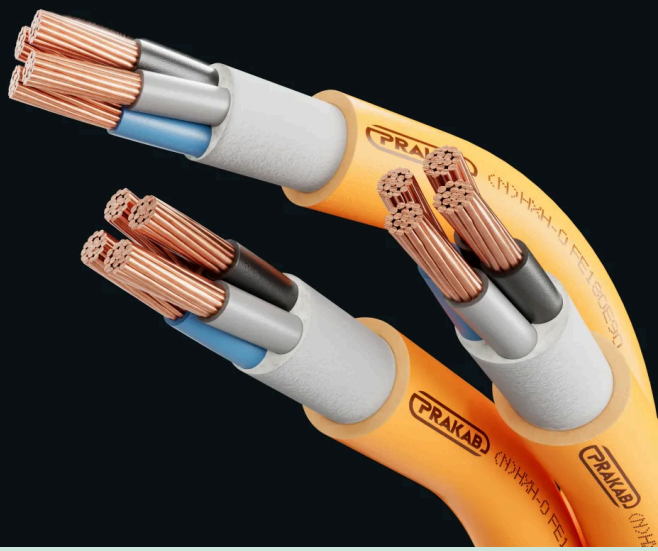
We Make Modern Life Possible.

SAFETY CABLES

(N)HXH FE180/E90 (K054)



Halogen-free energy cable with insulation integrity and circuit integrity VDE Reg. No. K054

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. K054

Test Voltage
core/core 4 kV / 50 Hz

Rated Voltage
0,6/1 kV

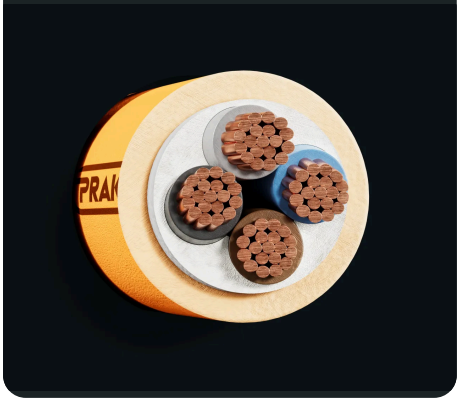
Bending radius (min.)
12 x Ø of cable

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
IEC 60331-21: insulation integrity FE180
DIN 4102-12: circuit integrity E90

Core identification
HD 308 S2

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) orround stranded (RM)
2. Core insulation (silicone rubber)
3. Inner covering (halogen-free tape or halogen free polymer compound)
4. Sheath (halogen-free polymer compound, orange)

Number of cores x nominal cross-section (mm²)	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	12.1	29	9.3	126
3 x 1.5 RE	12.1	24	9.9	147
4 x 1.5 RE	12.1	24	10.7	174
5 x 1.5 RE	12.1	24	11.5	202
7 x 1.5 RE	12.1	16	12.6	254
10 x 1.5 RE	12.1	13	15.8	379
12 x 1.5 RE	12.1	13	16.3	414
14 x 1.5 RE	12.1	12	17.2	466
16 x 1.5 RE	12.1	12	18.0	517
19 x 1.5 RE	12.1	11	19.1	591
21 x 1.5 RE	12.1	10	20.0	630
24 x 1.5 RE	12.1	10	22.3	777
30 x 1.5 RE	12.1	8	23.5	894
40 x 1.5 RE	12.1	8	28.5	1298
52 x 1.5 RE	12.1	8	31.8	1626
61 x 1.5 RE	12.1	7	33.9	1865
2 x 2.5 RE	7.41	38	10.2	161
3 x 2.5 RE	7.41	32	10.8	190
4 x 2.5 RE	7.41	32	11.6	225
5 x 2.5 RE	7.41	32	12.8	269
7 x 2.5 RE	7.41	20	13.9	343
10 x 2.5 RE	7.41	17	17.6	510
12 x 2.5 RE	7.41	16	18.1	562
14 x 2.5 RE	7.41	16	19.1	635
16 x 2.5 RE	7.41	15	20.0	707
19 x 2.5 RE	7.41	14	21.2	811
21 x 2.5 RE	7.41	13	22.5	878
24 x 2.5 RE	7.41	12	24.8	1063
30 x 2.5 RE	7.41	10	28.3	1396
40 x 2.5 RE	7.41	10	31.5	1760
52 x 2.5 RE	7.41	10	35.4	2235
61 x 2.5 RE	7.41	9	37.7	2569
2 x 4 RE	4.61	51	12.2	233
3 x 4 RE	4.61	42	12.8	275
4 x 4 RE	4.61	42	14.0	334
5 x 4 RE	4.61	42	15.2	391
2 x 6 RE	3.08	63	13.1	291
3 x 6 RE	3.08	54	14.1	356
4 x 6 RE	3.08	54	15.2	429
5 x 6 RE	3.08	54	16.7	514
6 x 6 RE	3.08	34	18.3	615
7 x 6 RE	3.08	34	18.3	668
2 x 10 RE	1.83	86	15.1	418
3 x 10 RE	1.83	74	16.2	520

