EN 60332-3-24 NHXH FE180-E30 0.6/1kV Cable - 1.5mm² to 300mm²

Description

EN 60332-3-24 NHXH FE180 is a low-voltage, low-smoke zero-halogen fire-safety and circuit-integrity power cable engineered to maintain electrical functionality during a fire to protect human life and essential infrastructure. The cable features a class one solid or class two stranded bare annealed copper core insulated with a cross-linked halogen-free polymer, which is protected by a high-performance, flame-resistant glass-mica tape or a specialised ceramic compound layer extruded directly over the conductors. Multi-core variants are bound symmetrically with a flame-retardant, halogen-free filler layer in a heavy-duty, thermoplastic polyolefin outer sheath.

This cable complies with EN 60332-3-24 standard for category C bunched flame-spread resistance. It features an insulation integrity rating of FE180, guaranteeing that the cable core insulation will remain intact for at least 3 hours of direct fire exposure under testing standard conditions. It is a low-voltage rated cable of 0.6/1 kV.

Installers must maintain standard minimum bending radius of at least twelve times the overall cable diameter for multi-core configurations and fifteen times the overall diameter for single-core layouts during standard routing and active pulling. The cable is designed strictly for indoor or above-ground external usage. Fire resistant to FE 180 and Circuit Integrity to E30.

Key Features

Voltage Rating
600/1000 Volts

Minimum Bending Radius
Single Core 15 x Overall Diameter
Multicore 12 x Overall Diameter

Flame Retardancy
BS EN/IEC 60332-3-24 (Cat C)

Temperature Limits
Fixed: -5°C to +90°C

Core Colours

3 cores - Green Yellow | Brown | Blue

4 cores - Green Yellow | Brown | Black | Grey

5 cores - Green Yellow | Brown | Black | Grey | Blue

7 core and above - Black with White numbers

Standards

- BS EN/IEC 60228
- BS EN/IEC 60332-3-24
- BS EN/IEC 60331
- DIN VDE 0276-604
- DIN VDE 0266
- DIN VDE 0472-814

Construction

- **Conductor**: Class 1 or 2 Copper
- **Insulation**: Low Smoke Zero Halogen (LSZH)
- **Bedding**: Low Smoke Zero Halogen (LSZH)
- **Outer Sheath**: Low Smoke Zero Halogen (LSZH)
- **Sheath Colour**: Orange

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

EN 60332-3-24 NHXH FE180-E30 0.6/1kV Cable - 1.5mm² to 300mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
FE180E30NHXH2X1/5	1.5	2	10.10	145
FE180E30NHXH3X1/5	1.5	3	10.50	165
FE180E30NHXH4X1/5	1.5	4	11.20	200
FE180E30NHXH5X1/5	1.5	5	12.20	225
FE180E30NHXH7X1/5	1.5	7	13.00	275
FE180E30NHXH10X1/5	1.5	10	16.50	400
FE180E30NHXH12X1/5	1.5	12	16.60	440
FE180E30NHXH19X1/5	1.5	19	19.10	605
FE180E30NHXH24X1/5	1.5	24	22.70	790
FE180E30NHXH30X1/5	1.5	30	23.80	920
FE180E30NHXH2X2/5	2.5	2	11.00	185
FE180E30NHXH3X2/5	2.5	3	11.60	215
FE180E30NHXH4X2/5	2.5	4	12.10	255
FE180E30NHXH5X2/5	2.5	5	13.30	295
FE180E30NHXH7X2/5	2.5	5	14.00	360
FE180E30NHXH12X2/5	2.5	5	18.10	585
FE180E30NHXH19X2/5	2.5	5	21.60	860
FE180E30NHXH24X2/5	2.5	5	25.00	1040
FE180E30NHXH30X2/5	2.5	5	26.30	1250
FE180E30NHXH2X4	4	2	11.60	225
FE180E30NHXH3X4	4	3	12.30	265
FE180E30NHXH4X4	4	4	13.20	330
FE180E30NHXH5X4	4	5	14.20	385
FE180E30NHXH2X6	6	2	12.70	280
FE180E30NHXH3X6	6	3	13.30	345
FE180E30NHXH4X6	6	4	14.50	420
FE180E30NHXH5X6	6	5	16.00	520
FE180E30NHXH2X10	10	2	14.50	390
FE180E30NHXH3X10	10	3	15.60	500
FE180E30NHXH4X10	10	4	16.90	910
FE180E30NHXH5X10	10	5	18.30	760
FE180E30NHXH1X16	16	1	18.60	205
FE180E30NHXH2X16	16	2	17.40	605
FE180E30NHXH3X16	16	3	18.00	770
FE180E30NHXH4X16	16	4	20.10	950
FE180E30NHXH5X16	16	5	22.10	1190
FE180E30NHXH3X25	22.20	3	22.20	755
FE180E30NHXH3X35	24.60	3	25.10	1520

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
FE180E30NHXH1X25	25	1	20.60	305
FE180E30NHXH4X25	25	4	24.10	1460
FE180E30NHXH5X25	25	5	26.60	1770
FE180E30NHXH3X50	27.80	3	27.80	1990
FE180E30NHXH3X70	32.00	3	32.00	2750
FE180E30NHXH1X35	35	1	22.60	415
FE180E30NHXH4X35	35	4	27.00	1900
FE180E30NHXH5X35	35	5	29.80	2340
FE180E30NHXH3X95	36.70	3	36.50	3720
FE180E30NHXH1X50	50	1	26.30	730
FE180E30NHXH4X50	50	4	30.50	2505
FE180E30NHXH5X50	50	5	33.80	3110
FE180E30NHXH1X70	70	1	30.00	750
FE180E30NHXH4X70	70	4	35.20	3495
FE180E30NHXH1X95	95	1	10.10	1010
FE180E30NHXH4X95	95	4	39.90	4735
FE180E30NHXH1X120	120	1	18.70	1255
FE180E30NHXH4X120	120	4	44.50	5885
FE180E30NHXH1X150	150	1	20.40	1535
FE180E30NHXH3X150	150	4	49.20	7205
FE180E30NHXH1X185	185	1	22.70	1905
FE180E30NHXH1X240	240	1	26.40	2520
FE180E30NHXH1X300	300	1	30.00	3400
FE180E30NHXH3X25/16	25/16	3	23.40	1330
FE180E30NHXH3X35/16	35/16	3	25.70	1680
FE180E30NHXH3X50/25	50/25	3	29.10	2250
FE180E30NHXH3X70/35	70/35	3	33.10	3100
FE180E30NHXH3X95/50	95/50	3	38.30	4205
FE180E30NHXH3X120/70	120/70	3	42.40	5330

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