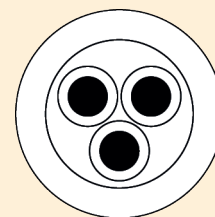
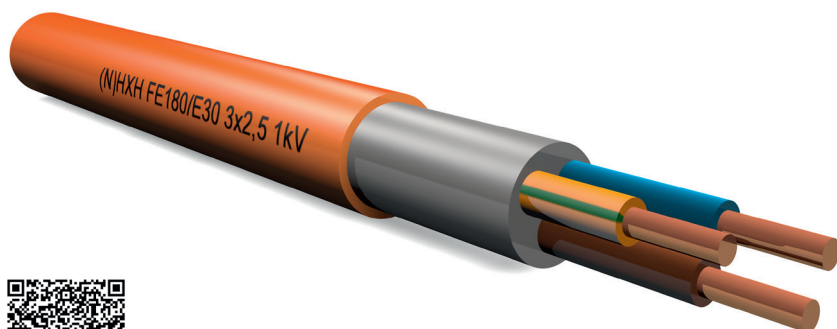


# (N)HXH FE180/E30

## Fire resistant cable

RoHS

CROSS SECTION



Acc. to DIN VDE 0266

## APPLICATION

For wherever particular protection against fire and fire damage is required for people and property and high fail-safe periods have to be complied with, for example at airports, in hospitals and in schools. Suitable for both indoor and outdoor use but not for direct burying in soil or laying in water. The fire-induced smoke formation that makes it impossible to find emergency exits and the emission of toxic gases are prevented. The insulation integrity of at least 180 minutes and functional integrity of at least 30 minutes ensure that fire detection and alarm systems, safety lighting and other backup lighting remain functional.

## SPECIAL FEATURES

**Sheath colour**  
Orange

## STRUCTURE

<b>Conductor</b>	Copper conductor, bare, single or multi-cored according to DIN VDE 0266, flame retardant according to DIN VDE 0472 part 804, functional integrity according to DIN 4102 part 12. Cores stranded together in layers, joint core covering made from fire protection, strip wrapping or filling compound.
<b>Cores</b>	Mica tape wrapping and flame-retardant, cross-linked polymer insulation, core colours according to VDE 0293 NHHX, for fixed installation, 2 cores without green and yellow protective conductor, 3 or more cores with green and yellow protective conductor
<b>Outer sheath</b>	Made from flame-retardant polyolefin acc. to VDE 207 part 24, halogen free

## TECHNICAL DATA

<b>Nominal voltage</b>	600 V/1000 V
<b>Test voltage</b>	4000 V
<b>Operating temperature</b>	-30°C to +70°C
<b>Max. operating temperature</b>	+90°C
<b>Min. installation temperature</b>	-5°C
<b>Max. installation temperature</b>	+50°C
<b>Flame retardancy</b>	According to DIN VDE 0472 part 804
<b>Min. bending radius</b>	With fixed installation: 10 x cable diameter

### TESTS ACCORDING TO DIN VDE 0472 AND IEC:

<b>Flammability</b>	Test method C according to VDE 0472 part 804 and IEC 332-3
<b>Insulation integrity of min. 180 min.</b>	According to VDE 0472 part 814 and IEC 331
<b>Smoke density</b>	According to VDE 0472 part 804 and IEC 332-3
<b>Functional integrity of min. 30 min.</b>	According to VDE 0472 part 804 and IEC 332-3
<b>Halogen free nature</b>	According to VDE 0472 part 815
<b>Corrosiveness of combustion gases</b>	According to VDE 0472 part 813
<b>Smoke density</b>	Test method C according to VDE 0472 part 816 and IEC 1034-1

