



Application

NHXX cables are designed for fixed installations in dry or damp areas, on or under plaster, in walls, concrete, or on cable trays. They are not suitable for direct burial in soil or water, but may be used outdoors in sealed tubes to prevent water ingress. These cables are ideal for fire-critical systems like alarms, evacuation lifts, and emergency power, especially in public or high-value buildings (e.g., hospitals, data centres, airports, power plants).

Characteristics

Voltage Rating 0.6/1kV
Test voltage 4 kV
Min. bending radius single-core - 15D / multicore - 12D
Operating rating -35°C to 90°C
Short circuit temperature 250°C
Min. laying temperature: -5°C

Standards

DIN VDE 0266, HD 604 S1

Construction

Conductor Cu annealed conductors, class 1 or class 2 according to EN 60228
Insulation XLPE compound DIX 3
Bedding Extruded elastomere or plastomere compound or plastic tape
Sheath HFFR compound HXM1

Regulatory Compliance



Core Identification

According to HD 308 S2

1-core: Black OR Green/Yellow
3G-core: Blue + Brown + Green/Yellow
3-core: Brown + Black + Grey
4G-core: Brown + Black + Grey + Green/Yellow
4-core: Brown + Black + Grey + Blue
5G-core: Brown + Black + Grey + Blue + Green/Yellow



Sheath Colour

Orange ●
 Other colours available on request



The Copper Mark Partnership

- IEWC promotes sustainable practices by our suppliers
- Copper Mark promotes seven of 17 UN Global Sustainability Goals
- Copper Mark recipients cover
- 20% of global copper production

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	mm	kg/km	kg/km
1x10	RE	1,830	77	8,6	96,0	169
1x16	RE/RM	1,150	102	9,5	153,6	238
1x25	RM	0,727	138	11,0	240,0	347
1x35	RM	0,524	170	12,1	336,0	457
1x50	RM	0,387	207	13,6	480,0	624
1x70	RM	0,268	263	15,2	672,0	841
1x95	RM	0,193	325	16,8	912,0	1103
1x120	RM	0,153	380	18,4	1152,0	1370
1x150	RM	0,124	437	20,2	1440,0	1695
1x185	RM	0,0991	507	22,1	1776,0	2071
1x240	RM	0,0754	604	24,5	2304,0	2644
1x300	RM	0,0601	697	26,7	2880,0	3264
1x400	RM	0,0470	811	30,4	3840,0	4315
2x1,5	RE	12,1	26	11,7	28,8	196
2x2,5	RE	7,41	34	12,5	48,0	237
2x4	RE	4,61	44	13,5	76,8	295
2x6	RE	3,08	56	14,5	115,2	363
2x10	RE	1,830	74	16,4	192,0	492
2x16	RE/RM	1,150	98	18,0	307,2	672
2x25	RM	0,727	133	21,0	480,0	970
2x35	RM	0,524	162	23,2	672,0	1257
2x50	RM	0,387	197	26,8	960,0	1738
3x1,5	RE	12,1	24	12,2	43,2	216
3x2,5	RE	7,41	32	13,0	72,0	267
3x4	RE	4,61	42	14,0	115,2	339
3x6	RE	3,08	53	15,2	172,8	427
3x10	RE	1,830	74	16,9	288,0	593
3x16	RE/RM	1,150	98	18,9	460,8	828
3x25	RM	0,727	133	22,2	720,0	1213
3x35	RM	0,524	162	24,5	1008,0	1592
3x50	RM	0,387	197	28,0	1440,0	2182
3x70	RM	0,268	250	31,8	2016,0	2959
3x95	RM	0,193	308	36,1	2736,0	3933
3x120	RM	0,153	359	39,7	3456,0	4885
3x150	RM	0,124	412	43,8	4320,0	6047
3x185	RM	0,0991	475	48,7	5328,0	7477
3x240	RM	0,0754	564	54,0	6912,0	9506
3x300	RM	0,0601	649	59,6	8640,0	11781
3x25+16	RM	0,727/1,150	133	22,6	873,6	1165
3x35+16	RM	0,524/1,150	162	24,6	1161,6	1511
3x50+25	RM	0,387/0,727	197	28,4	1680,0	2114

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	mm	kg/km	kg/km
3x70+35	RM	0,268/0,524	250	32,8	2352,0	2929
3x95+50	RM	0,193/0,387	308	26,8	3216,0	3920
3x120+70	RM	0,153/0,268	359	40,9	4128,0	4957
3x150+70	RM	0,124/0,268	412	45,0	4992,0	6023
3x185+95	RM	0,0991/0,193	475	49,8	6240,0	7454
3x240+120	RM	0,0754/0,153	564	55,7	8064,0	9562
3x300+150	RM	0,0601/0,124	649	61,4	10080,0	11888
4x1,5	RE	12,1	24	12,9	57,6	253
4x2,5	RE	7,41	32	13,9	96,0	316
4x4	RE	4,61	42	15,1	153,6	407
4x6	RE	3,08	53	16,3	230,4	517
4x10	RE	1,830	604	18,3	384,0	728
4x16	RE/RM	1,150	697	20,5	614,4	1029
4x25	RM	0,727	811	24,1	960,0	1515
4x35	RM	0,524	26	26,8	1344,0	1998
4x50	RM	0,387	34	30,6	1920,0	2746
4x70	RM	0,268	44	35,3	2688,0	3776
4x95	RM	0,193	56	39,5	3648,0	4967
4x120	RM	0,153	74	44,0	4608,0	6230
4x150	RM	0,124	98	48,6	5760,0	7712
4x185	RM	0,0991	133	53,5	7104,0	9458
4x240	RM	0,0754	162	59,9	9216,0	12116
4x300	RM	0,0601	197	65,6	11520,0	14994
5x1,5	RE	12,1	24	13,8	72,0	288
5x2,5	RE	7,41	32	14,9	120,0	365
5x4	RE	4,61	42	16,2	192,0	474
5x6	RE	3,08	53	17,6	288,0	608
5x10	RE	1,830	74	19,8	480,0	863
5x16	RE/RM	1,150	98	22,3	768,0	1230
5x25	RM	0,727	133	26,4	1200,0	1821
5x35	RM	0,524	162	29,3	1680,0	2411
5x50	RM	0,387	197	34,0	2400,0	3364
5x70	RM	0,268	250	38,7	3360,0	4575
5x95	RM	0,193	308	43,4	4560,0	6030
5x120	RM	0,153	359	48,3	5760,0	7567
5x150	RM	0,124	412	53,4	7200,0	9376
5x185	RM	0,0991	475	59,3	8880,0	11577
5x240	RM	0,0754	564	66,0	11520,0	14751
5x300	RM	0,0601	649	72,4	14400,0	18200