

ALSECURE PLUS® NX600

■ Type Approved Certificates

BASEC

LPCB

0.6/1 kV

■ Application

Designed for use in large complex buildings like stadiums, airports, hospitals, hi-rise offices and residential buildings, fully meets requirements to maintain circuit integrity even through the most extreme fire conditions. Built to release low levels of toxic fumes when burning, for use with fire safety engineering systems such as:

- fire alarm systems
- emergency lighting
- other systems which help to ensure the safest evacuation and assist in the firefighting stages of a fire.

Max core temperature : 90°C

■ Design

1 Conductor

Stranded annealed bare copper Class 2

2 Fire Barrier

Mica Tape(s)

3 Insulation

XLPE

4 Inner Layer

Glass Tape

5 Bedding / Inner Sheath

LSZH bedding up to 35 sqmm

LSZH inner sheath ≥ 50 sqmm

6 Armour

Single layer of galvanized steel wires

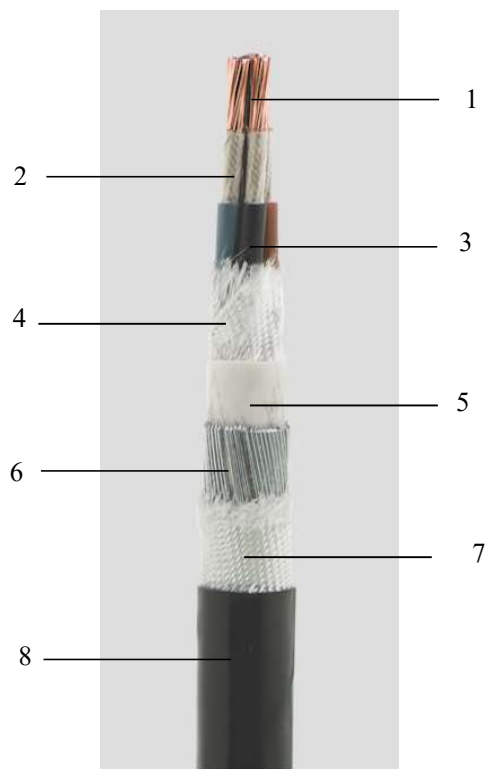
7 Outer Layer

Glass Tape

8 Outer sheath

LSZH

Black



■ Core identification

2x: Brown-Blue

3x: Brown-Black-Grey

4x: Brown-Black-Grey-Blue

■ Standards

BS 7846 - F2 & F120

IEC 60228

IEC 60332-3-24

BS 6387 CAT CWZ

BS 8491 - 120 min

IEC 60331-21

IEC 61034

IEC 60754-1

IEC 60754-2



Cables	Diameter (mm)		Current Ratings (A)			Voltage Drop (V/A/km)	Weight (kg/km)
	Under Armour	Outer	Air (Method E)	Ground (Method D)	Clipped Direct (Method C)	AC	
NX600 2x4 mm2	17,8	23,9	52	43	49	12	950
NX600 2x6 mm2	19,0	25,1	66	53	62	7,9	1100
NX600 2x10 mm2	20,3	26,4	90	71	85	4,7	1200
NX600 2x16 mm2	22,2	28,3	115	91	110	2,9	1400
NX600 2x25 mm2	25,3	31,4	152	116	146	1,90	1800
NX600 2x35 mm2	27,3	34,1	188	139	180	1,35	2250
NX600 3x4 mm2	15,8	23,4	44	36	42	10	950
NX600 3x6 mm2	17,1	24,7	56	44	53	6,8	1100
NX600 3x10 mm2	18,6	25,2	78	58	73	4,0	1200
NX600 3x16 mm2	20,6	27,4	99	75	94	2,5	1500
NX600 3x25 mm2	24,0	31,7	131	96	124	1,65	2000
NX600 3x35 mm2	26,1	34	162	115	154	1,15	2500
NX600 3x50 mm2	25,4	32,7	197	135	187	0,87	2750
NX600 3x70 mm2	28,9	36,4	251	167	238	0,60	3500
NX600 3x95 mm2	32,3	41	304	197	289	0,45	4750
NX600 3x120 mm2	35,6	44,5	353	223	335	0,37	5500
NX600 3x150 mm2	39,2	49,3	406	351	386	0,30	7000
NX600 3x185 mm2	43,1	53,4	463	281	441	0,26	8250
NX600 3x240 mm2	48,0	58,7	546	324	520	0,21	10500
NX600 3x300 mm2	52,8	63,7	628	365	599	0,185	12500
NX600 3x400 mm2	60,0	71,1	728	--	673	0,165	15500
NX600 4x4 mm2	17,1	24,7	44	36	42	10	1100
NX600 4x6 mm2	18,6	26,2	56	44	53	6,8	1200
NX600 4x10 mm2	20,2	27,8	78	58	73	4,0	1500
NX600 4x16 mm2	22,5	29,3	99	75	94	2,5	1700
NX600 4x25 mm2	26,3	34	131	96	124	1,65	2500
NX600 4x35 mm2	28,7	36,6	162	115	154	1,15	3000
NX600 4x50 mm2	27,7	35,2	197	135	187	0,87	3250
NX600 4x70 mm2	31,6	40,3	251	167	238	0,60	4500
NX600 4x95 mm2	35,7	44,6	304	197	289	0,45	5750
NX600 4x120 mm2	39,4	49,5	353	223	335	0,37	7250
NX600 4x150 mm2	43,7	54	406	351	386	0,30	8500
NX600 4x185 mm2	48,1	58,8	463	281	441	0,26	10500
NX600 4x240 mm2	53,9	64,8	546	324	520	0,21	13000
NX600 4x300 mm2	60,6	71,7	628	365	599	0,185	16000
NX600 4x400 mm2	68,9	82,5	728	--	673	0,17	21000

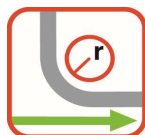
Current rating general conditions

The data are indicated for continuous duty operation and apply to

- Maximum conductor temperature = 90 °C
- Nominal frequencies =50 or 60 Hz
- One cable in free air (on perforated trays)
- Ambient temperature = 30 °C

1,5 to 35 sqmm circular stranded conductors (class 2)

50 ≥ Shaped stranded conductors (class 2)



Minimum Bending Radius

After placed in position, fixed: 8 x D

During installation: 8 x D

Voltage drop

The data are based on cos q=1

And refer to BS 7671

For other laying conditions refer to the above standard