

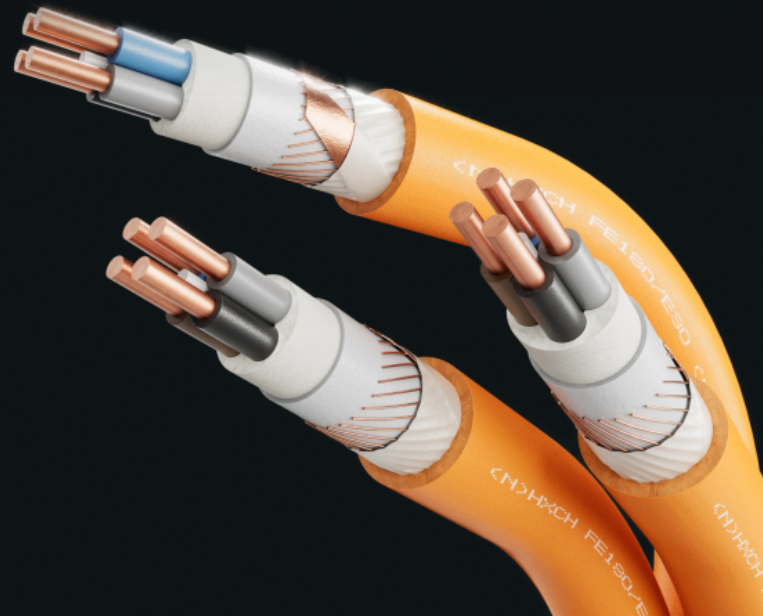


(N)HXCH FE180/E30-E60

SiR/FRNC halogen-free energy cable with insulation integrity and circuit integrity, screened

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
HD 604.5H
DIN VDE 0276-604, part 0, 1 and 5G
DIN VDE 0276-627, part 1 and 7H



Certificate

VDE Germany
VDE Reg. No. K011



Test Voltage

core/core 4 kV / 50 Hz



Rated Voltage

0.6/1 kV



Bending radius (min.)

