ttcables
ELECTRIC CABLE WORKS

NYRGY

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

APPLICATION

Distribution and signal power cable for static application, mostly in ground, but also within and outside facilities, in cable canals, in concrete. Used in electric power plants and other electric plants, in industry, metropolitan networks and for connection of signalling devices in industry, traffic and similar. Resistant to mechanical loads, able to sustain heavier mechanical tensile strains, could be laid slantingly or vertically, same as on grounds exposed to land-sliding.

TECHNICAL CHARACTERISTICS

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: 70°C
Max. short-circuit temperature: 160°C

CONSTRUCTION

Conductors: Cu, class 2 according to EN 60228
Insulation: PVC compound DIV 4
Bedding: Extruded elastomere or plastomere compound or plastic tape
Armour: a layer of round galvanized steel wires with counter helix of galvanized steel tape
Sheath: PVC compound DMV 5

STANDARD

HD 603 S1, IEC 60502-1

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

CERTIFICATION

CE
IEC International Electrotechnical Commission
REACH COMPLIANT
RoHS compliant

SINGLE- 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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
1x500	RM	0,0366	657	574	43	4800	7334

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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
2x4	RE/RM	4,61	34	47	17,8	76,8	603
2x6	RE/RM	3,08	43	59	18,9	115,2	688
2x10	RE/RM	1,830	59	79	21,0	192,0	927
2x16	RM	1,150	779	102	22,9	307,2	1140
2x25	RM	0,727	106	133	26,7	480,0	1666
2x35	RM	0,524	129	159	29,2	672,0	2030
2x50	RM	0,387	157	188	34,3	960,0	2838
2x70	RM	0,268	199	232	37,4	1344,0	3486
2x95	RM	0,193	246	280	42,9	1824,0	4733
2x120	RM	0,153	285	318	46,5	2304,0	5591

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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
3x1,5	RE/RM	12,1	19,5	27	14,7	43,2	358
3x2,5	RE/RM	7,41	25	36	15,5	72,0	422
3x4	RE/RM	4,61	34	47	18,5	115,2	673
3x6	RE/RM	3,08	43	59	19,7	172,8	781
3x10	RE/RM	1,830	59	79	22,0	288,0	1065
3x16	RM	1,150	779	102	24,0	460,8	1344
3x25	RM	0,727	106	133	28,2	720,0	1982
3x35	RM	0,524	129	159	30,8	1008,0	2455
3x50	RM	0,387	157	188	36,2	1440,0	3440
3x70	RM	0,268	199	232	39,6	2016,0	4299
3x95	RM	0,193	246	280	45,4	2736,0	5828
3x120	RM	0,153	285	318	49,3	3456,0	6953

THREE- CORE SECTOR SHAPED 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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
3x35	SM	0,524	129	159	29,5	1008,0	2132,0
3x50	SM	0,387	157	188	33,6	1440,0	2765,0
3x70	SM	0,268	199	232	36,9	2016,0	3554,0
3x95	SM	0,193	246	280	42,6	2736,0	4807,0
3x120	SM	0,153	285	318	46,0	3456,0	5771,0
3x150	SM	0,124	329	357	51,3	4320,0	7349,0
3x185	SM	0,0991	377	402	55,9	5328,0	8784,0
3x240	SM	0,0754	443	463	62,6	6912,0	10947,0

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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
4x1,5	RM	12,1	19,5	27	13,5	57,6	414,2
4x2,5	RM	7,41	25	36	14,4	96,0	496,0
4x4	RM	4,61	34	47	17,3	153,6	763,0
4x6	RM	3,08	43	59	18,5	230,4	903,4
4x10	RM	1,830	59	79	20,5	384,0	1153,5
4x16	RM	1,150	779	102	23,3	614,4	1655,5
4x25	RM	0,727	106	133	27,0	960,0	2274,3
4x35	RM	0,524	129	159	29,6	1344,0	2856,0
4x50	RM	0,387	157	188	34,7	1920,0	4022,8
4x70	RM	0,268	199	232	38,5	2688,0	5134,4
4x95	RM	0,193	246	280	44,8	3648,0	7050,4
4x120	RM	0,153	285	318	48,4	4608,0	8383,9

FOUR- CORE SECTOR SHAPED 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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
4x35	SM	0,524	129	159	32,1	1344,0	2631,0
4x50	SM	0,387	157	188	36,7	1920,0	3471,0
4x70	SM	0,268	199	232	41,3	2688,0	4727,0
4x95	SM	0,193	246	280	46,7	3648,0	6072,0
4x120	SM	0,153	285	318	51,5	4608,0	7734,0
4x150	SM	0,124	329	357	56,4	5760,0	9310,0
4x185	SM	0,0991	377	402	61,5	7104,0	11141,0
4x240	SM	0,0754	443	463	69,0	9216,0	13958,0

FIVE- 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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
5x1,5	RM	12,1	19,5	27	14,3	72	446,2
5x2,5	RM	7,41	25	36	15,4	120	545,4
5x4	RM	4,61	34	47	17,8	192	716,1
5x6	RM	3,08	43	59	19,9	288	984,2
5x10	RM	1,830	59	79	22,0	480	1288,8
5x16	RM	1,150	779	102	25,2	768	1855,4
5x25	RM	0,727	106	133	29,2	1200	2593,9
5x35	RM	0,524	129	159	32,2	1680	3281,3
5x50	RM	0,387	157	188	37,8	2400	4625,2
5x70	RM	0,268	199	232	41,9	3360	5970,9
5x95	RM	0,193	246	280	48,7	4560	8190,3
5x120	RM	0,153	285	318	53,1	5760	9878,3

FIVE-CORE SECTOR SHAPED 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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
5x35	SM	0,524	129	159	34,9	1680,0	3072,0
5x50	SM	0,387	157	188	40,1	2400,0	4093,0
5x70	SM	0,268	199	232	45,1	3360,0	5569,0
5x95	SM	0,193	246	280	51,1	4560,0	7205,0
5x120	SM	0,153	285	318	56,4	5760,0	9140,0
5x150	SM	0,124	329	357	61,8	7200,0	11061,0