

**NX100 ALSECURE® PLUS**

(Formerly MX331)

**Type Approved Certificates**

- FSD Fire Service Department
- LPCB Loss Prevention Certification Board (1,5 mm<sup>2</sup> to 630 mm<sup>2</sup>)

**Application**

Fire alarm systems  
emergency lighting.  
Power safety circuits when  
installed in conduits or  
protected trunking

**450/750 V**

**Max core temperature: 90 °C**

**Design**

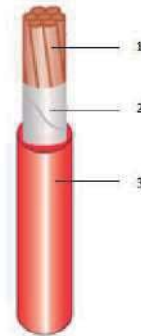
**1. Conductor**

Stranded bare  
class 2 IEC 60228

**2. Mica tape(s)**

**3. Insulation**

Cross-linked  
Halogen free polyolefin



**Core identification**

Colours : red - black - blue -  
brown - grey - yellow - white -  
green/yellow

**Standards**

- BS 6387: 2013
- EN 61034-2: 2005
- EN 50267-2-1: 1999
- IEC 60331-21: 1999



**Flame retardant**

IEC 60332 part 1  
EN 50265 part 1  
BS 4066 part 1



**Fire resistant**

IEC 60331  
BS 6387 cat \*  
CWZ up to 95 mm<sup>2</sup>  
C 120 to 300 mm<sup>2</sup>



**Low smoke**

IEC 61034  
EN 50268  
BS 7622  
NF C 32073



**Halogen free**

IEC 60754-1  
EN 50267  
BS 6425  
NF C 32074



**Low toxicity**

IEC 60754  
EN 50267  
BS 6425  
NF C 32074



**Low corrosivity -20 / + 60 °C**

IEC 60754-2  
EN 50267  
BS 6425  
NF C 32074



Cables (mm <sup>2</sup> )	Approximate overall diameter	Current rating (A)	Voltage drop (V/Axkm)		Weight apporx. (kg/km)
			AC/DC	AC	
	mm (± % 7)		2 cores loaded	3 cores loaded	
1x1,5	3,7	19	31	27	28
1x2,5	4,1	26	19	16	40
1x4	4,7	35	12	10	56
1x6	5,1	45	7,9	6,8	80
1x10	6,3	63	4,7	4,0	125
1x16	7,3	85	2,9	2,5	175
1x25	9,0	111	1,85	1,65	270
1x35	9,7	138	1,35	1,15	360
1x50	11,2	168	0,99	0,87	490
1x70	12,8	214	0,68	0,60	685
1x95	15,0	259	0,49	0,45	940
1x120	16,4	299	0,39	0,37	1170
1x150	18,2	328	0,32	0,30	1410
1x185	20,3	370	0,25	0,26	1785
1x240	23,2	433	0,19	0,21	2330
1x300	25,5	493	0,155	0,185	2925
1x400	28,9	584	0,120	0,170	3800
1x500	32,4	666	0,093	0,160	4810
1x630	36,3	764	0,072	0,150	6130

**Note** Current carrying capacity is given for cables enclosed in conduits on a wall or in trunking at ambient air temperature : 30 °c

For any other laying conditions

Reference should be made to BS 7671



=6x outer diam. Max <sup>(1)</sup>

<sup>(1)</sup> figures to be doubled during installation