Product description				Cu weight	Outer Ø (mm)	Weight (kg/km)	Fire load (kWh/m)	Product number
NHXH	1x6 RE	FE180/E30	Halogen free	58.0	9.0	120	0.28	2073001
NHXH	1x10 RE	FE180/E30	Halogen free	96.0	9.0	165	0.28	2073002
NHXH	1x16 RE	FE180/E30	Halogen free	154.0	10.0	230	0.39	2073003
NHXH	1x25 RM	FE180/E30	Halogen free	240.0	11.0	340	0.53	2073004
NHXH	1x35 RM	FE180/E30	Halogen free	336.0	12.0	440	0.58	2073005
NHXH	1x50 RM	FE180/E30	Halogen free	480.0	14.0	620	0.69	2073006
NHXH	1x70 RM	FE180/E30	Halogen free	672.0	16.0	850	0.81	2073007
NHXH	1x95 RM	FE180/E30	Halogen free	912.0	18.0	1100	1.03	2073008
NHXH	1x120 RM	FE180/E30	Halogen free	1152.0	19.0	1350	1.14	2073009
NHXH	1x150 RM	FE180/E30	Halogen free	1440.0	22.0	1650	1.39	2073010
NHXH	1x185 RM	FE180/E30	Halogen free	1776.0	24.0	2100	1.70	2073011
NHXH	1x240 RM	FE180/E30	Halogen free	2304.0	27.0	2600	2.09	2073012
NHXH	1x300 RM	FE180/E30	Halogen free	2880.0	30.0	3300	2.50	2073013
NHXH	2x1.5 RE	FE180/E30	Halogen free	29.0	12.0	210	0.69	2073014
NHXH	2x2.5 RE	FE180/E30	Halogen free	48.0	13.0	250	0.78	2073015
NHXH	2x4 RE	FE180/E30	Halogen free	77.0	14.0	310	0.89	2073016
NHXH	2x6 RE	FE180/E30	Halogen free	115.0	15.0	380	1.00	2073017
NHXH	2x10 RE	FE180/E30	Halogen free	192.0	17.0	510	1.19	2073018
NHXH	2x16 RM	FE180/E30	Halogen free	307.0	19.0	680	1.42	2073019
NHXH	2x25 RM	FE180/E30	Halogen free	418.0	23.0	1050	2.09	2073020
NHXH	3x1.5 RE	FE180/E30	Halogen free	43.0	13.0	210	0.78	2073021
NHXH	3x2.5 RE	FE180/E30	Halogen free	72.0	13.0	230	0.86	2073022
NHXH	3x4 RE	FE180/E30	Halogen free	115.0	15.0	300	1.00	2073023
NHXH	3x6 RE	FE180/E30	Halogen free	173.0	16.0	380	1.08	2073024
NHXH	3x10 RE	FE180/E30	Halogen free	288.0	18.0	500	1.28	2073025
NHXH	3x16 RM	FE180/E30	Halogen free	461.0	20.0	702	1.53	2073026
NHXH	3x25 RM	FE180/E30	Halogen free	720.0	24.0	1200	2.25	2073027
NHXH	3x35 RM	FE180/E30	Halogen free	1008.0	27.0	1520	2.56	2073028
NHXH	3x50 RM	FE180/E30	Halogen free	1440.0	30.0	2100	3.19	2073029
NHXH	3x70 RM	FE180/E30	Halogen free	2016.0	33.0	2700	3.94	2073030
NHXH	3x95 RM	FE180/E30	Halogen free	2736.0	38.0	3700	5.14	2073031
NHXH	3x120 RM	FE180/E30	Halogen free	3456.0	43.0	4600	5.89	2073032
NHXH	3x150 RM	FE180/E30	Halogen free	4320.0	47.0	5800	7.25	2073033
NHXH	3x185 RM	FE180/E30	Halogen free	5328.0	52.0	7200	8.81	2073034
NHXH	3x25/16 RM	FE180/E30	Halogen free	874.0	26.0	1400	2.42	2073035
NHXH	3x35/16 RM	FE180/E30	Halogen free	1162.0	27.0	1600	2.56	2073036
NHXH	3x50/25 RM	FE180/E30	Halogen free	1680.0	31.0	2400	3.19	2073037
NHXH	3x70/35 RM	FE180/E30	Halogen free	2352.0	36.0	3200	3.94	2073038
NHXH	3x95/50 RM	FE180/E30	Halogen free	3216.0	41.0	4400	5.14	2073039
NHXH	3x120/70 RM	FE180/E30	Halogen free	4128.0	46.0	5400	5.89	2073040
NHXH	3x150/70 RM	FE180/E30	Halogen free	4992.0	49.0	6600	7.25	2073041
NHXH	3x185/95 RM	FE180/E30	Halogen free	6240.0	56.0	8300	8.81	2073042
NHXH	3x240/120 RM	FE180/E30	Halogen free	8064.0	64.0	10500	11.70	2073043
NHXH	4x1.5 RE	FE180/E30	Halogen free	58.0	14.0	280	0.89	2073044
NHXH	4x2.5 RE	FE180/E30	Halogen free	96.0	15.0	350	1.00	2073045
NHXH	4x4 RE	FE180/E30	Halogen free	154.0	17.0	440	1.14	2073046
NHXH	4x6 RE	FE180/E30	Halogen free	230.0	18.0	560	1.28	2073047
NHXH	4x10 RE	FE180/E30	Halogen free	384.0	20.0	760	1.50	2073048
NHXH	4x16 RE	FE180/E30	Halogen free	614.0	23.0	1100	1.86	2073049
NHXH	4x25 RM	FE180/E30	Halogen free	960.0	26.0	1600	2.64	2073050
NHXH	4x35 RM	FE180/E30	Halogen free	1344.0	28.0	2100	3.00	2073051
NHXH	4x50 RM	FE180/E30	Halogen free	1920.0	33.0	2900	3.92	2073052
NHXH	4x70 RM	FE180/E30	Halogen free	2688.0	37.0	3900	4.81	2073053
NHXH	4x95 RM	FE180/E30	Halogen free	3648.0	43.0	5200	6.25	2073054
NHXH	4x120 RM	FE180/E30	Halogen free	4608.0	47.0	6300	7.14	2073055
NHXH	5x1.5 RE	FE180/E30	Halogen free	72.0	15.0	330	1.03	2073056
NHXH	5x2.5 RE	FE180/E30	Halogen free	120.0	17.0	410	1.14	2073057
NHXH	5x4 RE	FE180/E30	Halogen free	192.0	18.0	520	1.31	2073058
NHXH	5x6 RE	FE180/E30	Halogen free	288.0	20.0	660	1.47	2073059
NHXH	5x10 RE	FE180/E30	Halogen free	480.0	21.0	950	1.83	2073060
NHXH	5x16 RE	FE180/E30	Halogen free	768.0	23.0	1300	2.17	2073061
NHXH	5x25 RM	FE180/E30	Halogen free	1200.0	29.0	2000	3.14	2073062
NHXH	5x35 RM	FE180/E30	Halogen free	1680.0	32.0	2700	3.75	2073063
NHXH	5x50 RM	FE180/E30	Halogen free	2400.0	35.0	3700	4.75	2073064
NHXH	7x1.5 RE	FE180/E30	Halogen free	101.0	16.0	380	1.17	2073065
NHXH	7x2.5 RE	FE180/E30	Halogen free	168.0	20.0	480	1.31	2073066
NHXH	7x4.0 RE	FE180/E30	Halogen free	269.0	22.0	640	1.50	2073067
NHXH	7x6.0 RE	FE180/E30	Halogen free	403.0	23.0	800	1.70	2073068

