



We Make Modern
Life Possible

SAFETY CABLES WITH CIRCUIT INTEGRITY

NHXX FE180/E90

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



TECHNICAL DATA



Standard
adapted to DIN VDE 0266



Certificate
VDE Germany



Test Voltage
4 kV



Rated Voltage
0.6/1 kV (U₀/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 (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	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

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