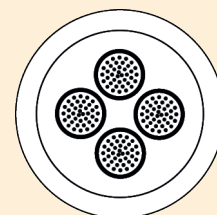
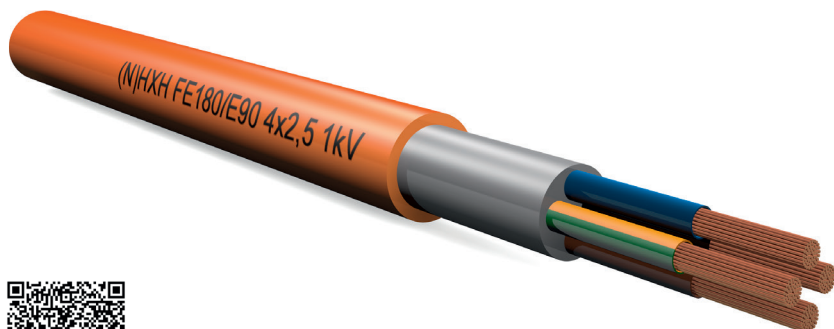


(N)HXH FE180/E90

Fire resistant cable

RoHS

CROSS SECTION



Acc. to DIN VDE 0266

APPLICATION

Safety cables are used wherever particular protection against fire and fire damage is required for people and property and high fail-safe periods have to be complied with, e.g. 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, functional integrity of at least 90 minutes and reliability of over 90 minutes ensure the continued functional capability of water-pressure boosting equipment for supplying fire extinguishing water, ventilation systems, smoke and heat extraction systems, fire brigade lifts etc.

SPECIAL FEATURES

Sheath colour
Orange

STRUCTURE

Conductor	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. Single core wrapped in flame-retardant and temperature-resistant fabric tape, cores stranded together in layers, fire protection wrapping made from heat-resistant special tape, overlapping.
Cores	Mica tape wrapping and flame-retardant, cross-linked polymer insulation, core colours according to VDE 0293 NHXH, for fixed installation, 3 or more cores with green and yellow protective conductor
Outer sheath	Made from flame-retardant polyolefin according to VDE 0207 part 24, halogen free

TECHNICAL DATA

Nominal voltage	600 V/1000 V
Test voltage	4000 V
Operating temperature	-5°C to +70°C
Max. permissible conductor temperature	+90°C
Installation temperature	Min. -5°C/max. +50°C
Flame retardancy	According to DIN VDE 0472 part 804
Min. bending radius	With fixed installation, 15 x cable diameter
TESTS ACCORDING TO DIN VDE 0472 AND IEC:	
Flammability	Test method C according to VDE 0472 part 804 and IEC 332-3
Insulation integrity of min. 180 min.	According to VDE 0472 part 814 and IEC 331
Smoke density	HD 606 and IEC 601034-1, 601034-2 and BS 7622 parts 1+2
Functional integrity of min. 30 min.	According to VDE 0472 part 804 and IEC 332-3
Halogen free nature	According to VDE 0472 part 815
Corrosiveness of combustion gases	According to VDE 0472 part 813
Smoke density	Test method C according to VDE 0472 part 816 and IEC 1034-1
Functional integrity of cable systems	According to DIN 4102 part 12