Product description				Cu weight	Outer Ø (mm)	Weight (kg/km)	Fire load (kWh/m)	Product number
NHXH	10x1.5 RE	FE180/E30	Halogen free	144.0	20.0	520	1.53	2073069
NHXH	10x2.5 RE	FE180/E30	Halogen free	240.0	25.0	680	1.81	2073070
NHXH	10x4.0 RE	FE180/E30	Halogen free	384.0	27.0	900	2.09	2073071
NHXH	10x6.0 RE	FE180/E30	Halogen free	576.0	29.0	1150	2.36	2073072
NHXH	12x1.5 RE	FE180/E30	Halogen free	173.0	21.0	580	1.70	2073073
NHXH	12x2.5 RE	FE180/E30	Halogen free	288.0	26.0	780	2.00	2073074
NHXH	12x4.0 RE	FE180/E30	Halogen free	464.0	28.0	1050	2.31	2073075
NHXH	12x6.0 RE	FE180/E30	Halogen free	691.0	30.0	1300	2.61	2073076
NHXH	14x1.5 RE	FE180/E30	Halogen free	202.0	22.0	660	1.86	2073077
NHXH	14x2.5 RE	FE180/E30	Halogen free	336.0	27.0	900	2.22	2073078
NHXH	16x1.5 RE	FE180/E30	Halogen free	230.0	23.0	740	2.14	2073079
NHXH	16x2.5 RE	FE180/E30	Halogen free	384.0	28.0	1000	2.42	2073080
NHXH	19x1.5 RE	FE180/E30	Halogen free	274.0	25.0	850	2.36	2073081
NHXH	19x2.5 RE	FE180/E30	Halogen free	456.0	29.0	1100	2.70	2073082
NHXH	21x1.5 RE	FE180/E30	Halogen free	302.0	26.0	900	2.56	2073083
NHXH	21x2.5 RE	FE180/E30	Halogen free	504.0	30.0	1200	2.92	2073084
NHXH	24x1.5 RE	FE180/E30	Halogen free	346.0	29.0	1050	2.86	2073085
NHXH	24x2.5 RE	FE180/E30	Halogen free	576.0	34.0	1200	3.28	2073086
NHXH	27x1.5 RE	FE180/E30	Halogen free	389.0	29.0	1150	3.06	2073087
NHXH	27x2.5 RE	FE180/E30	Halogen free	648.0	34.0	1500	3.53	2073088
NHXH	30x1.5 RE	FE180/E30	Halogen free	432.0	30.0	1200	3.34	2073089
NHXH	30x2.5 RE	FE180/E30	Halogen free	720.0	36.0	1650	3.89	2073090
NHXH	40x1.5 RE	FE180/E30	Halogen free	576.0	35.0	1550	4.48	2073091
NHXH	40x2.5 RE	FE180/E30	Halogen free	960.0	40.0	2200	5.37	2073092