

ALSECURE® NX 200

BS 5839-2: 2002 Cat. Standard

Types Approval

- BASEC
- LPCB

Applications

Fire detection and
Fire alarm systems for buildings
Public address systems
Emergency lighting.

300/500 V



Max conductor temperature: 70 °C

Design

1. Conductor

Bare copper:
Solid class 1 (1, 1.5, 2.5 mm²)
Stranded class 2 (4 mm²)
according to BS 6360/
IEC 60228

2. Insulation

Silicon rubber
to BS 7655

3. Uninsulated protective conductor

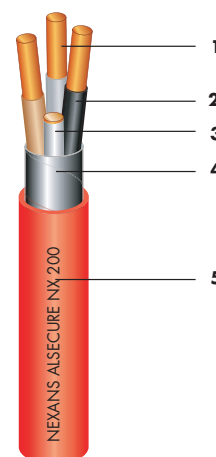
Tinned copper
according to BS 6360: same
class and cross-sectional area as
insulated conductor

4. Screen

Aluminium/polyester tape with
optional polyester tape

5. Outer Sheath

Halogen free polyolefin
Colour: red or white



Marking

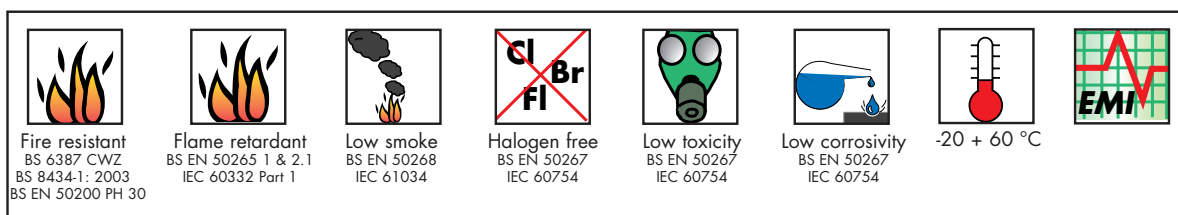
ALSECURE NX 200 - n x s
300/500V - BASEC - LPCB -
BS 7629-1 - BS 6387 CWZ -
BS 8434-1 - NEXANS -
week/year - H

Core Identification

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

Standards

BS 7629 Part 1
BS 5839-1: 2002
Cat. Standard



ALSECURE® NX 200

Cables (mm ²)	Outer diameter (approx.)		Current rating (A)	Voltage drop (V/A x km)		Weight approx. (kg/km)
	Min. (mm)	Max. (mm)		AC/DC 2 cores loaded	AC 3 cores loaded	
2 x 1	7.4	8.2	15.0	44.0		87
2 x 1.5	7.8	8.6	19.5	29.0		103
2 x 2.5	9.6	10.5	27.0	18.0		164
2 x 4	11.4	11.8	36.0	11.0		247
3 x 1	7.8	9.0	13.5		38.0	102
3 x 1.5	8.3	9.5	17.5		25.0	123
3 x 2.5	10.0	11.9	24.0		15.0	198
3 x 4	11.8	13.2	32.0		9.5	295
4 x 1	8.4	10.0	13.5		38.0	125
4 x 1.5	8.9	10.5	17.5		25.0	151
4 x 2.5	11.0	13.0	24.0		15.0	242
4 x 4	13.1	14.1	32.0		9.5	362

These current and voltage drops data are indicated for continuous duty operation.

They are as defined in BS 7671: 2001

table 4D2A and apply to:

- maximum conductor temperature = 70 °C
- nominal frequencies = 50 - 60 Hz

On cable in air, clipped direct
at ambient air temperature = 30 °C

Voltage drop

The data are based on $\cos \varphi = 1$

For other laying conditions, refer to BS 7671: 2001 standard



= 6 x outer diam. max.⁽¹⁾

⁽¹⁾ to be doubled during the laying operations