Product description	Cu weight	Outer Ø (mm)	Weight (kg/km)	Fire load (kWh/m)	Product number	
NH-XH 1x6 RE FE180/E90	Halogen free	58.0	10.0	120	0.28	2073100
NH-XH 1x10 RE FE180/E90	Halogen free	96.0	10.0	165	0.28	2073101
NH-XH 1x16 RE FE180/E90	Halogen free	154.0	11.0	230	0.39	2073102
NH-XH 1x25 RM FE180/E90	Halogen free	240.0	13.0	340	0.53	2073103
NH-XH 1x35 RM FE180/E90	Halogen free	336.0	14.0	440	0.58	2073104
NH-XH 1x50 RM FE180/E90	Halogen free	480.0	16.0	620	0.69	2073105
NH-XH 1x70 RM FE180/E90	Halogen free	672.0	18.0	850	0.81	2073106
NH-XH 1x95 RM FE180/E90	Halogen free	912.0	20.0	1100	1.03	2073107
NH-XH 1x120 RM FE180/E90	Halogen free	1152.0	21.0	1350	1.14	2073108
NH-XH 1x150 RM FE180/E90	Halogen free	1440.0	24.0	1650	1.39	2073109
NH-XH 1x185 RM FE180/E90	Halogen free	1776.0	26.0	2100	1.70	2073110
NH-XH 1x240 RM FE180/E90	Halogen free	2304.0	29.0	2600	2.09	2073111
NH-XH 1x300 RM FE180/E90	Halogen free	2880.0	32.0	3300	2.50	2073112
NH-XH 2x1.5 RE FE180/E90	Halogen free	29.0	14.0	210	0.69	2074113
NH-XH 2x2.5 RE FE180/E90	Halogen free	48.0	15.0	250	0.78	2074114
NH-XH 2x4 RE FE180/E90	Halogen free	77.0	16.0	310	0.89	2074115
NH-XH 2x6 RE FE180/E90	Halogen free	115.0	17.0	380	1.00	2074116
NH-XH 2x10 RE FE180/E90	Halogen free	192.0	19.0	510	1.19	2074117
NH-XH 2x16 RM FE180/E90	Halogen free	307.0	21.0	680	1.42	2074118
NH-XH 2x25 RM FE180/E90	Halogen free	480.0	25.0	1050	2.09	2074119
NH-XH 3x1.5 RE FE180/E90	Halogen free	43.0	15.0	240	0.78	2073121
NH-XH 3x2.5 RE FE180/E90	Halogen free	72.0	15.0	290	0.86	2073122
NH-XH 3x4 RE FE180/E90	Halogen free	115.0	17.0	360	1.00	2073123
NH-XH 3x6 RE FE180/E90	Halogen free	173.0	18.0	450	1.08	2073124
NH-XH 3x10 RE FE180/E90	Halogen free	288.0	20.0	620	1.28	2073125
NH-XH 3x16 RM FE180/E90	Halogen free	461.0	22.0	850	1.53	2073126
NH-XH 3x25 RM FE180/E90	Halogen free	720.0	26.0	1300	2.25	2073127
NH-XH 3x35 RM FE180/E90	Halogen free	1008.0	29.0	1650	2.56	2073128
NH-XH 3x50 RM FE180/E90	Halogen free	1440.0	32.0	2300	3.19	2073129
NH-XH 3x70 RM FE180/E90	Halogen free	2016.0	36.0	3000	3.94	2073130
NH-XH 3x95 RM FE180/E90	Halogen free	2736.0	41.0	4000	5.14	2073131
NH-XH 3x120 RM FE180/E90	Halogen free	3456.0	45.0	4900	5.89	2073132
NH-XH 3x150 RM FE180/E90	Halogen free	4320.0	50.0	6100	7.25	2073133
NH-XH 3x185 RM FE180/E90	Halogen free	5328.0	55.0	7500	8.81	2073134
NH-XH 3x25/16 RM FE180/E90	Halogen free	874.0	28.0	1500	2.42	2073135
NH-XH 3x35/16 RM FE180/E90	Halogen free	1162.0	30.0	1800	2.69	2073136
NH-XH 3x50/25 RM FE180/E90	Halogen free	1680.0	35.0	2600	3.53	2073137
NH-XH 3x70/35 RM FE180/E90	Halogen free	2352.0	39.0	3400	4.31	2073138
NH-XH 3x95/50 RM FE180/E90	Halogen free	3216.0	44.0	4600	5.58	2073139
NH-XH 3x120/70 RM FE180/E90	Halogen free	4128.0	49.0	5700	6.58	2073140
NH-XH 3x150/70 RM FE180/E90	Halogen free	4992.0	52.0	6800	7.14	2073141
NH-XH 3x185/95 RM FE180/E90	Halogen free	6240.0	59.0	8500	9.62	2073142
NH-XH 3x240/120 RM FE180/E90	Halogen free	8064.0	68.0	11000	11.70	2073143
NH-XH 4x1.5 RE FE180/E90	Halogen free	58.0	16.0	280	0.89	2073144
NH-XH 4x2.5 RE FE180/E90	Halogen free	96.0	17.0	350	1.00	2073145
NH-XH 4x4 RE FE180/E90	Halogen free	154.0	19.0	440	1.14	2073146
NH-XH 4x6 RE FE180/E90	Halogen free	230.0	20.0	560	1.28	2073147
NH-XH 4x10 RE FE180/E90	Halogen free	384.0	22.0	760	1.50	2073148
NH-XH 4x16 RE FE180/E90	Halogen free	614.0	25.0	1100	1.86	2073149
NH-XH 4x25 RM FE180/E90	Halogen free	960.0	30.0	1600	2.64	2073150
NH-XH 4x35 RM FE180/E90	Halogen free	1344.0	32.0	2100	3.00	2073151
NH-XH 4x50 RM FE180/E90	Halogen free	1920.0	37.0	2900	3.92	2073152
NH-XH 4x70 RM FE180/E90	Halogen free	2688.0	41.0	3900	4.81	2073153
NH-XH 4x95 RM FE180/E90	Halogen free	3648.0	47.0	5200	6.25	2073154
NH-XH 4x120 RM FE180/E90	Halogen free	4608.0	51.0	6300	7.14	2073155
NH-XH 5x1.5 RE FE180/E90	Halogen free	72.0	17.0	330	1.03	2073156
NH-XH 5x2.5 RE FE180/E90	Halogen free	120.0	19.0	410	1.14	2073157
NH-XH 5x4 RE FE180/E90	Halogen free	192.0	20.0	520	1.31	2073158
NH-XH 5x6 RE FE180/E90	Halogen free	288.0	22.0	660	1.47	2073159
NH-XH 5x10 RE FE180/E90	Halogen free	480.0	24.0	950	1.83	2073160
NH-XH 5x16 RE FE180/E90	Halogen free	768.0	27.0	1300	2.17	2073161
NH-XH 5x25 RM FE180/E90	Halogen free	1200.0	32.0	2000	3.14	2073162
NH-XH 5x35 RM FE180/E90	Halogen free	1680.0	36.0	2700	3.75	2073163
NH-XH 5x50 RM FE180/E90	Halogen free	2400.0	40.0	3700	4.75	2073164
NH-XH 7x1.5 RE FE180/E90	Halogen free	101.0	19.0	380	1.17	2073200
NH-XH 7x2.5 RE FE180/E90	Halogen free	168.0	20.0	480	1.31	2073201
NH-XH 7x4.0 RE FE180/E90	Halogen free	269.0	22.0	640	1.50	2073202
NH-XH 7x6.0 RE FE180/E90	Halogen free	403.0	23.0	800	1.70	2073203

