



N2XCY FR3

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

APPLICATION

Distribution and signalling 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 requiring increased electric protection and protection against mechanical damages. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and other electric plants and for connection of signalling devices in industry, traffic and similar. Concentric conductor can be used as neutral, protective or earth connection, and if there is a danger of damages caused by digging, it acts as protection against contact voltage in case of rough insulation damage.

CONSTRUCTION

Conductors: Al, class 2 according to EN 60228

Insulation: XLPE compound

Bedding: Extruded elastomere or plastomere compound or plastic tape

Concentric conductor: Cu wires with counter helix of Cu tape

Sheath: PVC compound, fire retardant, green

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

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:

● Green

Other colours available on request

TECHNICAL CHARACTERISTICS

CPR class: Eca

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

STANDARD

IS 1516-1, IEC 60502-1, HD 603 S1

CERTIFICATION



International
Electrotechnical
Commission



TWO- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
2x1,5/1,5	RM	12,1	24	31	9,4	43,2	138,9
2x2,5/2,5	RM	7,41	32	40	10,2	72,0	184,8
2x4/4	RM	4,61	42	52	11,3	115,2	251,0
2x6/6	RM	3,08	53	64	12,5	172,8	334,4
2x10/10	RM	1,830	74	86	14,4	288,0	495,3
2x16/16	RM	1,150	98	112	16,7	460,8	726,3
2x25/16	RM	0,727	133	145	19,9	633,6	1011,9
2x35/16	RM	0,524	162	174	22,2	825,6	1293,7
2x50/25	RM	0,387	197	206	25,5	1200,0	1811,3
2x70/35	RM	0,268	250	254	29,2	1680,0	2465,7
2x95/50	RM	0,193	308	305	32,9	2304,0	3280,8
2x120/70	RM	0,153	359	348	36,7	2976,0	4171,1
2x150/70	RM	0,124	412	392	40,5	3552,0	5020,0

THREE- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
3x1,5/1,5	RM	12,1	24	31	9,9	57,6	157,8
3x2,5/2,5	RM	7,41	32	40	10,8	96,0	213,5
3x4/4	RM	4,61	42	52	11,9	153,6	294,3
3x6/6	RM	3,08	53	64	13,2	230,4	396,9
3x10/10	RM	1,830	74	86	15,3	384,0	595,7
3x16/16	RM	1,150	98	112	17,7	614,4	883,2
3x25/16	RM	0,727	133	145	21,1	873,6	1254,9
3x35/16	RM	0,524	162	174	23,7	1161,6	1629,5
3x50/25	RM	0,387	197	206	26,4	1680,0	2276,9
3x70/35	RM	0,268	250	254	30,3	2352,0	3117,0
3x95/50	RM	0,193	308	305	34,3	3216,0	4161,2
3x120/70	RM	0,153	359	348	38,4	4128,0	5282,3
3x150/70	RM	0,124	412	392	42,5	4992,0	6410,5
3x185/95	RM	0,0991	475	444	47,3	6240,0	7973,2

FOUR- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
4x1,5/1,5	RM	12,1	24	31	10,65	72,0	182,7
4x2,5/2,5	RM	7,41	32	40	11,67	120,0	249,8
4x4/4	RM	4,61	42	52	12,97	192,0	347,2
4x6/6	RM	3,08	53	64	14,37	288,0	471,3
4x10/10	RM	1,830	74	86	16,66	480,0	712,3
4x16/16	RM	1,150	98	112	19,31	768,0	1061,8
4x25/16	RM	0,727	133	145	23,2	1113,6	1530,5
4x35/16	RM	0,524	162	174	26,04	1497,6	2007,2
4x50/25	RM	0,387	197	206	29,18	2160,0	2808,8
4x70/35	RM	0,268	250	254	34,21	3024,0	3863,2
4x95/50	RM	0,193	308	305	37,99	4128,0	5148,5
4x120/70	RM	0,153	359	348	42,47	5280,0	6524,5
4x150/70	RM	0,124	412	392	47,12	6432,0	8012,0
4x185/95	RM	0,0991	475	444	52,47	8016,0	9941,3
4x240/120	RM	0,0754	564	517	59,01	10368,0	12741,8

