

N2XH-FE180/E90: XLPE/LSHF Unarmoured, Fire Resistant (IEC 60331) LSHF Power – 0.6/1kV



These unarmoured power cables are designed to keep working in the event of a fire making them ideal for powering emergency evacuation and fire suppression equipment such as fire doors, smoke fans and sprinkler systems.

N2XH-FE180/E90 cables meet the requirements of IEC 60331 to provide circuit integrity for 3 hours at 750°C. Applications include tunnels, hospitals and public buildings where evacuation can be slow and services must be maintained. For armoured versions please see page 14.

E30 System integrity cables to DIN 4102 part 12 are also available on request.

Construction

Plain copper wire conductors to IEC 60228 class 1 or 2, Mica tape, XLPE insulation, LSHF filler, LSHF sheath – orange.

Core Identification

2 Core	Brown, blue
3 Core	Brown, black, grey or Brown, blue, green/yellow
4 Core	Brown, black, grey, blue or Brown, blue, black, green/yellow
5 Core	Brown, black, grey, blue, green/yellow
7 Core and above	number coded with a green/yellow

Technical Information

Voltage Rating:	0.6/1kV
Conductor Stranding:	≤ 6 mm ² solid. IEC 60228 class 1 ≥ 10 mm ² stranded. IEC 60228 class 2
Temperature Rating:	-30°C to +70°C fixed -5°C to +70°C for installation
Max Conductor Temp:	+90°C
Bending Radius:	Single core 15 x overall diameter Multicore 12 x overall diameter
Fire Resistant:	IEC 60331
Flame Retardant:	IEC 60332-1-2, IEC 60332-3-24 Cat C / EN 50266-2-4
Smoke Emission:	IEC 61034-2
Halogen Emission:	IEC 60754-1 & 2
Manufactured To:	IEC 60502

N0801004GE



Part No.	Core x Size mm ²	Weight kg/km	O/D mm
N0800102	2 x 1.5	29	11.5
N0800103E	3 G 1.5	43	12.0
N0800104E	4 G 1.5	58	12.1
N0800105E	5 G 1.5	72	12.5
N0800107E	7 G 1.5	101	13.0
N0800112E	12 G 1.5	173	16.5
N0800202	2 x 2.5	48	12.0
N0800203E	3 G 2.5	72	12.5
N0800204E	4 G 2.5	96	13.0
N0800205E	5 G 2.5	120	13.5
N0800402	2 x 4.0	77	13.0
N0800403E	3 G 4.0	115	13.5
N0800404E	4 G 4.0	154	13.0
N0800405E	5 G 4.0	192	14.5
N0800601	1 x 6.0	58	9.0
N0800602	2 x 6.0	115	14.0
N0800603E	3 G 6.0	173	14.5
N0800604E	4 G 6.0	230	15.0
N0800605E	5 G 6.0	288	15.5

Part No.	Core x Size mm ²	Weight kg/km	O/D mm
N0801001	1 x 10	96	10.0
N0801002	2 x 10	192	15.5
N0801003E	3 G 10	288	16.0
N0801004E	4 G 10	384	16.5
N0801005E	5 G 10	480	18.0
N0801601	1 x 16	154	10.5
N0801602	2 x 16	307	17.5
N0801603E	3 G 16	461	18.0
N0801604E	4 G 16	614	18.5
N0801605E	5 G 16	768	20.0
N0802501	1 x 25	240	13.0
N0802502	2 x 25	480	22.0
N0802503	3 x 25	720	23.5
N0802504	4 x 25	960	23.6
N0802505	5 x 25	1200	24.5
N0803501	1 x 35	336	14.0
N0803503	3 x 35	1080	26.0
N0803504	4 x 35	1344	26.4
N0803505	5 x 35	1680	33.5
N0805001	1 x 50	480	15.5
N0805003	3 x 50	1440	29.0
N0805004	4 x 50	1920	29.5
N0807001	1 x 70	672	17.5
N0807003	3 x 70	2016	34.0
N0807004	4 x 70	2688	34.6
N0809501	1 x 95	912	19.5
N0809503	3 x 95	3216	40.0
N0809504	4 x 95	3648	39.0
N0812001	1 x 120	1152	21.0
N0812003	3 x 120	4128	45.0
N0812004	4 x 120	4608	43.5
N0815003	3 x 150	4992	48.5
N0818503	3 x 185	6240	54.0