



N2XCH

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

APPLICATION

Distribution power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, within facilities, in cable canals, in concrete, in conditions where there is a danger of possible mechanical damages, but where the cable is not exposed either to systematic mechanical stress or heavier tensile strain. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and other electric plants. Concentric conductor can be used as neutral, protective or earth connection, and in situations where the insulation might be roughly damaged by some metal object, it acts as protection against contact voltage. Corrugated, concentric conductor construction enables establishing of several cable connections without cutting of conductor.

CONSTRUCTION

Conductors: Cu, class 1 or 2 according to EN 6022
Insulation: XLPE compound
Bedding: Extruded elastomere or plastomere compound or plastic tape
Concentric conductor: Cu wires with counter helix of Cu tape
Sheath: HFFR compound

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

Voltage rating (U₀/U): 0,6/1 kV
Testing voltage: 4 kV
Min. temp. for cable laying: -5°C
Max. working temperature: 90°C
Max. short-circuit temperature: 250°C
Min. bending radius: single-core- 15D; multicore- 12D
CPR classification: Dca- s1,d2,a1
Fire properties: EN 60331-2, EN 60332-3-24 (cat. C)

STANDARD

VDE 0276-604, HD 604 S1

CERTIFICATION



NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
1x50/25	RM	0,387	218	208	16,1	720	824
1x70/35	RM	0,268	275	256	18,0	1008	1119
1x95/50	RM	0,193	336	307	19,9	1392	1501
1x120/70	RM	0,153	388	341	22,0	1824	1934
1x150/70	RM	0,124	438	377	23,8	2112	2238
1x185/95	RM	0,0991	501	418	26,4	2688	2818
1x240/120	RM	0,0754	580	469	29,1	3456	3583
1x300/150	RM	0,0601	654	514	31,5	4320	4433
1x400/185	RM	0,0470	733	565	35,8	5616	5727

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mm ²		Ω/km	A	A	mm	kg/km	kg/km
3x1,5/1,5	RE	12,1	25	31	13,5	57,6	240
3x2,5/2,5	RE	7,41	33	40	14,4	96,0	307
3x4/4	RE	4,61	43	52	15,5	153,6	391
3x6/6	RE	3,08	54	65	16,8	230,4	507
3x10/10	RE/RM	1,83	75	87	18,3	384,0	708
3x16/16	RM	1,15	100	113	21,7	614,4	1020
3x25/16	RM	0,727	136	146	25,1	873,6	1410
3x35/16	SM	0,524	165	176	24,0	1161,6	1487
3x50/25	SM	0,387	201	208	26,6	1680,0	2064
3x70/35	SM	0,268	255	256	31,8	2352,0	2925
3x95/50	SM	0,193	314	307	35,4	3216,0	3872
3x120/70	SM	0,153	364	349	38,9	4128,0	4884
3x150/70	SM	0,124	416	391	43,2	4992,0	5882
3x185/95	SM	0,0991	480	442	47,8	6240,0	7282
3x240/120	SM	0,0754	565	509	53,9	8064,0	9400

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
4x1,5/1,5	RE	12,1	25	31	15,3	72	318
4x2,5/2,5	RE	7,41	33	40	16,3	120	394
4x4/4	RE	4,61	43	52	17,5	192	497
4x6/6	RE	3,08	54	65	18,9	288	637
4x10/10	RE/RM	1,83	75	87	21,3	480	894
4x16/16	RM	1,15	100	113	24,0	768	1260
4x25/16	RM	0,727	136	146	27,9	1113,6	1763
4x35/16	RM	0,524	165	176	30,7	1497,6	2268
4x50/25	SM	0,387	201	208	34,7	2160	3114
4x70/35	SM	0,268	255	256	41,0	3024	4358
4x95/50	SM	0,193	314	307	45,9	4128	5732
4x120/70	SM	0,153	364	349	50,9	5280	7217
4x150/70	SM	0,124	416	391	55,7	6432	8738
4x185/95	SM	0,0991	480	442	61,5	8016	10752
4x240/120	SM	0,0754	565	509	69,5	10368	13841

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
5x1,5/1,5	RE	12,1	25	31	15,1	86,4	313
5x2,5/2,5	RE	7,41	33	40	16,2	144,0	396
5x4/4	RE	4,61	43	52	17,6	230,4	516
5x6/6	RE	3,08	54	65	19,2	345,6	677
5x10/10	RE/RM	1,83	75	87	21,9	576,0	978
5x16/16	RM	1,15	100	113	25,0	921,6	1409
5x25/16	RM	0,727	136	146	29,2	1353,6	2004
5x35/16	RM	0,524	165	176	32,3	1833,6	2604
5x50/25	RM	0,387	201	208	36,7	2640,0	3600
5x70/35	RM	0,268	255	256	43,3	3696,0	5037
5x95/50	RM	0,193	314	307	48,8	5040,0	6684
5x120/70	RM	0,153	364	349	54,0	6432,0	8371

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
6x1,5/1,5	RE	12,1	25	31	15,6	86,4	316
6x2,5/2,5	RE	7,41	33	40	16,8	144,0	410
6x4/4	RE	4,61	43	52	18,3	230,4	544
6x6/6	RE	3,08	54	65	20,0	345,6	714
6x10/10	RE	1,83	75	87	22,8	576,0	1043

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CU WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
7x1,5/1,5	RE	12,1	25	31	16,0	100,8	349
7x2,5/2,5	RE	7,41	33	40	17,2	168,0	454
7x4/4	RE	4,61	43	52	18,7	268,8	605
7x6/6	RE	3,08	54	65	20,4	403,2	797
7x10/10	RE	1,83	75	87	23,2	672,0	1167