12 x Ø of cable



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: E30-E60



Core identification

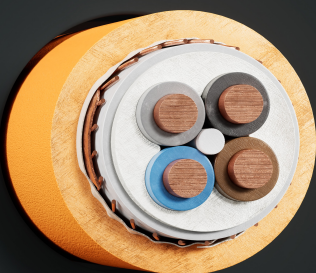
HD 308 S2



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

DESIGN



- 1 Copper conductor, round solid (RE) resp. round stranded (RM)
- 2 Core insulation (silicone rubber)
- 3 Inner covering (halogen-free tape and halogen free polymer compound)
- 4 Concentric screen (bare copper wires), counter helix (copper tape) and halogen-free plastic tape
- 5 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	28	14.0	249
3 x 1.5 RE / 1.5	12.1	25	14.5	274
4 x 1.5 RE / 1.5	12.1	25	15.4	309
5 x 1.5 RE / 1.5	12.1	16	16.4	348
7 x 1.5 RE / 2.5	12.1	16	17.4	420
10 x 1.5 RE / 2.5	12.1	13	20.9	572
12 x 1.5 RE / 2.5	12.1	13	21.4	618
14 x 1.5 RE / 2.5	12.1	12	22.3	676
19 x 1.5 RE / 4	12.1	11	24.3	831
24 x 1.5 RE / 6	12.1	10	28.5	1091
30 x 1.5 RE / 6	12.1	9	30.0	1245
40 x 1.5 RE / 10	12.1	8	33.9	1590
2 x 2.5 RE / 2.5	7.41	37	14.8	296
3 x 2.5 RE / 2.5	7.41	33	15.4	330
4 x 2.5 RE / 2.5	7.41	33	16.3	376
5 x 2.5 RE / 2.5	7.41	22	17.4	427
7 x 2.5 RE / 2.5	7.41	21	18.6	513
10 x 2.5 RE / 4	7.14	18	23.0	732
12 x 2.5 RE / 4	7.14	17	23.6	798
14 x 2.5 RE / 6	7.14	15	24.6	898
19 x 2.5 RE / 6	7.14	14	26.9	1103
24 x 2.5 RE / 10	7.14	13	31.5	1443
30 x 2.5 RE / 10	7.14	12	33.2	1657
40 x 2.5 RE / 10	7.14	11	37.0	2084
2 x 4 RE / 4	4.61	49	16.2	362
3 x 4 RE / 4	4.61	43	16.9	409
4 x 4 RE / 4	4.61	43	18.0	471
5 x 4 RE / 4	4.61	28	19.2	537
7 x 4 RE / 4	4.61	27	20.5	651
10 x 4 RE / 6	4.61	27	24.7	930
12 x 4 RE / 6	4.61	27	25.4	1022
14 x 4 RE / 6	4.61	27	26.5	1129
19 x 4 RE / 10	4.61	25	29.6	1452
2 x 6 RE / 6	3.08	62	17.2	445
3 x 6 RE / 6	3.08	54	18.0	510
4 x 6 RE / 6	3.08	54	19.1	591
5 x 6 RE / 6	3.08	36	20.5	678
2 x 10 RE / 10	1.83	85	19.2	600
3 x 10 RE / 10	1.83	75	20.1	701
4 x 10 RE / 10	1.83	75	21.4	824
5 x 10 RE / 10	1.83	49	23.1	962
2 x 16 RM / 16	1.15	113	21.5	834
3 x 16 RM / 16	1.15	100	22.5	992
4 x 16 RM / 16	1.15	100	24.2	1175
5 x 16 RM / 16	1.15	65	26.1	1380
1 x 25 RM / 16	0.727	152	15.2	535
3 x 25 RM / 16	0.727	136	26.5	1388
4 x 25 RM / 16	0.727	136	28.6	1670
5 x 25 RM / 16	0.727	90	31.2	1997
1 x 35 RM / 16	0.524	217	16.4	640
3 x 35 RM / 16	0.524	165	28.9	1733
4 x 35 RM / 16	0.524	165	31.3	2117



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)
5 x 35 RM / 16	0.524	165	34.3	2558
1 x 50 RM / 16	0.387	265	18.2	786
3 x 50 RM / 25	0.387	201	32.8	2326
4 x 50 RM / 25	0.387	201	35.9	2855
5 x 50 RM / 25	0.387	201	39.4	3441
3 x 70 RM / 35	0.268	255	38.1	3171
4 x 70 RM / 35	0.268	255	41.6	3902
5 x 70 RM / 35	0.268	255	45.6	4707
3 x 95 RM / 50	0.193	314	43.0	4261
4 x 95 RM / 50	0.193	314	47.1	5266
5 x 95 RM / 50	0.193	314	51.8	6366
3 x 120 RM / 70	0.153	364	46.1	5277
4 x 120 RM / 70	0.153	364	50.6	6526
5 x 120 RM / 70	0.153	364	55.9	7901
1 x 150 RM / 16	0.124	557	25.7	1828
3 x 150 RM / 70	0.124	416	50.7	6338
4 x 150 RM / 70	0.124	416	55.8	7880
5 x 150 RM / 70	0.124	416	61.5	9534
3 x 185 RM / 95	0.099	480	56.5	8001
4 x 185 RM / 95	0.099	480	62.1	9896
4 x 240 RM / 120	0.075	565	69.5	12673



