

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.

See over for full product table ▶

FLEXIBLE SINGLE CORE CABLES

FLEXILITE™ SDI FLA SERIES continued



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

IMPORTANT CUSTOMER NOTICE: CABLE END SEALING

ALL FLA SERIES CABLES ARE SUPPLIED WITH FACTORY-APPLIED PROTECTIVE END CAPS.

CRITICAL REQUIREMENT: To maintain the cable's integrity and conductor properties, the cable ends must be kept sealed at all times, including during storage, installation, and any temporary layover periods. Any moisture ingress due to failure to maintain a continuous, effective seal will void the product warranty.