1

| NUMBER OF<br>CONDUCTORS | X | SIZE OF<br>CONDUCTORS | NOMINAL OD<br>OVERALL CABLE | CABLE WEIGHT           | AMPACITY       | SHAWFLEX<br>PART NUMBER |
|-------------------------|---|-----------------------|-----------------------------|------------------------|----------------|-------------------------|
| (c)                     |   | (mm <sup>2</sup> )    | (in/mm)                     | (lbs/1000ft) / (kg/km) | (45°C ambient) |                         |
| 1tr                     | x | 0.5                   | 0.3 / 6.7                   | 46.85 / 69.72          | 9              | SF031E1A01F0800         |
| 2tr                     | x | 0.5                   | 0.4 / 10.1                  | 87.11 / 129.64         | 7.2            | SF031E1A02F0800         |
| 4tr                     | x | 0.5                   | 0.5 / 11.9                  | 127.87 / 190.3         | 6.3            | SF031E1A04F0800         |
| 5tr                     | x | 0.5                   | 0.5 / 12.9                  | 145.72 / 216.86        | 6.3            | SF031E1A05F0800         |
| 7tr                     | x | 0.5                   | 0.5 / 13.9                  | 177.44 / 264.06        | 6.3            | SF031E1A07F0800         |
| 10tr                    | x | 0.5                   | 0.7 / 17.7                  | 255.17 / 379.74        | 5.4            | SF031E1A10F0800         |
| 12tr                    | x | 0.5                   | 0.7 / 18.2                  | 283.57 / 421.99        | 5.4            | SF031E1A12F0800         |
| 14tr                    | x | 0.5                   | 0.8 / 19.4                  | 328.58 / 488.98        | 5.4            | SF031E1A14F0800         |
| 19tr                    | x | 0.5                   | 0.8 / 21.5                  | 407.71 / 606.73        | 4.5            | SF031E1A19F0800         |
| 24tr                    | x | 0.5                   | 1 / 25.3                    | 527.25 / 784.63        | 4.5            | SF031E1A24F0800         |
| 1tr                     | x | 0.75                  | 0.3 / 7.6                   | 59.33 / 88.3           | 11             | SF031E1B01F0800         |
| 2tr                     | x | 0.75                  | 0.5 / 12                    | 120.9 / 179.92         | 8.8            | SF031E1B02F0800         |
| 4tr                     | x | 0.75                  | 0.5 / 13.8                  | 169.45 / 252.17        | 7.7            | SF031E1B04F0800         |
| 5tr                     | x | 0.75                  | 0.6 / 15.3                  | 203.26 / 302.48        | 7.7            | SF031E1B05F0800         |
| 7tr                     | x | 0.75                  | 0.7 / 16.6                  | 250.9 / 373.37         | 7.7            | SF031E1B07F0800         |
| 10tr                    | x | 0.75                  | 0.8 / 21.2                  | 363.57 / 541.05        | 6.6            | SF031E1B10F0800         |
| 12tr                    | x | 0.75                  | 0.9 / 21.8                  | 405.63 / 603.65        | 6.6            | SF031E1B12F0800         |
| 14tr                    | x | 0.75                  | 0.9 / 23.2                  | 466.65 / 694.46        | 6.6            | SF031E1B14F0800         |
| 19tr                    | x | 0.75                  | 1 / 26                      | 598.84 / 891.17        | 5.5            | SF031E1B19F0800         |
| 24tr                    | x | 0.75                  | 1.2 / 30.6                  | 774.18 / 1152.11       | 5.5            | SF031E1B24F0800         |
| 1tr                     | x | 1.5                   | 0.4 / 9.2                   | 87.44 / 130.13         | 16             | SF031E3A01F0800         |
| 2tr                     | x | 1.5                   | 0.6 / 14.6                  | 171.89 / 255.79        | 12.8           | SF031E3A02F0800         |
| 4tr                     | x | 1.5                   | 0.7 / 17.2                  | 263.86 / 392.67        | 11.2           | SF031E3A04F0800         |
| 5tr                     | x | 1.5                   | 0.8 / 19.1                  | 312.83 / 465.55        | 11.2           | SF031E3A05F0800         |
| 7tr                     | x | 1.5                   | 0.8 / 20.8                  | 391.14 / 582.08        | 11.2           | SF031E3A07F0800         |
| 10tr                    | x | 1.5                   | 1.1 / 26.9                  | 582.35 / 866.63        | 9.6            | SF031E3A10F0800         |
| 12tr                    | x | 1.5                   | 1.1 / 27.8                  | 653.42 / 972.4         | 9.6            | SF031E3A12F0800         |
| 14tr                    | x | 1.5                   | 1.2 / 29.5                  | 754.07 / 1122.18       | 9.6            | SF031E3A14F0800         |
| 19tr                    | x | 1.5                   | 1.3 / 33.1                  | 965.63 / 1437.01       | 8              | SF031E3A19F0800         |
| 24tr                    | x | 1.5                   | 1.5 / 39                    | 1244.61 / 1852.18      | 8              | SF031E3A24F0800         |
| 1tr                     | x | 2.5                   | 0.4 / 10.2                  | 111.71 / 166.24        | 21             | SF031E5A01F0800         |
| 2tr                     | x | 2.5                   | 0.7 / 16.6                  | 234.86 / 349.51        | 16.8           | SF031E5A02F0800         |
| 4tr                     | x | 2.5                   | 0.8 / 19.5                  | 371.25 / 552.48        | 14.7           | SF031E5A04F0800         |
| 5tr                     | x | 2.5                   | 0.8 / 21.4                  | 429.66 / 639.4         | 14.7           | SF031E5A05F0800         |
| 7tr                     | x | 2.5                   | 0.9 / 23.6                  | 559.54 / 832.69        | 14.7           | SF031E5A07F0800         |
| 10tr                    | x | 2.5                   | 1.2 / 30.6                  | 828.29 / 1232.64       | 12.6           | SF031E5A10F0800         |
| 12tr                    | x | 2.5                   | 1.2 / 31.6                  | 936.31 / 1393.37       | 12.6           | SF031E5A12F0800         |
| 14tr                    | x | 2.5                   | 1.3 / 33.5                  | 1080.99 / 1608.69      | 12.6           | SF031E5A14F0800         |
| 19tr                    | x | 2.5                   | 1.5 / 37.6                  | 1396.69 / 2078.51      | 10.5           | SF031E5A19F0800         |
| 24tr                    | x | 2.5                   | 1.8 / 44.6                  | 1823.32 / 2713.4       | 10.5           | SF031E5A24F0800         |

\*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