

FLEXIBLE SINGLE CORE CABLES

FLEXILITE™ SDI FLA SERIES

Flexible Aluminium (Fixed Wiring), LSHF
Single Core SDI Cable 0.6/1kV 110°C



APPLICATIONS:

Power distribution: Suitable for use in main and sub-main circuits on cable tray, ladder racks and buried in conduit or ducting.

High current installations: Perfect for high current installations where a lightweight and cost-effective solution is critical for reducing install costs.

Industrial Power Supply: Used in factories, warehouses, and heavy-duty machinery to supply power efficiently over large distances.

Greenstar applications: PVC-free, Low Smoke Halogen Free construction suitable for sustainable building standards.

| FEATURES | BENEFITS |
|--|---|
| Super lightweight construction: Aluminium conductors, significantly lighter than copper cables with up to 50% weight reduction. | Easier handling and faster installation, especially in hard-to-access environments. |
| EASY RUN™ finely stranded conductors provide flexibility and improved bending radius compared with traditional class 2 cables | Making it easier and faster to install, especially in confined spaces. |
| EASY GLIDE™ low-friction sheath | Making it easier to pull through conduit and ensuring a much smoother installation. |
| FLEXI CHILL™ remains flexible in cold temperatures | Making it easy to install in cold conditions. |
| Low Smoke Halogen Free sheath (LSHF) | Minimises toxic fumes and smoke in the event of a fire. |
| Flame retardant sheath made to IEC 60332-3-22 | Reduces fire spread in high-density, bunched cable routes through critical areas, ensuring minimised flame propagation. |
| UV stabilised black sheath | Provides prolonged UV resistance to sunlight degradation. |

CONSTRUCTION:

Conductor: Finely stranded EC1350 aluminium

Insulation: X-HF-110

Sheath: SE-LSHF-EG

CHARACTERISTICS:

Operating Temperature Range: Fixed -25°C to 110°C

Maximum Conductor Temperature: 110°C

Rated Voltage: U_o/U 0.6/1kV.

Max AC Operating Voltage: U_o 0.7kV.

Minimum bending radius during installation: 150mm² and below = 5.5 x cable diameter. 185mm² and above = 9 x cable diameter.

Minimum bending radius after installation: 150mm² and below = 4 x cable diameter. 185mm² and above = 6 x cable diameter.


Sheath Colour: Black (other colours available on request)

Insulation Colour: White

Relevant Standards IEC 60332-1, IEC 60332-1-2, IEC 60332-3-22, IEC 61034.2, IEC 60754.1, AS/NZS 5000.1, AS/NZS 1125, AS/NZS 3808, **RoHS** Compliant.

FLEXILITE™ SDI FLA SERIES continued



| Code | No. of cores x Size (mm ²) | Approx. overall diameter (mm) | Listed pulling force (kN) | Approx. weight (Kg/Km) | D. C. resistance of conductor 20°C (Ω/Km) | Nominal amps un- enclosed @ 30°C fixed application Touching  |
|--------|--|---|-------------------------------------|----------------------------------|---|--|
| FLA050 | 1 x 50.0 | 14.9 | 1.9 | 262 | 0.641 | 173 |
| FLA070 | 1 x 70.0 | 16.9 | 2.7 | 347 | 0.443 | 220 |
| FLA095 | 1 x 95.0 | 18.7 | 3.7 | 439 | 0.32 | 274 |
| FLA120 | 1 x 120.0 | 20.4 | 4.6 | 528 | 0.253 | 320 |
| FLA150 | 1 x 150.0 | 23.1 | 5.9 | 656 | 0.206 | 368 |
| FLA185 | 1 x 185.0 | 25.6 | 7.2 | 809 | 0.164 | 429 |
| FLA240 | 1 x 240.0 | 28.7 | 9.4 | 1022 | 0.125 | 516 |
| FLA300 | 1 x 300.0 | 31.8 | 11.7 | 1242 | 0.1 | 597 |
| FLA400 | 1 x 400.0 | 35.8 | 15.6 | 1602 | 0.0778 | 705 |
| FLA500 | 1 x 500.0 | 39.8 | 19.5 | 1982 | 0.0605 | 825 |
| FLA630 | 1 x 630.0 | 44.8 | 24.6 | 2542 | 0.0469 | 969 |