

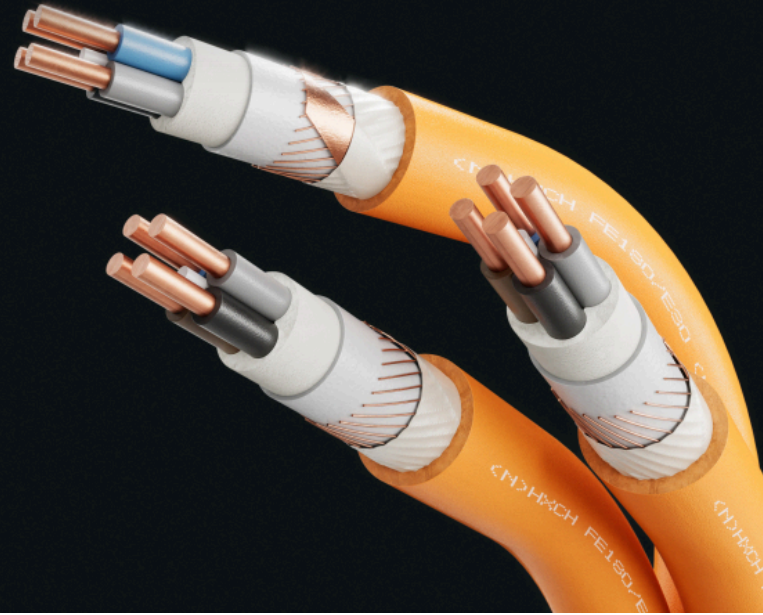


(N)HXCH FE180/E90

SiR/FRNC halogen-free energy cable with insulation integrity and circuit integrity, screened VDE Reg. No. K054

SAFETY CABLES WITH CIRCUIT INTEGRITY

These cables are intended for the stationary distribution of electrical energy in dry or damp premises and for fixed installations in air or concrete. Suitable for hotels, hospitals, underground railways, airports etc. to protect people and technical building equipment in the event of fire.. Not allowed for installations underground or in water. These cables are not UV-protected.



TECHNICAL DATA



Standard

adapted to DIN VDE 0266
with reference to:
DIN VDE 0276-604, part 0, 1 and 5G
HD 604 5H
DIN VDE 0276-627, part 1 and 7H



Rated Voltage

0,6/1 kV



Test Voltage

core/core 4 kV / 50 Hz



Bending radius (min.)

12 x ϕ of cable



Core identification

HD 308 S2



Fire properties

EN 60332-1-2: flame retardant
EN 60754-2: halogen-free, non-corrosive combustion gases
EN IEC 60332-3-24: reduced flame propagation
EN 61034-2: low smoke emission
DIN VDE 0472-814: insulation integrity FE180
DIN 4102-12: circuit integrity E90



Certificate

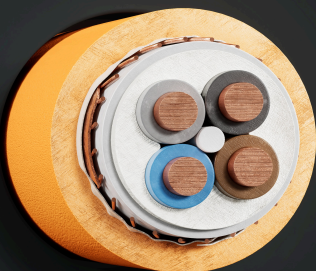
VDE Germany
VDE Reg. No. K054



Temperature range

Laying temperature: min. -5°C
Operating temperature: -30°C up to 90°C
Conductor temperature: max. 90°C
Short circuit temperature: max. 250°C

DESIGN



- 1 Copper conductor, round solid (RE)
- 2 Core insulation (silicone rubber)
- 3 Inner covering (halogen-free tape and halogen free polymer compound)
- 4 Inner sheath (halogen-free polymer compound)
- 5 Concentric screen (bare copper wires applied with changing direction of lay) and counter helix (copper tape)
- 6 Sheath (halogen-free polymer compound, orange)

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 appr. (mm)	Total weight appr. (kg/km)
2 x 1.5 RE / 1.5	12.1	29	10.8	159
3 x 1.5 RE / 1.5	12.1	24	11.2	178
4 x 1.5 RE / 1.5	12.1	24	12.1	209
5 x 1.5 RE / 1.5	12.1	24	12.9	236
7 x 1.5 RE / 2.5	12.1	16	13.9	299
10 x 1.5 RE / 2.5	12.1	13	17.0	421
12 x 1.5 RE / 2.5	12.1	13	17.4	458
19 x 1.5 RE / 2.5	12.1	11	19.8	626
24 x 1.5 RE / 6	12.1	10	23.7	857
30 x 1.5 RE / 6	12.1	8	24.8	975
40 x 1.5 RE / 10	12.1	8	28.1	1262
52 x 1.5 RE / 10	12.1	8	31.2	1563
61 x 1.5 RE / 10	12.1	7	33.2	1789
2 x 2.5 RE / 2.5	7.41	38	12.1	215
3 x 2.5 RE / 2.5	7.41	32	12.6	244
4 x 2.5 RE / 2.5	7.41	32	13.6	287
5 x 2.5 RE / 2.5	7.41	32	14.5	328
7 x 2.5 RE / 2.5	7.41	21	15.7	405
10 x 2.5 RE / 4	7.41	18	19.9	593
12 x 2.5 RE / 4	7.41	17	20.6	660
19 x 2.5 RE / 4	7.41	14	23.7	927
24 x 2.5 RE / 10	7.41	13	27.7	1236
30 x 2.5 RE / 10	7.41	10	29.2	1430
40 x 2.5 RE / 10	7.41	10	32.5	1804
52 x 2.5 RE / 10	7.41	10	36.4	2270
61 x 2.5 RE / 10	7.41	9	38.3	2565
2 x 4 RE / 4	4.61	51	14.0	289
3 x 4 RE / 4	4.61	42	14.6	331
4 x 4 RE / 4	4.61	42	15.8	391
5 x 4 RE / 4	4.61	42	17.0	456
2 x 6 RE / 6	3.08	64	15.6	385
3 x 6 RE / 6	3.08	53	16.2	445
4 x 6 RE / 6	3.08	53	17.5	528
5 x 6 RE / 6	3.08	53	19.0	617
2 x 10 RE / 10	1.83	86	18.8	583
3 x 10 RE / 10	1.83	74	19.6	683
4 x 10 RE / 10	1.83	74	21.2	813
5 x 10 RE / 10	1.83	74	23.0	960



System / System Manufacturer	System identification	Classification	Range	Distance (a) /Width (b) / Load (g)	AbP number	Laying type No.
OBO Bettermann	RKSM 630 + AW55/31	E90	n x ≥ 1.5/1.5	a = 1500 mm b = 300 mm g = 20 kg/m	P-MPA-E-23-003	2.1
OBO Bettermann	2056/M	E90	n x ≥ 1.5/1.5	a = 800 mm	P-MPA-E-23-003	8.1
Niedax	SHS15	E90	n x = 1.5/1.5	a = 600 mm g = 3 kg/m	P-MPA-E-23-003	7.1
Niedax	Bügeschellen B	E90	n x ≥ 1.5/1.5	a = 800 mm	P-MPA-E-23-003	9.1
Niedax	Abstandschelle SAS	E90	n x ≥ 1.5/1.5	a = 800 mm	P-MPA-E-23-003	9.2

CONTACT PERSON

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