



NA2X2Y

Low Voltage Cables



DESCRIPTION

Optimal for mechanically demanding applications The NA2X2Y complies with DIN VDE 0276-603 (HD 603) and is designed for fixed installation indoors, in cable ducts, underground, in water, or outdoors. It is primarily used in power plants, industrial facilities, and switching stations as well as local distribution networks - wherever robust cables are needed that can withstand high mechanical stress during installation and operation.

Construction and properties The electrical conductor consists of aluminium, available as solid round (RE), stranded round (RM), or sector-shaped (SE/SM). The cores are PE-insulated, stranded together, and protected by a common EPDM sheath. The outer sheath is made of HDPE, black, UV-resistant, and highly resistant to abrasion, pressure, and moisture - ideal for long-term installations in demanding environments.

Application benefits NA2X2Y cables provide a technically robust and cost-efficient solution for power distribution in networks with increased requirements. Their high mechanical strength and weather resistance make them the first choice for demanding infrastructure applications in the energy and industrial sectors.

TECHNICAL DATA

Bending radius (mm)	15/12xD mm	CPR class	Fca
Maximal operating conductor temperature (°C)	90 °C	Maximal short-circuit temperature (°C)	250 °C
Minimal storage temperature (°C)	-35 °C	Minimal temperature for laying (°C)	-20 °C
Operating temperature range (°C)	-35-+90 °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]
1x16	Al	RE	1.91	0.7	1.8	12xD	10	104
1x25	Al	RE	1.2	0.9	1.8	12xD	12	144
1x35	Al	RE	0.868	0.9	1.8	12xD	13	179
1x50	Al	RMV	0.641	1	1.8	12xD	14	232
1x70	Al	RMV	0.443	1.1	1.8	12xD	16	309
1x95	Al	RMV	0.32	1.1	1.8	12xD	18	394
1x120	Al	RMV	0.253	1.2	1.8	12xD	20	479
1x150	Al	RMV	0.206	1.4	1.8	12xD	22	587
1x185	Al	RMV	0.164	1.6	1.8	12xD	24	722
1x240	Al	RMV	0.125	1.7	1.8	12xD	26	908
1x300	Al	RMV	0.1	1.8	1.8	12xD	29	1102
1x400	Al	RMV	0.0078	2	1.9	12xD	32	1398
1x500	Al	RMV	0.065	2.2	2	12xD	36	1763
3x16	Al	RE	1.91	0.7	1.8	12xD	19	454
3x25	Al	RE	1.2	0.9	1.8	12xD	22	634
3x35	Al	RE	0.868	0.9	1.8	12xD	25	788
3x50	Al	SM	0.641	1	1.8	12xD	26	870
3x70	Al	SM	0.443	1.1	1.9	12xD	30	1170
3x95	Al	SM	0.32	1.1	2	12xD	33	1463
3x120	Al	SM	0.253	1.2	2.1	12xD	39	1802
3x150	Al	SM	0.206	1.4	2.3	12xD	41	2184
3x185	Al	SM	0.164	1.6	2.4	12xD	45	2647
3x240	Al	SM	0.125	1.7	2.6	12xD	51	3362
3x35+16	Al	RE	0.868	0.9/0.7	1.8	12xD	25	855
3x70+35	Al	SM	0.268	1.1/0.9	1.9	12xD	32	2828
3x95+50	Al	SM	0.193	1.1/1.0	2.1	12xD	37	3757
3x120+70	Al	SM	0.153	1.2/1.1	2.2	12xD	40	4707
3x150+70	Al	SM	0.124	1.4/1.1	2.3	12xD	45	5675
3x185+95	Al	SM	0.0991	1.6/1.1	2.5	12xD	49	7071
3x240+120	Al	SM	0.0754	1.7/1.2	2.7	12xD	56	9138
4x10	Al	RE	1.83	0.7	1.8	12xD	18	642
4x16	Al	RE	1.15	0.7	1.8	12xD	21	910
4x25	Al	RMV	0.727	0.9	1.8	12xD	25	1391
4x35	Al	RMV	0.524	0.9	1.8	12xD	28	1834
4x50	Al	SM	0.387	1	1.9	12xD	29	2255
4x70	Al	SM	0.268	1.1	2	12xD	33	3158



4x95	Al	SM	0.193	1.1	2.1	12xD	37	4200
4x120	Al	SM	0.153	1.2	2.3	12xD	41	5259
4x150	Al	SM	0.124	1.4	2.4	12xD	46	6439
4x185	Al	SM	0.0991	1.6	2.6	12xD	51	7967
4x240	Al	SM	0.0754	1.7	2.8	12xD	57	10324
5x10	Al	RE	1.83	0.7	1.8	12xD	20	767
5x16	Al	RE	1.15	0.7	1.8	12xD	22	1100
5x25	Al	RMV	0.727	0.9	1.8	12xD	27	1676
5x35	Al	RMV	0.524	0.9	1.8	12xD	31	2266
5x50	Al	SM	0.387	1	2	12xD	33	2877
5x70	Al	SM	0.268	1.1	2.1	12xD	38	3979
5x95	Al	SM	0.193	1.1	2.3	12xD	42	5342
5x120	Al	SM	0.153	1.2	2.4	12xD	47	6625