

NAYY 0,6/1kV

PVC insulated cable with aluminium conductor



Application

This power cable is suitable for fixed installations, preferably in cable ducts, indoors, outdoors, in water or underground if no mechanical damage is to be expected

Construction

Conductor material	Solid (SE) or stranded (RM/SM) aluminium wires
Insulation	Polyvinylchloride (PVC)
Filling	PVC core covering or taping
Outer sheath	Outer sheath of polyvinylchloride (PVC), Black

Standards and Certifications

HD 603 S1/3G
 DIN EN 60228 class 1 and 2 (construction)
 Construction according to EN 60228
 This cable is VDE certified



Core Identification

HD 308 S2

Technical Data

Nominal voltage U_0/U	[V]	600 / 1000V
Test voltage	[V]AC	4000
Temperature range	in motion °C	-5°C till +70°C
	fixed °C	-20°C till +70°C
Operating temperature	short circuit °C	160°C ≤ 300mm ² 140°C > 300mm ²
Short circuit time	max. [sec]	5
Bending radius	single core x diameter	15
	multi core x diameter	12

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Fire classification CPR class

Reaction to fire EN 50575 - Eca

Number of cores x Cross- section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [Ω/km]
1 x 16 RE	12	155	1.91
1 x 25 RM	15	190	1.2
1 x 35 RM	16	235	0.869
1 x 50 RM	17	310	0.641
1 x 70 RM	19	395	0.443
1 x 95 RM	21	520	0.320
1 x 120 RM	22	630	0.253
1 x 150 RM	25	725	0.206
1 x 185 RM	27	895	0.164
1 x 240 RM	30	1150	0.125
1 x 300 RM	32	1385	0.100
4 x 16 RE	23	735	1.9
4 x 25 RE	29	948	1.2
4 x 25 RM	30	948	1.2
4 x 35 RE	31	980	0.869
4 x 35 RM	32	1130	0.869
4 x 35 RE	32	1130	0.869
4 x 50 SM	33	1190	0.641
4 x 50 SE	33	1190	0.641
4 x 70 SM	37	1425	0.443
4 x 70 SE	37	1425	0.443
4 x 95 SM	41	1950	0.32
4 x 95 SE	41	1950	0.32
4 x 120 SM	45	2345	0.253
4 x 120 SE	45	2345	0.253
4 x 150 SM	49	2940	0.206
4 x 150 SE	49	2940	0.206
4 x 185 SM	53	3855	0.164
4 x 185 SE	53	3855	0.164
4 x 240 SM	55	4475	0.125
4 x 240 SE	59	4475	0.125
5 x 16 RE	25	750	1.9
5 x 25 RM	31	1230	1.2
5 x 25 RE	31	1230	1.2
5 x 35 RM	36	1560	0.869

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Number of cores x Cross- section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [Ω/km]
5 x 35 RE	36	1560	0.869
5 x 50 RM	37	2055	0.641
5 x 70 RM	43	2565	0.443
5 x 95 RM	46	3270	0.320
5 x 120 RM	52	3960	0.253
5 x 150 RM	58	4945	0.206
5 x 185 RM	65	5700	0.164
5 x 240 RM	73	7220	0.125

Designation

- RE Solid round conductors
- SE Solid sector conductors
- RM Stranded round conductors
- SM Sector stranded conductors

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