

## EAYY - 0,6/1 kV

### 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	Core insulation of polyvinylchloride (PVC)
Filling	PVC core covering or taping
Outer sheath	Outer sheath of polyvinylchloride (PVC), Black

#### Standards and Certifications

OVE K 23 and K 603; HD 603 S1  
 Construction according to EN 60228

#### Core Identification

HD 308 S2

#### Technical Data

Nominal voltage U <sub>0</sub> /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 <sup>2</sup>
		140°C > 300mm <sup>2</sup>
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 60332 - 1 - 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	9.5	118	1.91
1 x 25 RM	11.5	174	1.2
1 x 35 RM	13	209	0.868
1 x 50 RM	14	282	0.641
1 x 70 RM	16	363	0.443
1 x 95 RM	18	520	0.320
1 x 120 RM	19	557	0.253
1 x 150 RM	22	674	0.206
1 x 185 RM	23.5	826	0.164
1 x 240 RM	27	1.060	0.125
1 x 300 RM	29.5	1.288	0.100
3 x 240 SM + 120 SM	54.5	5.455	0.125 / 0.253
4 x 16 RE	19	414	1.91
4 x 25 RM	24	887	1.2
4 x 35 RM	28	1075	0.868
4 x 35 SM	26	796	0.868
4 x 50 SM	29	1.017	0.641
4 x 70 SM	33.5	1.312	0.443
4 x 95 SM	36.5	1.698	0.320
4 x 120 SM	39.5	2.460	0.253
4 x 150 SM	43	2600	0.206
4 x 185 SM	52	3780	0.164
4 x 240 SM	54.5	4100	0.125
4 x 300 SM	58.5	5000	0.100
5 x 10 RE	18	393	3.08
5 x 16 RE	21	521.5	1.91

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Number of cores x Cross- section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [ $\Omega$ /km]
5 x 25 RM	27	1.020	1.2
5 x 35 RM	30.5	1.320	0.868
5 x 50 RM	34.5	1.550	0.641
5 x 70 RM	39.5	2.021	0.443
5 x 95 RM	45.5	2.598	0.320
5 x 120 RM	49	3.200	0.253
5 x 150 RM	55.5	4.300	0.206
5 x 185 RM	61	5.350	0.164
5 x 240 RM	70	7.600	0.125

### Designation

RE	Solid round conductors
SE	Solid sector conductors
RM	Stranded round conductors
SM	Stranded sector conductors

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