



NAYY

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

CONSTRUCTION

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

Insulation: PVC compound DIV 4

Bedding: Extruded elastomere or plastomere compound or plastic tape

Sheath: PVC compound DMV 5

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

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: 70°C

Max. short-circuit temperature: 160°C

STANDARD

VDE 0276-603, HD 603 S1, IEC 60502-1

CERTIFICATION



International
Electrotechnical
Commission



ONE - CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	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
1x16	RM	1,910	-	-	10,5	46	145
1x25	RM	1,200	87	106	12,0	73	195
1x35	RM	0,868	107	127	13,5	102	255
1x50	RM	0,641	131	151	15,0	145	298
1x70	RM	0,443	166	185	17,0	203	383
1x95	RM	0,320	205	222	19,0	276	490
1x120	RM	0,253	239	253	20,0	348	575
1x150	RM	0,206	273	284	22,0	435	695
1x185	RM	0,164	317	322	25,0	537	845
1x240	RM	0,125	378	375	28,0	696	1100
1x300	RM	0,100	437	425	30,0	870	1379
1x400	RM	0,0778	513	487	34,0	1160	1615
1x500	RM	0,0605	600	558	37,0	1450	2015
1x630	RM	0,0469	701	635	38,8	1827	2472
1x800	RM	0,0367	809	716	42,1	2320	2900
1x1000	RM	0,0291	916	796	46,6	2880	3390

TWO - CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	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
2x16	RM/RE	1,910	-	-	17,4	92,8	495,2
2x25	RM	1,200	82	102	20,4	145,0	683,9
2x35	RM	0,868	100	123	22,6	203,0	844,8
2x50	RM	0,641	119	144	26,0	290,0	1121,1
2x70	RM	0,443	152	179	29,0	406,0	1410,0
2x95	RM	0,320	186	2115	33,2	551,0	1883,3

THREE - CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	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
3x16	RM/RE	1,910	-	-	18,4	139,2	427
3x25	RM	1,200	82	102	21,7	217,5	624
3x35	RM	0,868	100	123	24,1	304,5	815
3x50	RM/SM	0,641	119	144	27,9	435	1049
3x70	RM/SM	0,443	152	179	31,4	609	1384
3x95	RM/SM	0,320	186	2115	35,9	826,5	1781
3x120	SM	0,253	216	245	39,7	1044	1792
3x150	SM	0,206	246	275	43,8	1305	2200
3x185	SM	0,164	285	313	48,3	1609,5	2692
3x240	SM	0,125	338	364	54,1	2088	3394

FOUR - CORE SECTOR SHAPED CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	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
4x35	SM	0,868	100	123	28,0	406	690
4x50	SM	0,641	119	144	30,0	580	832
4x70	SM	0,443	152	179	35,0	812	1147
4x95	SM	0,320	186	215	39,0	1102	1460
4x120	SM	0,253	216	245	41,0	1392	1861
4x150	SM	0,206	246	275	45,0	1740	2318
4x185	SM	0,164	285	313	49,0	2146	2866
4x240	SM	0,125	338	364	55,0	2784	3616
4x300	SM	0,100	400	419	59,0	3480	4500
3x70+35	SM/SM	0,443/0,868	152	179	33,0	710	1201
3x95+50	SM/SM	0,320/0,641	186	215	37,8	971	1672
3x120+70	SM/SM	0,253/0,443	216	245	40,4	1247	2009
3x150+70	SM/SM	0,206/0,443	246	275	44,9	1508	2401
3x185+95	SM/SM	0,164/0,320	285	313	49,0	1885	2991
3x240+120	SM/SM	0,125/0,253	338	364	55,2	2436	3808
3x240+120	SM/SE	0,125/0,253	338	364	55,2	2436	3808

FOUR - CORE CABLES WITH CONTROL CORE:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	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
4x16+2,5	RE/RM	1,910	-	-	24,0	185	630
4x25+2,5	RE/RM	1,200	82	102	25,0	290	885
4x35+2,5	RE/RM	0,868	100	123	28,0	406	1089
4x35+2,5	SE/SM	0,868	100	123	28,0	406	724
4x50+2,5	SE/SM	0,641	119	144	30,0	580	866
4x70+2,5	SE/SM	0,443	152	179	35,0	812	1181
4x95+2,5	SE/SM	0,320	186	215	39,0	1102	1494
4x120+2,5	SE/SM	0,253	216	245	41,0	1392	1895
4x150+2,5	SE/SM	0,206	246	275	45,0	1740	2352
4x185+2,5	SE/SM	0,164	285	313	49,0	2146	2900
4x240+2,5	SE/SM	0,125	338	364	55,0	2784	3650
4x300+2,5	SE/SM	0,100	400	419	59,0	3480	4534

FOUR - CORE ROUND CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	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
4x16	RE/RM	1,910	-	-	21,3	185,6	661
4x25	RE/RM	1,200	82	102	25,0	290	922
4x35	RE/RM	0,868	100	123	27,6	406	1147
4x50	RE/RM	0,641	119	144	30,0	580	1529
4x70	RE/RM	0,443	152	179	33,7	812	1997
4x95	RE/RM	0,320	186	215	39,0	1102	2630
4x120	RE/RM	0,253	216	245	42,6	1392	3145
4x150	RE/RM	0,206	246	275	47,1	1740	3901
4x185	RE/RM	0,164	285	313	52,1	2146	4742
4x240	RE/RM	0,125	338	364	58,6	2784	6033

FIVE - CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	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
5x4	RE	-	-	-	15,3	58,0	314,5
5x6	RE	-	-	-	16,7	87,0	383,8
5x10	RE	3,080	-	-	19,0	145,0	510,3
5x16	RM/RE	1,910	-	-	23,4	232,0	625,0
5x25	RM	1,200	102	112	28,2	363,0	950,0
5x35	RM	0,868	126	135	31,0	507,5	1195,0
5x50	RM	0,641	149	158	36,8	725,0	1540,0
5x70	RM	0,443	191	196	42,8	1015,0	2240,0
5x95	RM	0,320	234	234	48,5	1380,0	3015,0
5x120	RM	0,253	273	268	53,6	1740,0	3580,0