



NY2Y

Low Voltage Cables



DESCRIPTION

Reliable under heavy load The NY2Y is a low-voltage cable for use in power plants, industrial facilities, switching stations, and local distribution networks. It is suitable for fixed installation indoors, in cable ducts, outdoors, in water, and underground - wherever strong mechanical stress is expected during installation and operation. The construction complies with TP PRAKAB 16/03 based on VDE 0276-603. Detailed construction The cable consists of a copper conductor, available as solid round (RE), stranded round (RM), or sector-shaped stranded (SM). The PVC core insulation ensures electrical safety, while the cores are stranded together and protected by a common EPDM sheath. The outer sheath made of HDPE (black, UV-resistant) makes the NY2Y particularly resistant to abrasion, moisture, and environmental influences. Typical applications NY2Y is ideally suited for applications with increased requirements for mechanical strength and weather resistance. Typical fields of use include power distribution in industrial plants, power stations, or transformer stations - but also in environments with moisture, direct sunlight, or chemical exposure.

TECHNICAL DATA

Bending radius (mm)	15/12xD mm	CPR class	Fca
Maximal operating conductor temperature (°C)	70 °C	Maximal short-circuit temperature (°C)	300 mm ² : +140 °C
Minimal storage temperature (°C)	-35 °C	Minimal temperature for laying (°C)	-5 °C
Operating temperature range (°C)	-35-+70 °C	Rated voltage (kV)	0.6/1 kV
Self-extinguishing of single cable	no	Test voltage (kV)	4 kV



CROSS-SECTION DATA — 0.6/1 kV

Cores & CS	Cond.	Shape	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x10	Cu	RE	1.83	1	1.8	12xD	10	157
1x16	Cu	RE	1.15	1	1.8	12xD	11	219
1x25	Cu	RMV	0.727	1.2	1.8	12xD	12	329
1x35	Cu	RMV	0.524	1.2	1.8	12xD	14	429
1x50	Cu	RMV	0.387	1.4	1.8	12xD	15	565
1x70	Cu	RMV	0.268	1.4	1.8	12xD	17	772
1x95	Cu	RMV	0.193	1.6	1.8	12xD	19	1042
1x120	Cu	RMV	0.153	1.6	1.8	12xD	20	1278
1x150	Cu	RMV	0.124	1.8	1.8	12xD	22	1571
1x185	Cu	RMV	0.0991	2	1.8	12xD	25	1947
1x240	Cu	RMV	0.0754	2.2	1.8	12xD	27	2514
1x300	Cu	RMV	0.0601	2.4	1.9	12xD	30	3130
1x400	Cu	RMV	0.047	2.6	2	12xD	34	3972
1x500	Cu	RMV	0.0366	2.8	2.1	12xD	37	5043
3x10	Cu	RE	1.83	1	1.8	12xD	18	589
3x16	Cu	RE	1.15	1	1.8	12xD	20	810
3x25	Cu	RMV	0.727	1.2	1.8	12xD	24	1227
3x35	Cu	SM	0.524	1.2	1.8	12xD	25	1464
3x50	Cu	SM	0.387	1.4	1.8	12xD	28	1887
3x70	Cu	SM	0.268	1.4	2	12xD	31	2584
3x95	Cu	SM	0.193	1.6	2.1	12xD	36	3448
3x120	Cu	SM	0.153	1.6	2.2	12xD	38	4199
3x150	Cu	SM	0.124	1.8	2.3	12xD	43	5178
3x185	Cu	SM	0.0991	2	2.5	12xD	47	6381
3x240	Cu	SM	0.0754	2.2	2.7	12xD	53	8264
3x35+16	Cu	SM/RE	0.524	1.2/1.0	1.8	12xD	27	1698