

ALSECURE® NX 200 PLUS BS 5839-1: 2002 Cat. Enhanced

Type Approval Certificates

- BASEC
- LPCB



Applications

Fire detection and
Fire alarm systems for buildings
Public address systems
Emergency lighting.
Especially design to meet the
Enhanced requirements : the
PH120 class and additionally
meets the requirements for
integrated water spray.

300/500 V

Max core temperature: 70 °C

Design

1. Conductor

Bare copper:
Solid class 1
according to BS 6360/
IEC 60228

2. Insulation

Silicon rubber
to BS 7655

3. Uninsulated protective conductor

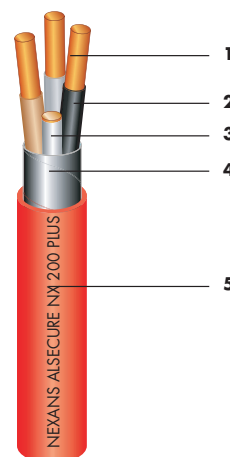
Tinned copper
according to BS 6360:
same class and cross-
sectional area as:
insulated conductor

4. Screen

Aluminium/polyester tape
with optional polyester tape

5. Outer Sheath

Halogen free polyolefin
High Performance
Colour: red or white



Marking

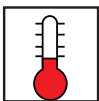
ALSECURE NX 200 PLUS - n x s -
300/500V - BASEC - LPCB
BS 7629-1 - BS 6387 CWZ -
BS 8434-2 - NEXANS -
week/year - H

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. Enhanced

							
Fire resistant BS 6387 CWZ BS 8434-1: 2003 BS EN 50200 PH 30	Flame retardant BS EN 50265 1 & 2.1 IEC 60332 Part 1	Low smoke BS EN 50268 IEC 61034	Halogen free BS EN 50267 IEC 60754	Low toxicity BS EN 50267 IEC 60754	Low corrosivity BS EN 50267 IEC 60754	-20 + 60 °C	EMI

ALSECURE® NX 200 PLUS

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
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
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

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:

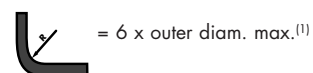
- maximum conductor temperature = 70 °C
- nominal frequencies = 50 - 60 Hz

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



⁽¹⁾ to be doubled during the laying operations