

Multipurpose protected low smoke halogen free wiring cable

Description

Applications

Multipurpose including partitioned walls and voids. For power, lighting and control circuits. Fail safe, will operate a 32A Type B MCB circuit breaker when penetrated by a sharp object.

Benefits

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

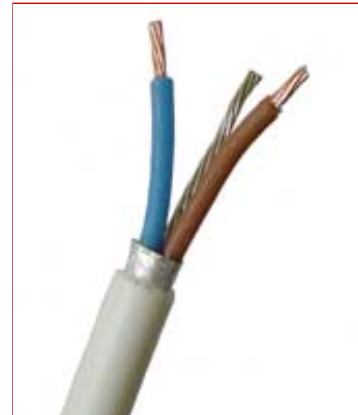
Design

1. Conductor

- XLPE insulated stranded copper
- 2. Uninsulated protective conductor
- Uninsulated tinned copper earth conductor

3. Screen

- Bonded Aluminium Screen
- 5. Outer sheath
- Low smoke halogen free UV stable



Standards

National BS 6004; BS 8436

Marking

ALSECURE NXS Pre wired conduit cable

Core Identification and Range

All available in sizes 1.5 - 6mm

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



Halogen free
Yes



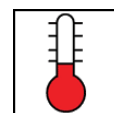
Flame retardant
BS EN60332-1-2



Smoke density
EN 50268-2



Gases toxicity
BS EN50267-2-1



Operating temperature,
range
-30 .. 90 °C



Electro magnetic interference
resistance
Yes

Characteristics

Construction characteristics

Halogen free	Yes
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Usage characteristics

Flame retardant	BS EN60332-1-2
Smoke density	EN 50268-2
Gases toxicity	BS EN50267-2-1
Operating temperature, range	-30 .. 90 °C
Electro magnetic interference resistance	Yes

Current Ratings

Clipped direct				
Area	2 core cable, single phase AC or DC		3 or 4 core cable, three phase AC	
sq.mm	Current rating amp	Volt drop mV per amp per m	Current rating amp	Volt drop mV per amp per m
1	19	46	17	40
1.5	24	31	22	27
2.5	33	19	30	16
4	45	12	40	10
6	58	7.9	52	6.8
On cable tray				
Area	2 core cable, single phase AC or DC		3 or 4 core cable, three phase AC	
sq.mm	Current rating amp	Volt drop mV per amp per m	Current rating amp	Volt drop mV per amp per m
1	21	46	18	40
1.5	26	31	23	27
2.5	36	19	32	16
4	49	12	42	10
6	63	7.9	54	6.8

Current ratings are based on a "single circuit" in accordance with the IEE Wiring Regulations BS7671, Table 4E2A. Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductors is suitable for the conductor operating temperature. (BS7671 reg 512-02). The above-tabulated current ratings should be multiplied by the rating factor (0.8) when conductor operating temperature has not to exceed a recommended terminal temperature of 70°C.

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