



N2XY

Low Voltage Cables



DESCRIPTION

The N2XY cable is an unarmoured low-voltage cable for power and control applications up to 0.6/1 kV. It is suitable for fixed installation in buildings, outdoors, in humid environments, and for direct burial - wherever no special mechanical stresses occur.

TECHNICAL DATA

Bending radius (mm)	15/12xD	Colour of insulation	HD 308 S2
Colour of sheath	black	Conductor	CU
CPR class	Eca	CUScreen	No
Insulation	XLPE	Maximal operating conductor temperature (°C)	90
Maximal short-circuit temperature (°C)	250	Minimal storage temperature (°C)	-35
Minimal temperature for laying (°C)	-5	Operating temperature range (°C)	-35-+90
Packaging	cable drums	Rated voltage (kV)	0.6/1
RoHS/REACH	yes/yes	Self-extinguishing of single cable	IEC 60332-1-2
Sheath	PVC	Test voltage (kV)	4



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CROSS-SECTION DATA — 0.6/1 kV

Voltage 0.6/1 kV	Test voltage 4 kV	Operating temperature range -35-+90 °C
Conductor temperature (max.) 90 °C	Short-circuit temperature (max.) 250 °C	Minimum laying temperature -5 °C
Minimum storage temperature -35 °C	CPR class Eca	Flame retardant IEC 60332-1-2

Designation	Cond.	DI [mm]	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x10	Cu	~5.4	1.83	0.7	1.8	12xD	9	166
1x16	Cu	~6.4	1.15	0.7	1.8	12xD	10	229
1x25	Cu	~8.4	0.727	0.9	1.8	12xD	12	336
1x35	Cu	~9.4	0.524	0.9	1.8	12xD	13	436
1x50	Cu	~10.4	0.387	1	1.8	12xD	14	562
1x70	Cu	~12.4	0.268	1.1	1.8	12xD	16	774
1x95	Cu	~14.4	0.193	1.1	1.8	12xD	18	1027
1x120	Cu	~16.4	0.153	1.2	1.8	12xD	20	1267
1x150	Cu	~18.4	0.124	1.4	1.8	12xD	22	1555
1x185	Cu	~20.4	0.0991	1.6	1.8	12xD	24	1922
1x240	Cu	~22.4	0.0754	1.7	1.8	12xD	26	2471
1x300	Cu	~25.4	0.0601	1.8	1.8	12xD	29	3055
1x400	Cu	~28.2	0.047	2	1.9	12xD	32	3880
1x500	Cu	~32	0.0366	2.2	2	12xD	36	4938
3x10	Cu	~13.4	1.83	0.7	1.8	12xD	17	581
3x16	Cu	~15.4	1.15	0.7	1.8	12xD	19	800
3x25	Cu	~19.4	0.727	0.9	1.8	12xD	23	1193
3x35	Cu	~22.4	0.524	0.9	1.8	12xD	26	1553
3x50	Cu	~22.4	0.387	1	1.8	12xD	26	1815
3x70	Cu	~26.2	0.268	1.1	1.9	12xD	30	2519
3x95	Cu	~29	0.193	1.1	2	12xD	33	3319
3x120	Cu	~32.8	0.153	1.2	2.1	12xD	37	4089
3x150	Cu	~36.4	0.124	1.4	2.3	12xD	41	5077
3x185	Cu	~40.2	0.0991	1.6	2.4	12xD	45	6233
3x240	Cu	~45.8	0.0754	1.7	2.6	12xD	51	8067



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Designation	Cond.	DI [mm]	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
3x25+16	Cu	~20.4	0.727	0.9/0.7	1.8	12xD	24	1357
3x35+16	Cu	~22.4	0.524	0.9/0.7	1.8	12xD	26	1658
3x50+25	Cu	~25.4	0.387	1.0/0.9	1.8	12xD	29	2170
3x70+35	Cu	~28.2	0.268	1.1/0.9	1.9	12xD	32	2932
3x95+50	Cu	~32.8	0.193	1.1/1.0	2.1	12xD	37	3897
3x120+70	Cu	~35.6	0.153	1.2/1.1	2.2	12xD	40	4865
3x150+70	Cu	~40.4	0.124	1.4/1.1	2.3	12xD	45	5862
3x185+95	Cu	~44	0.0991	1.6/1.1	2.5	12xD	49	7293
3x240+120	Cu	~50.6	0.0754	1.7/1.2	2.7	12xD	56	9407
4x10	Cu	~14.4	1.83	0.7	1.8	12xD	18	698
4x16	Cu	~17.4	1.15	0.7	1.8	12xD	21	974
4x16	Cu	~17.4	1.15	0.7	1.8	12xD	21	995
4x25	Cu	~21.4	0.727	0.9	1.8	12xD	25	1469
4x35	Cu	~22.4	0.524	0.9	1.8	12xD	26	1818
4x50	Cu	~25.2	0.387	1	1.9	12xD	29	2354
4x70	Cu	~29	0.268	1.1	2	12xD	33	3268
4x95	Cu	~32.8	0.193	1.1	2.1	12xD	37	4341
4x120	Cu	~36.4	0.153	1.2	2.3	12xD	41	5429
4x150	Cu	~41.2	0.124	1.4	2.4	12xD	46	6637
4x185	Cu	~45.8	0.0991	1.6	2.6	12xD	51	8188
4x240	Cu	~51.4	0.0754	1.7	2.8	12xD	57	10609
5x10	Cu	~16.4	1.83	0.7	1.8	12xD	20	829
5x16	Cu	~18.4	1.15	0.7	1.8	12xD	22	1169
5x16	Cu	~19.4	1.15	0.7	1.8	12xD	23	1188
5x25	Cu	~23.4	0.727	0.9	1.8	12xD	27	1795
5x35	Cu	~27.4	0.524	0.9	1.8	12xD	31	2363
5x50	Cu	~31	0.387	1	2	12xD	35	3154
5x70	Cu	~33.8	0.268	1.1	2.1	12xD	38	4146
5x95	Cu	~37.4	0.193	1.1	2.3	12xD	42	5516
5x120	Cu	~42.2	0.153	1.2	2.4	12xD	47	6805