

# Alsecure® NX200 Cable

## Electrical Characteristics

<b>Fire Resistant:</b>	BS 6387 CWZ, BS EN 50200 PH 120
<b>Fire Retardant:</b>	IEC 60332-1
<b>Smoke Density:</b>	EN/IEC 61034-2
<b>Operating Temperature:</b>	<b>Maximum: 90°C • Minimum: -25°C</b>
<b>Bending Factor when Installed:</b>	6(xD)
<b>Chemical Resistance:</b>	Good
<b>Rated Voltage U<sub>0</sub>/U (Um):</b>	300/500V
<b>Maximum Operating Voltage:</b>	500V
<b>Test Voltage:</b>	2000V

## Core Identification

<b>Two Cores:</b>	Brown - blue
<b>Three Cores:</b>	Brown - black - grey
<b>Four Cores:</b>	Brown - black - grey - blue

Stock info	Product name	No. of cores n	Nom. cross section mm <sup>2</sup>	Nom. outer diam. mm	Cable weight approx. kg/km	Conductor class	Maximum conductor resistance Ω/km	Current rating DC or single phase AC enclosed Apms	Current rating DC or single phase AC direct clipped Apms	Voltage drop DC or single core AC mV/A/m
Made to order	NX200 2 x 1	2	1	8	79	1	18.1	17	19	46
Made to order	NX200 3 x 1	3	1	8.4	97	1	18.1	17	19	46
Made to order	NX200 4 x 1	4	1	9.3	122	1	18.1	17	19	46
In stock	NX200 2 x 1.5	2	1.5	8	89	1	12.1	22	24	31
In stock	NX200 3 x 1.5	3	1.5	8.4	110	1	12.1	22	24	31
In stock	NX200 4 x 1.5	4	1.5	9.5	133	1	12.1	22	24	31
In stock	NX200 2 x 2.5	2	2.5	9.3	126	1	7.41	30	33	19
In stock	NX200 3 x 2.5	3	2.5	10.1	161	1	7.41	30	33	19
Made to order	NX200 4 x 2.5	4	2.5	11.2	201	1	7.41	30	33	19
In stock	NX200 2 x 4	2	4	11.3	196	2	4.61	40	45	12
Made to order	NX200 4 x 4	4	4	14.1	315	2	4.61	40	45	12
In stock	NX200 7 x 1.5	7	1.5	11.8	221	1	-	-	-	-
Made to order	NX200 12 x 1.5	12	1.5	14.8	340	1	-	-	-	-

## Types Approval

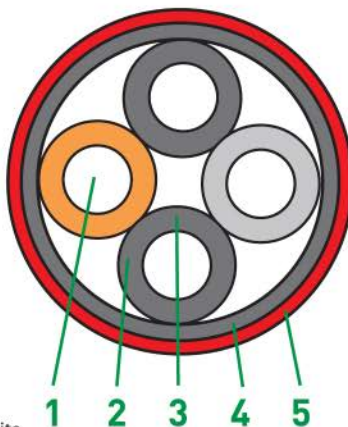
BASEC  
LPCB

## Application

- Fire detection and fire alarm systems for buildings
- Public address systems
- Emergency lighting

## Design

- 1. Conductor:** Bare copper, Solid Class 1 (1, 1.5mm<sup>2</sup>), Stranded Class 2 (2.5 4mm<sup>2</sup>) according to BS 6360/IEC 60228
- 2. Insulation:** Silicon rubber to BS 7655
- 3. Un-insulated Protective Conductor:** Tinned copper according to BS6360: 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



## Technical Information

<b>Insulation:</b>	Silicone
<b>Armour Type:</b>	Aluminium tape
<b>Outer Sheath:</b>	HFFR (Halogene Free Flame Retardant)
<b>Marking:</b>	ALSECURE NX 200 - n x s 300/500V - BASEC - LPCB - BS 7629-1 - BS 6387 CWZ - BS 8434-1 - NEXANS - week/year
<b>Standards:</b>	BS 7629 Part 1 BS 5839-1: 2002 Cat. Standard
<b>Electrical Characteristics:</b>	Rated Voltage U <sub>0</sub> /U 300/500 V
<b>Fire Resistant:</b>	BS 6387 CWZ, BS 8434-1: 2003, BS EN 50200 PH 30
<b>Flame Retardant:</b>	BS EN 50265 1 & 2.1: IEC 60332 Part 1
<b>Low Smoke:</b>	BS EN 50268: IEC 60754
<b>Halogen Free:</b>	BS EN 50267: IEC 60754
<b>Low Toxicity:</b>	BS EN 50267: IEC 60754
<b>Low Corrosivity:</b>	BS EN 50267: IEC 60754
<b>Temperature:</b>	-20°C + 60°C

## Alsecure® NX200 Cable

CSE Cables stock a wide range of fire resistant cables commonly known as 'soft skin' cables. These cables are available in different versions and are designed to carry on functioning even in the event of a fire.

### Cable Application

Alsecure® NX200 is a standard fire resistant cable for fire alarm and emergency lighting installations complying with BS 5839 and BS 5266. Alsecure® NX200 has been designed to be a highly user friendly, high performance Fire Resistant cable. NX200 meets and exceeds requirements of all applicable standards and carry independent third party certification. Alsecure® NX200 is fully LUL and BASEC approved.

To provide the ultimate ease and speed of installation, stripping of both insulation and sheath couldn't be easier. Just lightly ring the sheath and break it away together with the bonded aluminium foil. The most common sizes have no additional binders or loose foils so the silicone conductor insulation can then be stripped off in an instant saving you time and money.

### Nexans Alsecure® NX200 can be used for:

- AC and DV voltages of 300/500V.
- Fire detection and fire alarm critical signal path according to BS 5839-1:2002 + A2:2008 "Standard" application areas
- Voice alarm systems according to BS5839-8:2008
- Emergency lighting systems according to BS5266-1:2005

### Nexans Alsecure® NX200 improved features:

- Speedy stripping and termination
- 120 minute circuit integrity (PH120 to BS EN 50200 & Annex E) > 60 min longer than most other standard fire resistant cables
- Halogen-free, flame retardant, low smoke, good chemical resistance

When the protection of human life and sensitive electronic equipment is paramount, choosing the right materials is essential. As well as assuring the integrity of fire safety systems installing Alsecure® NX200 also limits the effects of toxic fumes and smoke, thus aiding the facilitation of effective escape for people from a fire situation and reducing collateral damage to expensive equipment.



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**4 Conductors +**

Made to order	NX200 19 x 1.5	19	1.5	17.5	510	1	-	-	-	-
Made to order	NX200 7 x 2.5	7	2.5	13.7	310	1	-	-	-	-
	NX200 12 x 2.5	12	2.5	17.9	490	1	-	-	-	-
	NX200 19 x 2.5	19	2.5	20.8	810	1	-	-	-	-

**Rating factor for different ambient temperature**

Ambient Temperature °C	25	30	35	40	45	50	55
Rating Factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76

**Rating factor for groups**

Number of circuits	1	2	3	4	5	6	7
Rating factor	1.00	0.80	0.70	0.65	0.60	0.57	0.54