Number of cores x nominal cross-section (mm²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
4 x 10 RE	1.83	74	17.8	642
5 x 10 RE	1.83	74	19.6	778
1 x 16 RM	1.15	131	9.7	213
2 x 16 RE	1.15	113	17.4	588
2 x 16 RM	1.15	113	17.9	611
3 x 16 RE	1.15	98	18.4	732
3 x 16 RM	1.15	98	19.2	764
4 x 16 RE	1.15	98	20.2	911
4 x 16 RM	1.15	98	21.4	972
5 x 16 RE	1.15	98	22.4	1118
5 x 16 RM	1.15	98	23.2	1154
1 x 25 RM	0.727	177	11.3	313
2 x 25 RM	0.727	133	21.6	924
3 x 25 RM	0.727	133	23.2	1164
4 x 25 RM	0.727	133	25.4	1447
5 x 25 RM	0.727	133	30.2	1935
1 x 35 RM	0.524	217	12.8	422
3 x 35 RM	0.524	162	28.5	1713
4 x 35 RM	0.524	162	31.1	2113
5 x 35 RM	0.524	162	34.2	2575
1 x 50 RM	0.387	265	14.5	557
3 x 50 RM	0.387	197	31.9	2215
4 x 50 RM	0.387	197	35.1	2755
5 x 50 RM	0.387	197	38.7	3360
1 x 70 RM	0.268	336	16.6	770
3 x 70 RM	0.268	250	36.7	3049
4 x 70 RM	0.268	250	40.4	3801
5 x 70 RM	0.268	250	44.5	4636
1 x 95 RM	0.193	415	18.9	1049
4 x 95 RM	0.193	308	45.6	5066
5 x 95 RM	0.193	308	51.5	6354
1 x 120 RM	0.153	485	20.6	1299
3 x 120 RM	0.153	359	45.0	4960
4 x 120 RM	0.153	359	50.0	6262
1 x 150 RM	0.124	557	22.5	1582
3 x 150 RM	0.124	412	49.5	6049
4 x 150 RM	0.124	412	55.3	7702
1 x 185 RM	0.099	646	24.6	1950
4 x 185 RM	0.099	475	60.7	9466
1 x 240 RM	0.075	774	27.8	2537
4 x 240 RM	0.075	564	68.2	11965

System / System Manufacturer	System identification	Classification	Range	Distance (a) /Width (b) / Load (g)	AbP number	AbP part no.
Normtrag	Leiter	E60	n x ≥ 1.5	a ≤ 1200 mm b = 400 mm g ≤ 20 kg/m	ABP_P-MPA-E-23-003	1.1
Normtrag	Rinne	E60	n x ≥ 1.5	a ≤ 1200 mm b = 300 mm g ≤ 10 kg/m	ABP_P-MPA-E-23-003	1.2
Normtrag	Abstandschelle	E60	n x ≥ 1.5	a ≤ 300 mm	ABP_P-MPA-E-23-003	1.3
Normtrag	Bügelschelle	E30	n x ≥ 1.5	a ≤ 300 mm	ABP_P-MPA-E-23-003	1.4
Normtrag	Bügelschelle mit Langwanne	E60	n x ≥ 1.5	a ≤ 600 mm	ABP_P-MPA-E-23-003	1.5
OBO Bettermann	Rinne RKSM 630 + AW55/31	E90	n x ≥ 1.5	a ≤ 1500 mm b = 300 mm g ≤ 20 kg/m	P-MPA-E-23-003	2.1
OBO Bettermann	Rinne RKSM 640 + AW55/41	E90	n x ≥ 1.5	a ≤ 1500 mm b = 400 mm g ≤ 20 kg/m	P-MPA-E-23-003	2.2
OBO Bettermann	2056/M	E90	n x ≥ 1.5	a ≤ 800 mm	P-MPA-E-23-003	8.1
OBO Bettermann	732/733	E90	n x ≥ 1.5	a ≤ 800 mm	P-MPA-E-23-003	8.2
Niedax	Bügelschellen B	E90	n x = 1.5	a ≤ 800 mm	P-MPA-E-23-003	9.1
Niedax	Abstandschelle SAS	E90	n x ≥ 1.5	a ≤ 800 mm	P-MPA-E-23-003	9.2
OBO Bettermann	Sammelhalter 2031-M/70	E30	n x ≥ 1.5	a ≤ 800 mm	P-MPA-E-23-003	6.3
OBO Bettermann	Gitterrinne GRM 55/...	E60	n x ≥ 1.5	a ≤ 1500 mm b = 400 mm g ≤ 15 kg/m	comming soon	
OBO Bettermann	Sammelhalter 2031-M/15	E60	n x 1.5 – 25	a ≤ 600 mm	comming soon	
OBO Bettermann	Sammelhalter 2031-M/30	E60	n x ≥ 1.5	a ≤ 600 mm	comming soon	
OBO Bettermann	Kabelklemmer 2034M	E90	n x 1.5	a ≤ 500 mm	comming soon	

Technical changes reserved. All figures are therefore without guarantee.



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