Product description			Cu weight	Outer Ø (mm)	Weight (kg/km)	Fire load (kWh/m)	Product number
NHXH 10 x 1.5 RE FE/180/E90	Halogen free		144.0	23.0	520	1.53	2073204
NHXH 10 x 2.5 RE FE/180/E90	Halogen free		240.0	25.0	680	1.81	2073205
NHXH 10 x 4.0 RE FE/180/E90	Halogen free		384.0	27.0	900	2.09	2073206
NHXH 10 x 6.0 RE FE/180/E90	Halogen free		576.0	29.0	1150	2.36	2073207
NHXH 12 x 1.5 RE FE180/E90	Halogen free		173.0	24.0	580	1.70	2073208
NHXH 12 x 2.5 RE FE180/E90	Halogen free		288.0	26.0	780	2.00	2073209
NHXH 12 x 4.0 RE FE180/E90	Halogen free		461.0	28.0	1050	2.31	2073210
NHXH 12 x 6.0 RE FE180/E90	Halogen free		691.0	30.0	1300	2.61	2073212
NHXH 14 x 1.5 RE FE180/E90	Halogen free		202.0	25.0	660	1.86	2073213
NHXH 14 x 2.5 RE FE180/E90	Halogen free		336.0	27.0	900	2.22	2073214
NHXH 16 x 1.5 RE FE180/E90	Halogen free		230.0	26.0	740	2.14	2073215
NHXH 16 x 2.5 RE FE180/E90	Halogen free		384.0	28.0	1000	2.42	2073216
NHXH 19 x 1.5 RE FE180/E90	Halogen free		274.0	27.0	850	2.36	2073217
NHXH 19 x 2.5 RE FE180/E90	Halogen free		456.0	29.0	1100	2.70	2073218
NHXH 21 x 1.5 RE FE180/E30	Halogen free		302.0	28.0	900	2.56	2073219
NHXH 21 x 2.5 RE FE180/E30	Halogen free		504.0	30.0	1200	2.92	2073220
NHXH 24 x 1.5 RE FE180/E90	Halogen free		346.0	32.0	1050	2.86	2073221
NHXH 24 x 2.5 RE FE180/E90	Halogen free		576.0	34.0	1350	3.28	2073222
NHXH 27 x 1.5 RE FE180/E90	Halogen free		389.0	32.0	1150	3.06	2073223
NHXH 27 x 2.5 RE FE180/E90	Halogen free		648.0	34.0	1500	3.53	2073224
NHXH 30 x 1.5 RE FE180/E90	Halogen free		432.0	33.0	1200	3.34	2073225
NHXH 30 x 2.5 RE FE180/E90	Halogen free		720.0	36.0	1650	3.89	2073226
NHXH 40 x 1.5 RE FE180/E90	Halogen free		576.0	37.0	1550	4.48	2073227
NHXH 40 x 2.5 RE FE180/E90	Halogen free		960.0	40.0	2200	5.37	2073228