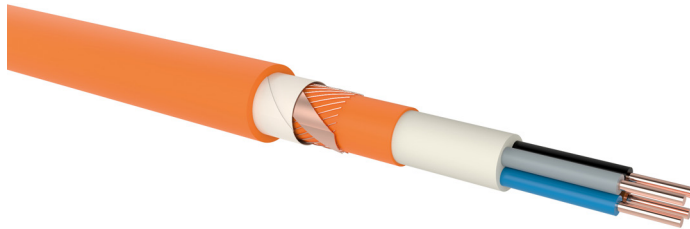


NHXCH FE180/E90

SI/FRNC energy cable, with insulation integrity FE180 and circuit integrity E90, screened

DESIGN



- 1 | Copper conductor, round solid (RE) resp. round stranded (RM)
- 2 | Primary core insulation (silicone rubber)
- 3 | Secondary core insulation (silicone rubber)
- 4 | Inner covering (halogen-free polymer compound)
- 5 | Screen (bare copper wires and counter helix)
- 6 | Taping (halogen-free plastic tape)
- 7 | Sheath (halogen-free polymer compound orange)

APPLICATION

Suitable to protect people and technical building equipment in the event of fire if circuit integrity is required (circuit integrity is only maintained if these cables are installed with specified supporting elements). The cable is not UV-resistant.

TECHNICAL DATA



Standard:
adapted to DIN VDE 0266



Rated voltage:
0.6/1 kV (U₀/U)



Test voltage:
4 kV / 50 Hz



Temperature range:
laying temperature: min. -5 °C
operating temperature: -50 °C up to 90 °C
conductor temperature: max. 90 °C
short circuit temperature: max. 250 °C/5 s



Bending radius (min.):
12 x Ø of cable



Core identification:
HD 308 S2



Fire properties:
EN 60332-1-2: flame retardant
EN 60754-1 and 2: halogen-free; non-corrosive combustion gases
EN 60332-3-22 and 24: reduced flame propagation
EN 61034-2: low smoke emission
IEC 60331-21, DIN VDE 0472-814: insulation integrity FE 180
DIN 4102-12: circuit integrity E90



Certificate:
VDE Germany

Number of cores x nominal cross-section / cross-section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths/packing (m)
NHXCH FE180/E90					
2 x 1.5 RE/1.5	12.1	28	16.1	310	1000 D
3 x 1.5 RE/1.5	12.1	25	16.6	345	1000 D
4 x 1.5 RE/1.5	12.1	25	17.5	385	1000 D
4 x 1.5 RE/16	12.1	25	18.5	400	1000 D
5 x 1.5 RE/2.5	12.1	25	18.6	430	1000 D
7 x 1.5 RE/2.5	12.1	15.5	19.6	495	1000 D
10 x 1.5 RE/2.5	12.1	13	23.2	635	500 D
12 x 1.5 RE/2.5	12.1	12.5	23.8	690	500 D
14 x 1.5 RE/2.5	12.1	11	24.7	760	500 D
19 x 1.5 RE/4	12.1	10.5	27.6	955	500 D

NHXCH FE180/E90

SI/FRNC energy cable, with insulation integrity FE180 and circuit integrity E90, screened

Number of cores x nominal cross-section / cross-section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths/packing (m)
NHXCH FE180/E90					
19 x 1.5 RE/16	12.1	10.5	28.0	975	500 D
24 x 1.5 RE/6	12.1	9.5	31.3	1185	500 D
30 x 1.5 RE/6	12.1	9	33.0	1365	500 D
40 x 1.5 RE/10	12.1	8	37.3	1725	500 D
48 x 1.5 RE/10	12.1	7.5	40.4	2205	500 D
2 x 2.5 RE/2.5	7.41	37	16.9	365	1000 D
3 x 2.5 RE/2.5	7.41	33	17.5	395	1000 D
4 x 2.5 RE/2.5	7.41	33	18.5	445	500 D, 1000 D
7 x 2.5 RE/2.5	7.41	20.5	20.8	455	1000 D
10 x 2.5 RE/4	7.41	17.5	25.4	790	500 D
12 x 2.5 RE/4	7.41	16.5	26.0	880	500 D
14 x 2.5 RE/4	7.41	16	27.2	960	500 D
14 x 2.5 RE/16	7.41	16	27.6	985	500 D
19 x 2.5 RE/6	7.41	14	29.6	1210	500 D
24 x 2.5 RE/10	7.41	12.5	34.3	1535	500 D
30 x 2.5 RE/10	7.41	12	36.5	1785	500 D
3 x 4 RE/4	4.61	43	19.1	475	1000 D
4 x 4 RE/4	4.61	43	20.2	540	1000 D
5 x 4 RE/4	4.61	28	21.5	615	1000 D
3 x 6 RE/6	3.08	54	20.6	670	500 D
4 x 6 RE/6	3.08	54	21.4	675	500 D
3 x 10 RE/10	1.83	75	22.9	900	500 D
4 x 10 RE/10	1.83	75	24.4	1045	500 D
3 x 16 RM/16	1.15	100	24.3	1125	500 D
4 x 16 RE/16	1.15	100	25.9	1290	500 D
3 x 16 RM/120	1.15	100	26.8	1340	500 D
4 x 25 RM/16	0.727	136	31.0	1720	500 D
4 x 50 RM/25	0.387	201	38.6	3275	500 D
4 x 70 RM/35	0.255	255	44.0	4355	500 D
4 x 95 RM/50	0.193	314	49.9	5875	500 D
4 x 120 RM/70	0.153	364	53.7	7260	300 D
3 x 150 RM/70	0.124	416	53.0	7105	300 D
4 x 150 RM/70	0.124	416	58.0	8660	300 D
4 x 240 RM/120	0.075	380	72.7	13855	300 D
5 x 240 RM/120	0.075	466	80.3	16670	300 D

Technical changes reserved. All figures are therefore without guarantee.

19.8.2022, 13:30