

N2XH

Power cable 0,6/1 kV with Cu conductors, XLPE insulated and HFFR sheathed

APPLICATION

In earth, ducts, on support brackets, in dry and wet conditions etc., where one does not expect mechanical damages and the cables are not exposed to the mechanical tensile strain. In urban networks, industrial plants, electric power plants and other electricity consumers and for connection of control devices in industry, traffic etc., where fire prevention safety measures are requested, for elevated electricity and thermic strains.

CONSTRUCTION

Conductors: Cu, class 1 or 2 according to EN 60228

Insulation: XLPE compound, type 2X11

Bedding: Extruded elastomere or plastomere LSZH compound or plastic tape

Sheath: LSZH compound, type HM4

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

Single-core: ● Green/Yellow OR ● Black

2-core: ● Brown ● Blue

3-core (a): ● Green/Yellow ● Brown ● Blue

3-core (b): ● Black ● Brown ● Grey

4-core (a): ● Green/Yellow ● Brown ● Black ● Grey

4-core (b): ● Blue ● Brown ● Black ● Grey

5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

● Black

Other colours available on request

TECHNICAL CHARACTERISTICS

CPR class: Cca – s1,d1,a1

Test voltage: 4 kV

Rated voltage: 0,6/1 kV

Bending radius (min): single-core – 15D;
multicore- 12D

Min. laying temperature: -5°C

Max. conductor temperature: 90°C

Max. short-circuit temperature: 250°C

UV resistant: Yes

Low smoke emitting: EN 61034

Halogen-free: EN 60754

Fire retardant: EN 60332-3

STANDARD

SI 1516-1, HD 604 S1, IEC 60502-1

CERTIFICATION



International
Electrotechnical
Commission



SINGLE - CORE CABLES:

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
1x4	RE/RM	4,610	57	8,0	39	68
1x6	RE/RM	3,080	72	9,0	58	90
1x10	RE/RM	1,830	99	9,5	96	140
1x16	RE/RM	1,150	131	10,0	154	190
1x25	RM	0,727	177	11,0	240	290
1x35	RM	0,524	217	12,0	336	390
1x50	RM	0,387	265	15,0	480	510
1x70	RM	0,268	336	17,0	672	710
1x95	RM	0,193	415	19,0	912	960
1x120	RM	0,153	485	21,0	1152	1200
1x150	RM	0,124	557	23,0	1440	1480
1x185	RM	0,0991	646	25,0	1776	1910
1x240	RM	0,0754	774	28,0	2304	2370
1x300	RM	0,0601	901	30,0	2880	2970
1x400	RM	0,0440	1060	32,9	3840	3957

TWO - CORE CABLES:

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
2x1,5	RE/RM	12,1	29	8,9	28,8	150
2x2,5	RE/RM	7,41	39	9,7	48,0	190
2x4	RE/RM	4,610	42	10,8	76,8	246
2x6	RE/RM	3,080	53	11,8	115,2	313
2x10	RE/RM	1,830	74	14,4	192,0	441
2x16	RM	1,150	98	16,5	307,2	620
2x25	RM	0,727	133	20,0	480,0	919
2x35	RM	0,524	162	22,5	672,0	1211
2x50	RM	0,387	197	25,1	960,0	1672
2x70	RM	0,268	250	28,8	1344,0	2247
2x95	RM	0,193	308	32,5	1824,0	2932

THREE - CORE CABLES:

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
3x1,5	RE/RM	12,1	29	9,3	43,2	139,6
3x2,5	RE/RM	7,41	39	10,3	72	185,6
3x4	RE/RM	4,610	42	11,4	115	350
3x6	RE/RM	3,080	53	16,0	173	420
3x10	RE/RM	1,830	74	18,0	288	600
3x16	RM	1,150	98	20,0	461	770
3x25	RM	0,727	133	21,8	720	1120
3x35	RM	0,524	162	24,9	1008	1550
3x50	RM	0,387	197	25,2	1440	1982
3x70	RM	0,268	250	28,1	2016	2698
3x95	RM	0,193	308	31,7	2736	3592
3x120	RM	0,153	359	35,3	3456	4484
3x150	RM	0,124	412	39,3	4320	5571
3x185	RM	0,0991	475	43,6	5328	6876
3x240	RM	0,0754	564	49,0	6912	8799
3x50	SM	0,387	197	25,2	1440	1750
3x70	SM	0,268	250	29,2	2016	2450
3x95	SM	0,193	308	32,0	2736	3250
3x120	SM	0,153	359	34,9	3456	4000
3x150	SM	0,124	412	39,2	4320	5000
3x185	SM	0,0991	475	44,1	5328	6150
3x240	SM	0,0754	564	49,2	6912	8000

