We Make Modern
Life Possible.

SAFETY CABLES

NHXH FE180/E90

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

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

Certificate
VDE Germany

Test Voltage
4 kV

Rated Voltage
0.6/1 kV (Uo/U)

Bending radius (min.)
15 x Ø des Kabels (einadrig)
12 x Ø des Kabels (mehradrig)

Fire properties
DIN 4102-12: circuit integrity E90

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



Number of cores x nominal cross-section (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	12.1	28	13.0	185
3 x 1,5 RE	12.1	24	13.5	210
4 x 1,5 RE	12.1	24	14.4	240
5 x 1,5 RE	12.1	16	15.5	280
6 x 1,5 RE	12.1	16	16.5	330
7 x 1,5 RE	12.1	16	17.0	345
8 x 1,5 RE	12.1	14	18.9	390
10 x 1,5 RE	12.1	13	20.1	465
12 x 1,5 RE	12.1	13	20.7	520
14 x 1,5 RE	12.1	12	21.5	655
16 x 1,5 RE	12.1	12	22.6	725
19 x 1,5 RE	12.1	11	23.6	810
24 x 1,5 RE	12.1	10	27.4	895
30 x 1,5 RE	12.1	9	28.9	1180
40 x 1,5 RE	12.1	8	32.7	1320
2 x 2,5 RE	7.41	37	13.8	225
3 x 2,5 RE	7.41	32	14.4	255
4 x 2,5 RE	7.41	32	15.4	300
5 x 2,5 RE	7.41	22	16.5	350
7 x 2,5 RE	7.41	21	17.7	445
8 x 2,5 RE	7.41	18	20.3	495
10 x 2,5 RE	7.41	18	21.7	645
12 x 2,5 RE	7.41	17	22.3	745
14 x 2,5 RE	7.41	16	23.3	750
16 x 2,5 RE	7.41	15	24.5	925
19 x 2,5 RE	7.41	14	25.6	1040
24 x 2,5 RE	7.41	13	30.0	1175
30 x 2,5 RE	7.41	12	32.0	1390
40 x 2,5 RE	7.41	11	35.9	1735
2 x 4 RE	4.61	49	14.7	270
3 x 4 RE	4.61	42	15.4	315
4 x 4 RE	4.61	42	16.5	375
5 x 4 RE	4.61	28	17.8	465
7 x 4 RE	4.61	27	19.1	555
10 x 4 RE	4.61	23	23.6	755
12 x 4 RE	4.61	22	24.3	925
14 x 4 RE	4.61	21	25.4	1005
19 x 4 RE	4.61	19	28.2	1345
2 x 6 RE	3.08	62	15.7	335
3 x 6 RE	3.08	53	16.5	400
4 x 6 RE	3.08	53	17.7	480
5 x 6 RE	3.08	36	19.2	560
7 x 6 RE	3.08	34	20.3	725
2 x 10 RE	1.83	85	17.3	455

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 10 RM	1.83	74	17.8	555
3 x 10 RE	1.83	74	18.2	550
3 x 10 RM	1.83	74	18.8	770
4 x 10 RE	1.83	74	19.6	690
4 x 10 RM	1.83	74	203.0	790
5 x 10 RE	1.83	49	21.3	825
5 x 10 RM	1.83	49	22.0	920
7 x 10 RE	1.83	48	23.0	1050
1 x 16 RE	1.15	131	11.6	280
1 x 16 RM	1.15	131	11.9	300
2 x 16 RE	1.15	113	19.1	685
2 x 16 RM	1.15	113	19.6	695
3 x 16 RE	1.15	98	20.1	790
3 x 16 RM	1.15	98	20.8	850
4 x 16 RE	1.15	98	21.8	1010
4 x 16 RM	1.15	98	22.5	1075
5 x 16 RE	1.15	65	23.7	1165
5 x 16 RM	1.15	65	24.5	1245
7 x 16 RM	1.15	58	26.5	1580
1 x 25 RM	0.727	177	13.6	390
2 x 25 RM	0.727	152	22.9	1080
3 x 25 RE	0.727	133	24.3	1290
3 x 25 + 16 RM/RM	0.727	133	26.5	1435
4 x 25 RM	0.727	133	26.5	1515
5 x 25 RM	0.727	90	29.1	1780
1 x 35 RM	0.524	217	15.0	495
2 x 35 RM	0.524	186	25.4	1320
3 x 35 RM	0.524	162	27.2	1615
3 x 35 + 25 RM/RM	0.524	162	29.7	1815
3 x 35 + 16 RM/RM	0.524	162	29.7	1215
4 x 35 RM	0.524	162	29.7	1990
5 x 35 RM	0.524	109	33.3	2480
1 x 50 RM	0.387	265	16.5	645
3 x 50 RM	0.387	197	30.9	2035
3 x 50 + 35 RM/RM	0.387	197	34.3	2535
3 x 50 + 25 RM/RM	0.387	197	34.3	2470
4 x 50 RM	0.387	197	34.3	2680
5 x 50 RM	0.387	133	37.8	3320
1 x 70 RM	0.268	336	18.4	870
3 x 70 RM	0.268	250	34.9	2910
3 x 70 + 50 RM/RM	0.268	250	38.4	3425
3 x 70 + 35 RM/RM	0.268	250	38.4	3305
4 x 70 RM	0.268	250	38.4	3615
5 x 70 RM	0.268	180	42.9	4580

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)
1 x 95 RM	0.193	415	20.5	1150
3 x 95 RM	0.193	415	39.9	3910
3 x 95 + 50 RM/RM	0.193	308	44.2	4490
4 x 95 RM	0.193	308	45.0	4935
5 x 95 RM	0.193	215	49.0	6150
1 x 120 RM	0.153	85	22.2	1380
3 x 120 RM	0.153	359	43.7	4825
3 x 120 + 70 RM/ RM	0.153	359	48.1	5560
4 x 120 RM	0.153	359	48.1	6150
5 x 120 RM	0.153	247	53.3	7525
1 x 150 RM	0.124	557	24.0	1700
3 x 150 RM	0.124	412	47.4	5830
3 x 150 + 70 RM/ RM	0.124	412	52.3	6600
4 x 150 RM	0.124	412	49.0	7500
5 x 150 RM	0.124	279	58.4	9250
1 x 185 RM	0.099	646	26.4	2165
3x 185 RM	0.099	475	52.9	7460
3 x 185 + 95 RM/ RM	0.099	475	58.9	8520
4 x 185 RM	0.099	475	58.9	9370
5 x 185 RM	0.099	321	65.3	11365
1 x 240 RM	0.075	774	29.4	2765
3 x 240 RM	0.075	564	59.8	9530
3 x 240 + 120 RM/ RM	0.075	564	66.0	10870
4 x 240 RM	0.075	564	66.0	12025
5 x 240 RM	0.075	380	73.8	14750

Technical changes reserved. All figures are therefore without guarantee.



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