



# NAYBY

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

## 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: Al, class 1 or 2, according to EN 60228  
 Insulation: PVC compound  
 Bedding: Extruded elastomere or plastomere compound or plastic tape  
 Armour: two galvanized steel tapes  
 Sheath: PVC compound

## STANDARD

HD 603 S1, IEC 60502-1

## CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

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



International  
 Electrotechnical  
 Commission

### 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 <sup>2</sup>		Ω/km	A	A	mm	kg/km	kg/km
3x10	RE/RM	3,08	-	-	20,5	87	608
3x16	RE/RM	1,910	-	-	22,4	139,2	754
3x25	RM	1,200	97	75	25,7	217,5	1004
3x35	RM	0,868	120	90	28,1	304,5	1204
3x50	SM	0,641	1446	106	31,9	435,0	1328
3x70	SM	0,443	187	130	35,8	609,0	1637
3x95	SM	0,320	227	154	40,5	826,5	2033
3x120	SM	0,253	263	174	43,7	1044,0	2432
3x150	SM	0,206	304	197	48,4	1305,0	2894
3x185	SM	0,164	347	220	52,7	1609,5	3424
3x240	SM	0,125	409	253	58,9	2088,0	4182
3x300	SM	0,100	471	286	64,9	2610,0	5061

### 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 <sup>2</sup>		Ω/km	A	A	mm	kg/km	kg/km
4x10	RE/RM	3,080	-	-	22,0	116,0	687
4x16	RE/RM	1,910	-	-	24,1	185,6	859
4x25	RE/RM	1,200	97	75	27,8	290,0	1156
4x35	SM	0,868	120	90	29,2	406,0	1030
4x50	SM	0,641	1446	106	34,7	580,0	1574
4x70	SM	0,443	187	130	38,9	812,0	1962
4x95	SM	0,320	227	154	44,2	1102,0	2545
4x120	SM	0,253	263	174	48,2	1392,0	2964
4x150	SM	0,206	304	197	53,3	1740,0	3594
4x185	SM	0,164	347	220	58,1	2146,0	4240
4x240	SM	0,125	409	253	65,0	2784,0	5259

### 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.)
mm <sup>2</sup>		Ω/km	A	A	mm	kg/km	kg/km
5x10	RE/RM	3,080	-	-	23,6	145,0	770
5x16	RE/RM	1,910	-	-	26,0	232,0	967
5x25	RE/RM	1,200	97	75	30,0	362,5	1311
5x35	RM	0,868	120	90	33,0	507,5	1593
5x50	RM	0,641	1446	106	39,0	725,0	2321
5x70	RM	0,443	187	130	43,9	1015,0	2944
5x95	RM	0,320	227	154	49,7	1377,5	3811
5x120	RM	0,253	263	174	53,7	1740,0	4449
5x150	RM	0,206	304	197	59,8	2175,0	5468