System / System Manufacturer	System identification	Classification	Range	Distance (a) /Width (b) / Load (g)	AbP number	Laying type No.
Normtrag	Abstandschelle	E60	$n \times \geq 1.5/1.5$	$a \approx 300 \text{ mm}$	P-MPA-E-23-003	1.3
Normtrag	Bügelschelle	E60	$n \times \geq 1.5/1.5$	$a \approx 300 \text{ mm}$	P-MPA-E-23-003	1.4
Normtrag	Bügelschelle mit LW	E60	$n \times \geq 1.5/1.5$	$a \approx 600 \text{ mm}$	P-MPA-E-23-003	1.5
Normtrag	Rinne	E30	$n \times \geq 1.5/1.5$	$a \approx 1200 \text{ mm}$ $b \approx 300 \text{ mm}$ $g \approx 10 \text{ kg/m}$	P-MPA-E-23-003	1.2
Normtrag	Leiter	E30	$n \times \geq 1.5/1.5$	$a \approx 1200 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-MPA-E-23-003	1.1
OBO Bettermann	RKSM 630 + AW55/31	E60	$n \times \geq 1.5/1.5$	$a \approx 1500 \text{ mm}$ $b \approx 300 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-MPA-E-23-003	2.1
OBO Bettermann	RKSM 640 + AW55/41	E60	$n \times \geq 1.5/1.5$	$a \approx 1500 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-MPA-E-23-003	2.2
OBO Bettermann	GRM 55/ + AW15/ (AWG15/)	E60	$n \times \geq 1.5/1.5$	$a \approx 1500 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 15 \text{ kg/m}$	P-MPA-E-23-003	5.1
OBO Bettermann	2031-M/15	E60	$n \times \geq 1.5/1.5 - n \times \leq 25$	$a \approx 600 \text{ mm}$ $g \approx 2 \text{ kg/m}$	P-MPA-E-23-003	6.1
OBO Bettermann	2031-M/30	E60	$n \times \geq 1.5/1.5$	$a \approx 600 \text{ mm}$ $g \approx 3 \text{ kg/m}$	P-MPA-E-23-003	6.2
OBO Bettermann	2031-M/70	E60	$n \times \geq 1.5/1.5$	$a \approx 800 \text{ mm}$ $g \approx 6 \text{ kg/m}$	P-MPA-E-23-003	6.3
OBO Bettermann	2056/M	E60	$n \times \geq 1.5/1.5$	$a \approx 800 \text{ mm}$	P-MPA-E-23-003	8.1
OBO Bettermann	732/733	E60	$n \times \geq 1.5/1.5$	$a \approx 800 \text{ mm}$	P-MPA-E-23-003	8.2
OBO Bettermann	Stahlpanzerrohr M	E30	$n \times \geq 1.5/1.5$	$a \approx 1500 \text{ mm}$	P-MPA-E-23-003	11.1
Niedax	RLVC 60.300 + KTAS300	E60	$n \times \geq 1.5/1.5$	$a \approx 1500 \text{ mm}$ $b \approx 300 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-MPA-E-23-003	3.1
Niedax	RLVC 60.400 + KTAS400	E60	$n \times \geq 1.5/1.5$	$a \approx 1500 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-MPA-E-23-003	3.2
Niedax	MTC 54.400 + KTAS400	E60	$n \times \geq 1.5/1.5$	$a \approx 1500 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 15 \text{ kg/m}$	P-MPA-E-23-003	4.2
Niedax	SHS15	E60	$n \times \geq 1.5/1.5 - n \times \leq 25$	$a \approx 600 \text{ mm}$ $g \approx 3 \text{ kg/m}$	P-MPA-E-23-003	7.1
Niedax	SHS30	E60	$n \times \geq 1.5/1.5$	$a \approx 600 \text{ mm}$ $g \approx 3 \text{ kg/m}$	P-MPA-E-23-003	7.2
Niedax	SHS80	E30	$n \times \geq 1.5/1.5$	$a \approx 800 \text{ mm}$ $g \approx 6 \text{ kg/m}$	P-MPA-E-23-003	7.3
Niedax	Bügelschellen B	E60	$n \times \geq 1.5/1.5$	$a \approx 800 \text{ mm}$	P-MPA-E-23-003	9.1
Niedax	Abstandschelle SAS	E60	$n \times \geq 1.5/1.5$	$a \approx 800 \text{ mm}$	P-MPA-E-23-003	9.2
Niedax	LLK	E60	$n \times \geq 1.5/1.5$	$a \approx 500 \text{ mm}$ $g \approx 3 \text{ kg/m}$	P-MPA-E-23-003	12.1
Niedax	RLVC 60.300 E5 + TAH	E30	$n \times \geq 1.5/1.5$	$a \approx 1500 \text{ mm}$ $b \approx 300 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-MPA-E-23-003	3.3
Niedax	MTC 54.200 + KTAS200	E30	$n \times \geq 1.5/1.5$	$a \approx 1500 \text{ mm}$ $b \approx 200 \text{ mm}$ $g \approx 15 \text{ kg/m}$	P-MPA-E-23-003	4.1

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