FOUR - CORE CABLES WITH REDUCED NEUTRAL CORE:

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
3x50+25	SM/SM	0,387/0,727	157	28,5	1680	2100
3x70+35	SM/SM	0,268/0,524	199	31,4	2352	2800
3x95+50	SM/SM	0,193/0,387	246	34,9	3216	3750
3x120+70	SM/SM	0,153/0,268	285	38,0	4128	4750
3x150+70	SM/SM	0,124/0,268	326	43,3	4992	5750
3x185+95	SM/SM	0,0991/0,193	374	47,2	6240	7200
3x240+120	SM/SM	0,0754/0,153	445	53,4	8064	9300
3x50+25	RM/RM	0,387/0,524	157	26,6	1680	2194
3x70+35	RM/RM	0,268/0,524	199	31,0	2352	3019
3x95+50	RM/RM	0,193/0,387	246	34,5	3216	4019
3x120+70	RM/RM	0,153/0,268	285	38,5	4128	5089
3x150+70	RM/RM	0,124/0,268	326	42,1	4992	6203
3x185+95	RM/RM	0,0991/0,193	374	46,7	6240	7689
3x240+120	RM/RM	0,0754/0,153	445	25,4	8064	9869

FOUR - CORE CABLES:

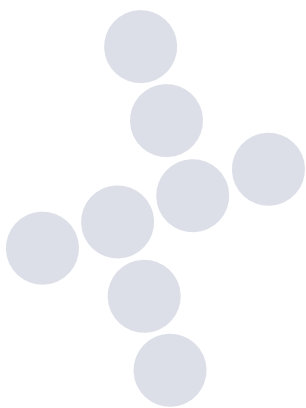
NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	mm	kg/km	kg/km
4x1,5	RE/RM	12,1	29	10,1	57,6	164,4
4x2,5	RE/RM	7,41	39	11,1	96	221,7
4x4	RE/RM	4,610	42	15,0	154	370
4x6	RE/RM	3,080	53	16,0	230	470
4x10	RE/RM	1,830	74	18,0	384	670
4x16	RM	1,150	98	20,0	614	930
4x25	RM	0,727	133	25,0	960	1440
4x35	RM	0,524	162	25,2	1344	1816
4x50	RM	0,387	197	28,2	1920	2513
4x70	RM	0,268	250	32,9	2688	3467
4x95	RM	0,193	308	37,2	3648	4579
4x120	RM	0,153	359	41,3	4608	5724
4x150	RM	0,124	412	45,8	5760	7158
4x185	RM	0,0991	475	50,6	7104	8785
4x240	RM	0,0754	761	57,6	9216	11310
4x35	SM	0,524	162	27,0	1344	1890
4x50	SM	0,387	197	28,0	1920	2300
4x70	SM	0,268	250	32,0	2688	3200
4x95	SM	0,193	308	36,0	3648	4250
4x120	SM	0,153	359	40,2	4608	5350
4x150	SM	0,124	412	44,8	5760	6550
4x185	SM	0,0991	475	49,5	7104	8100
4x240	SM	0,0754	761	56,0	9216	10550

FIVE - CORE CABLES:

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
5x1,5	RE/RM	12,1	29	11,0	72	192
5x2,5	RE/RM	7,41	39	12,1	120	261,5
5x4	RE/RM	4,610	42	17,0	192	450
5x6	RE/RM	3,080	53	18,5	288	600
5x10	RE/RM	1,830	74	21,0	480	850
5x16	RM	1,150	98	24,0	768	1200
5x25	RM	0,727	133	28,0	1200	1539

CONTROL CABLES:

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
7x1,5	RE/RM	12,1	29	12,5	100,8	231
7x2,5	RE/RM	7,41	39	13,8	168	319
7x4	RM/RE	4,610	42	16,7	268,8	486
7x6	RM/RE	3,080	53	18,3	403,2	653
7x10	RM/RE	1,150	74	19	672	939



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