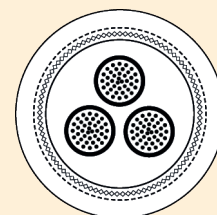
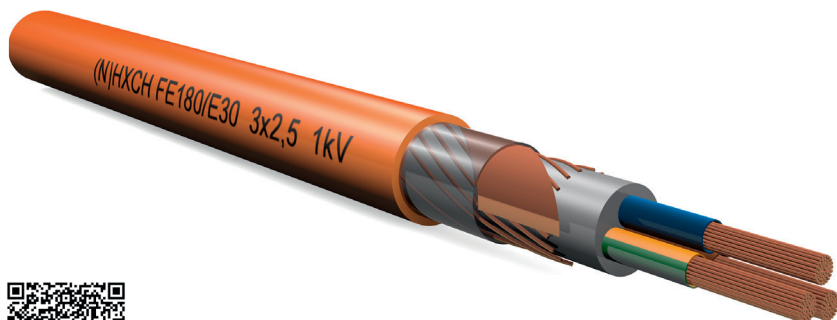


# (N)HXCH FE180/E30

## 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. No toxic gas emissions in the event of fire. Insulation integrity of at least 180 minutes and functional integrity of at least 30 minutes. Reliability of over 30 minutes ensures 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 acc. to DIN VDE 0266, flame retardant acc. to DIN VDE 0472 part 804, functional integrity acc. 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 NHXCH, for fixed installation with a concentric conductor, black, blue, brown, black
<b>Outer sheath</b>	Made from flame-retardant polyolefin according to VDE 0207 part 24, halogen free

## TECHNICAL DATA

<b>Nominal voltage</b>	600 V/1000 V
<b>Test voltage</b>	4000 V
<b>Operating temperature</b>	-5°C to +70°C
<b>Max. permissible conductor 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>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
<b>Functional integrity of cable systems</b>	According to DIN 4102 part 12

