

Multi-purpose LSF sheathed power cable

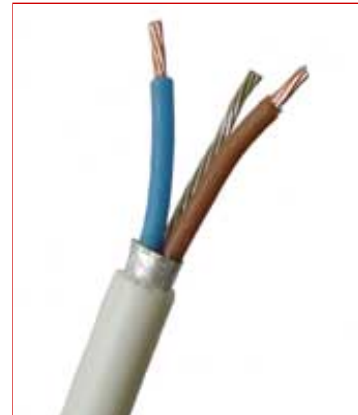
Description

Protected fixed wiring cable with bonded aluminium tape giving excellent mechanical resistance and an effective screen to help reduce electrical interference.

Benefits

Installed benefits compared to traditional fixed wiring installations include: Large time/cost savings, much lighter and smaller compared to SWA

- Cost saving - no need to purchase trunking
- Labour saving - less terminations and jointing
- Easy to use
- Ideal for thin partitions and building voids



Applications

Partitioned walls and voids, has ability to fail safe if penetrated by a sharp object. Ring main power, lighting, screened fixed wiring.

Standards

National BS 6004; BS 8436







Design

1. Conductor
 - Bare copper: Stranded class 5 to BS EN60228:2005
2. Insulation
 - XLPE to BS7655 Type GP8
3. Uninsulated protective conductor
 - Tinned copper stranded class 5 to BS EN60228:2005
4. Screen
 - Bonded Aluminium Tape
5. Outer sheath
 - Low smoke zero halogen free UV stable

Marking

ALSECURE NXS Pre wired conduit cable

Core Identification

					
Halogen free Yes	Flame retardant BS EN60332-1-2	Smoke density EN 50268-2	Gases toxicity BS EN50267-2-1	Operating temperature, range -10 .. 90 °C	Electro magnetic interference resistance Yes

- 2 cores: brown - blue
- 3 cores: brown - black - grey
- 4 cores: brown - black - grey - blue





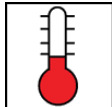

Installation

Standard stuffing glands can be used. The wiring regulations BS7671 should be adhered to at all times. NXS can be installed in cable trays and baskets, direct on most surfaces and behind plaster. Indoors and outside.

Bending radius: 6D

Contact

Fire Performance Cables
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Characteristics
Construction characteristics

Halogen free Yes

Usage characteristics

Flame retardant BS EN60332-1-2

Smoke density EN 50268-2

Gases toxicity BS EN50267-2-1

Operating temperature, range -10 .. 90 °C

Electro magnetic interference resistance Yes

Temperature Correcting factors NXS

Ambient Temp °C	25	35	40	45	50	55	60	65	70	75	80	85
Fuse to BS88 or BS1361 or circuit breakers to BS3871 or BS60898	1.02	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	0.5	0.41	0.29
Semi enclosed fuse to BS3036	1.02	0.98	0.95	0.93	0.91	0.89	0.87	0.85	0.79	0.69	0.56	0.39

Correction rating for grouping

No of Cables	2	3	4	5	6	8	10	12
Clipped direct	0.8	0.7	0.65	0.6	0.57	0.52	0.48	0.45
On cable tray	0.86	0.81	0.77	0.75	0.74	0.73	0.71	0.7

Electrical Data
Electrical Data for NXS

Area mm ²	Max DC Resistance ohms/KM @ 20°C	Nom AC resistance ohms/km @90°C @ 50Hz	Inductive reactance ohms/km @ 50Hz	Short circuit rating in KA for 1 second
1.5	12.1	15.3	0.1	0.21
2.5	7.41	9.43	0.097	0.35
4	4.61	5.86	0.092	0.57
6	3.08	3.93	0.088	0.85