

6-AYKCY 3,6/6 kV - PVC insulated power cables



Application

In trench, direct buried, in duct, in free air.

Global data

Standard	TP-KB-01/05
Type designation	6-AYKCY

Design features

Conductor	Aluminium conductor
Insulation	PVC insulation
Overall screen	Copper screen
Outer sheath	PVC outersheath
Available colours	Black
Example for marking	6-AYKCY 3 x 120 SM/16 3,6/6 kV

Electrical parameters

Rated voltage	3.6/6 kV
Test voltage (AC)	18 kV

Chemical parameters

Performance against fire	STN IEC 332-1 (HD 405.1 S1)
Lead Free	Yes

Thermal parameters

Max. operating temperature of conductor	70 °C
Max. operating temperature of conductor at short-circuit	160 °C ($\leq 300 \text{ mm}^2$); 140 °C ($300 \text{ mm}^2 <$)
Minimum installation temperature	-5 °C

Mechanical parameters

Min. bending radius	15 x D
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Number of cores x cross section	Insulation thickness nom. mm	Outer Sheath Thickness nom. mm	Outer diameter mm	Weight (approx.) kg/km	Conductor DC resistance at 20°C Ω/km	Current-carrying capacity during normal operation, laid in the ground A	Current carrying capacity for install. free in air A	Delivery length m
1x300RM/25	3.4	2	37.5	1675	0.1	452	503	1000
1x400RM/35	3.4	2.1	41	2277	0.0778	499	573	500
1x500RM/35	3.4	2.2	44	2476	0.0605	560	659	500
3x25RE/16	3.4	2	35	1648	1.2	91	73	1000
3x35RE/16	3.4	2.1	37	1928	0.868	118	99	500
3x50RE/16	3.4	2.2	41	2288	0.641	143	119	500
3x70RE/16	3.4	2.3	44	2728	0.443	176	150	500
3x95SM/16	3.4	2.4	46	2812	0.32	211	182	500
3x120SM/16	3.4	2.5	48	2953	0.253	240	210	500
3x150SM/25	3.4	2.6	50	3423	0.206	269	238	500
3x185SM/25	3.4	2.8	55	3973	0.164	305	213	350
3x240SM/25	3.4	2.9	60	4661	0.125	354	323	350