Product description	Cu weight	Outer Ø (mm)	Weight (kg/km)	Fire load (kWh/m)	Product number		
NHXCH 2x1.5 RE/1.5	FE180/E30	Halogen free	52.0	15.0	240	0.72	2074001
NHXCH 2x2.5 RE/2.5	FE180/E30	Halogen free	80.0	15.0	290	0.81	2074002
NHXCH 2x4.0 RE/4.0	FE180/E30	Halogen free	123.0	16.0	360	0.92	2074003
NHXCH 2x6.0 RE/6.0	FE180/E30	Halogen free	182.0	18.0	460	1.03	2074004
NHXCH 2x10 RE/10	FE180/E30	Halogen free	312.0	20.0	640	1.22	2074005
NHXCH 2x16 RE/16	FE180/E30	Halogen free	489.0	22.0	900	1.45	2074006
NHXCH 3x1.5 RE/1.5	FE180/E30	Halogen free	66.0	15.0	260	0.78	2074007
NHXCH 3x2.5 RE/2.5	FE180/E30	Halogen free	104.0	16.0	330	0.89	2074008
NHXCH 3x4 RE/4	FE180/E30	Halogen free	161.0	17.0	420	1.00	2074009
NHXCH 3x6 RE/6	FE180/E30	Halogen free	240.0	19.0	540	1.11	2074010
NHXCH 3x10 RE/10	FE180/E30	Halogen free	408.0	21.0	760	1.33	2074011
NHXCH 3x16 RE/16	FE180/E30	Halogen free	643.0	23.0	1100	1.58	2074012
NHXCH 3x25 RM/25	FE180/E30	Halogen free	1003.0	28.0	1650	2.31	2074013
NHXCH 3x35 RM/35	FE180/E30	Halogen free	1402.0	30.0	2200	2.61	2074014
NHXCH 3x50 RM/50	FE180/E30	Halogen free	2000.0	34.0	2900	3.33	2074015
NHXCH 3x70 RM/70	FE180/E30	Halogen free	2796.0	39.0	4000	4.11	2074016
NHXCH 3x95 RM/95	FE180/E30	Halogen free	3791.0	44.0	5300	5.33	2074017
NHXCH 3x120 RM/120	FE180/E30	Halogen free	4786.0	48.0	6500	6.11	2074018
NHXCH 3x25 RM/16	FE180/E30	Halogen free	902.0	28.0	1550	2.31	2074019
NHXCH 3x35 RM/16	FE180/E30	Halogen free	1190.0	30.0	1950	2.61	2074020
NHXCH 3x50 RM/25	FE180/E30	Halogen free	1723.0	34.0	2700	3.33	2074021
NHXCH 3x70 RM/35	FE180/E30	Halogen free	2410.0	38.0	3600	4.11	2074022
NHXCH 3x95 RM/50	FE180/E30	Halogen free	3296.0	44.0	4800	5.33	2074023
NHXCH 3x120 RM/70	FE180/E30	Halogen free	4236.0	47.0	6000	6.11	2074024
NHXCH 3x150 RM/70	FE180/E30	Halogen free	5100.0	52.0	7300	7.50	2074025
NHXCH 4x1.5 RE/1.5	FE180/E30	Halogen free	81.0	17.0	310	0.89	2074026
NHXCH 4x2.5 RE/2.5	FE180/E30	Halogen free	128.0	18.0	380	1.03	2074027
NHXCH 4x4 RE/4	FE180/E30	Halogen free	200.0	20.0	500	1.17	2074028
NHXCH 4x6 RE/6	FE180/E30	Halogen free	297.0	21.0	640	1.31	2074029
NHXCH 4x10 RE/10	FE180/E30	Halogen free	504.0	23.0	900	1.53	2074030
NHXCH 4x16 RE/16	FE180/E30	Halogen free	796.0	26.0	1300	1.89	2074031
NHXCH 4x25 RM/16	FE180/E30	Halogen free	1142.0	31.0	1900	2.69	2074032
NHXCH 4x35 RM/16	FE180/E30	Halogen free	1526.0	33.0	2400	3.06	2074033
NHXCH 4x50 RM/25	FE180/E30	Halogen free	2203.0	38.0	3400	4.00	2074034
NHXCH 4x70 RM/35	FE180/E30	Halogen free	3082.0	42.0	4500	4.89	2074035
NHXCH 4x95 RM/50	FE180/E30	Halogen free	4208.0	49.0	6100	6.44	2074036
NHXCH 4x120 RM/70	FE180/E30	Halogen free	5388.0	53.0	7600	7.36	2074037
NHXCH 4x150 RM/70	FE180/E30	Halogen free	6540.0	60.0	8700	8.97	2074038
NHXCH 7x1.5 RE/2.5	FE180/E30	Halogen free	134.0	19.0	420	1.19	2074060
NHXCH 7x2.5 RE/2.5	FE180/E30	Halogen free	200.0	21.0	540	1.33	2074061
NHXCH 7x4.0 RE/4.0	FE180/E30	Halogen free	315.0	22.0	700	1.53	2074062
NHXCH 10x1.5 RE/2.5	FE180/E30	Halogen free	176.0	24.0	560	1.56	2074063
NHXCH 10x2.5 RE/4.0	FE180/E30	Halogen free	286.0	25.0	760	1.83	2074064
NHXCH 12x1.5 RE/2.5	FE180/E30	Halogen free	205.0	24.0	620	1.72	2074065
NHXCH 12x2.5 RE/4	FE180/E30	Halogen free	334.0	25.0	850	2.03	2074066
NHXCH 14x1.5 RE/2.5	FE180/E30	Halogen free	234.0	25.0	700	1.89	2074067
NHXCH 14x2.5 RE/4.0	FE180/E30	Halogen free	403.0	27.0	950	2.22	2074068
NHXCH 19x1.5 RE/4.0	FE180/E30	Halogen free	320.0	28.0	950	2.39	2074069
NHXCH 19x2.5 RE/6.0	FE180/E30	Halogen free	523.0	30.0	1200	2.72	2074070
NHXCH 24x1.5 RE/6.0	FE180/E30	Halogen free	413.0	32.0	1150	2.89	2074071
NHXCH 24x2.5 RE/10	FE180/E30	Halogen free	696.0	35.0	1550	3.39	2074072
NHXCH 30x1.5 RE/6.0	FE180/E30	Halogen free	499.0	34.0	1350	3.33	2074073