1-YY

Power cables 1 kV

Standard: TP-KK-133/01



Design

1. Copper conductor
2. PVC insulation
3. PVC sheath

Application

Cables are designed for fixed installation, indoors and outdoors, in the ground and in concrete.

Installation of the product should only be carried out by personnel trained and qualified for electrical works. The product is designed according to recognized standards. Applicable rules of installation must be applied at all times.

Properties

Rated voltage Uo/U	0,6/1 kV
Test voltage	4 (AC) kV
Maximal short-circuit conductor temperature	160 (≤300 mm²); 140 (>300 mm²) °C
Maximal operating conductor temperature	70 °C
Temperature range	from -35 up to 70 °C
Minimal temperature for laying and manipulation	-5 °C
Minimal storage temperature	-35 °C
Colour of insulation	HD 308 S2
Colour of sheath	black

Self-extinguishing of one cable	IEC 60332-1-2
CPR-Classification	Eca
UV stability	yes
Packaging	drum
Certificate	EZÚ
RoHS	yes
REACH	yes
Declaration of Conformity EU (CE)	yes
LVD Conformity	yes

1-YY

Technical data

No. of cores and cross-section	Shape of conductor	Diameter (height) of conductor	Thickness - nominal insulation	Thickness - nominal sheath	Diameter informative	Weight informative	Minimal radius of bend	Maximum pulling force
mm²		mm	mm	mm	mm	kg/km	mm	N
1x25	RMV	5,9	1,2	1,8	12	334	173	1250
1x35	RMV	7,0	1,2	1,8	13	433	189	1750
1x50	RMV	8,2	1,4	1,8	14	569	212	2500
1x70	RMV	10,0	1,4	1,8	16	776	239	3500
1x95	RMV	11,7	1,6	1,8	18	1048	270	4750
1x120	RMV	13,2	1,6	1,8	20	1285	293	6000
1x150	RMV	14,6	1,8	1,8	21	1553	320	7500
1x185	RMV	16,4	2,0	1,8	24	1922	353	9250
1x240	RMV	18,6	2,2	2,0	27	2506	398	12000
1x300	RMV	21,1	2,4	2,0	29	3111	441	15000
1x400	RMV	24,2	2,6	2,0	33	3932	494	20000
1x500	RMV	27,3	2,8	2,2	37	5013	552	25000

No. of cores and cross-section	Shape of conductor	Max. effective resistance conductor at 20°C	Short circuit current (1s)	Current carrying capacity in air - trefoil *1	Current carrying capacity in ground - trefoil *2	Inductance - trefoil
mm²		Ω/km	kA	A	A	mH/km
1x25	RMV	0,727	2,87	112	137	0,330
1x35	RMV	0,524	4,02	138	165	0,312
1x50	RMV	0,387	5,74	168	196	0,305
1x70	RMV	0,268	8,04	214	241	0,289
1x95	RMV	0,193	10,91	264	289	0,282
1x120	RMV	0,153	13,78	306	329	0,274
1x150	RMV	0,124	17,23	353	370	0,270
1x185	RMV	0,0991	21,25	408	418	0,265
1x240	RMV	0,0754	27,56	487	483	0,263
1x300	RMV	0,0601	34,45	566	547	0,258
1x400	RMV	0,0470	41,06	652	618	0,251
1x500	RMV	0,0366	51,33	761	700	0,247

*1 Air temperature: 30 °C; Cable distance: 0 mm
*2 Ground temperature: 20 °C; Thermal resistivity of ground: 1,0 K.m/W; Depth of cable laying: 0,7 m; Cable distance: 0 mm

This data was prepared with due diligence and in good faith for informational purposes only and does not contain any representations, legally binding declarations or guarantees unless otherwise agreed in writing by NKT. NKT® is a registered trademark of NKT. © The copyright of this document is vested in NKT. All rights reserved at the time of issuance.