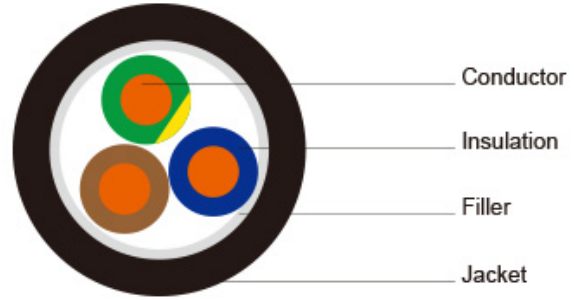


German Standard Industrial Cables N2XY



Application and Description

N2XY power cables with insulation of cross-linked polyethylene (XLPE) are designed for distribution and supply of consumers with nominal voltage 0.6/1 kV and frequency 50 Hz in industrial installations and urban networks. They are suitable for fixed indoor assembly in cable ducts and conduits, over shelves and grilles, directly underground in ditch and outdoor under shelters providing the conditions determined for the type of cable.

Standard and Approval

VDE-0276 Part-603, HD 603.1, IEC 60502, VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1, CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

Cable Construction

- Solid or stranded, plain copper conductor
- to DIN VDE 0295 cl. 1 or cl. 2, BS 6360 cl. 1 or cl. 2 and IEC 60228 cl. 1 or cl. 2
- XLPE insulation type DIX3 acc. to VDE 0276-603/5G
- Color coded to DIN VDE 0293(HD 308)
- PVC filler
- PVC outer jacket DMV6 to HD 603.1

Technical Characteristics

- Working voltage: 600/1000 volts
- Test voltage: 4000 volts
- Minimum bending radius: 15 x Ø
- Flexing temperature: -5° C to +70° C
- Fixed installation temperature: - 30° C to +70° C
- Short circuit temperature: +250° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Cable Parameter

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA # X MM ²	CONDUCTOR TYPE	THICKNESS OF INSULATION MM	THICKNESS OF SHEATH MM	NOMINAL OVERALL DIAMETER MM	COPPER WEIGHT KG / KM	CABLE WEIGHT KG / KM
6	1x16	rm	0.7	1.8	11.0	144	230
4	1x25	rm	0.9	1.8	12.5	228	340
2	1x35	rm	0.9	1.8	13.5	317	445
1	1x50	rm	1.0	1.8	15.5	454	605

2/0	1x70	rm	1.1	1.8	17.0	656	800
3/0	1x95	rm	1.1	1.8	19.0	911	1065
4/0	1x120	rm	1.2	1.8	21.0	1147	1320
300mcm	1x150	rm	1.4	1.8	23.0	1415	1610
350mcm	1x185	rm	1.6	1.8	25.5	1770	1925
500mcm	1x240	rm	1.7	1.8	28.5	2327	2483
750mcm	1x300	rm	1.8	1.8	31.0	2887	3058
-	1x400	rm	2.0	1.9	35.0	3692	3887
-	1x500	rm	2.2	2.0	38.5	4725	4937
6	2x16	rm	0.7	1.8	19.5	294	645
4	2x25	rm	0.9	1.8	23.0	466	945
2	2x35	rm	0.9	2.0	25.5	646	1235
1	2x50	rm	1.0	2.0	29.0	924	1680
6	3x16	rm	0.7	1.8	20.5	441	805
4	3x25	rm	0.9	2.0	24.5	699	1220
2	3x35	rm	0.9	2.0	27.0	969	1575
1	3x50	sm	1.0	2.0	24.5	1387	1765
2/0	3x70	sm	1.1	2.0	28.0	1897	2350
3/0	3x95	sm	1.1	2.0	31.0	2631	3145
4/0	3x120	sm	1.2	2.0	34.0	3324	3915
300mcm	3x150	sm	1.4	2.2	37.0	4084	4820
350mcm	3x185	sm	1.6	2.2	42.0	5123	6045
500mcm	3x240	sm	1.7	2.6	47.5	6733	7885
12	3x4.0+2.5	re	0.7/0.7	1.8	13.5	135	328
10	3x6.0+4	re	0.7/0.7	1.8	15.0	205	445
8	3x10+6	re	0.7/0.7	1.8	17.0	338	611
6	3x16+10	re	0.7/0.7	1.8	20.	541	868
4	3x25+16	rm	0.9/0.7	2.0	27.0	846	1405
2	3x35+16	rm	0.9/0.7	2.0	29.5	1116	1765
1	3x50+25	sm/rm	1.0/0.9	2.0	28.5	1620	2075
2/0	3x70+35	sm/rm	1.1/0.9	2.0	33.0	2220	2650
3/0	3x95+50	sm/rm	1.1/1.0	2.2	36.5	3093	3615
4/0	3x120+70	sm/rm	1.2/1.1	2.2	39.0	3956	4690
300mcm	3x150+70	sm/rm	1.4/1.1	2.2	44.0	4716	5630
350mcm	3x185+95	sm/rm	1.6/1.1	2.6	48.5	6000	7150
500mcm	3x240+120	sm/rm	1.7/1.2	3.0	57.0	7841	9305
6	4x16	rm	0.7	1.8	22.0	588	985
4	4x25	rm	0.9	2.0	27.0	932	1500

2	4x35	rm	0.9	2.0	29.5	1292	1955
1	4x50	sm	1.0	2.0	28.5	1850	2320
2/0	4x70	sm	1.1	2.0	33.0	2530	3100
3/0	4x95	sm	1.1	2.2	36.5	3508	4180
4/0	4x120	sm	1.2	2.2	39.0	4433	5200
300mcm	4x150	sm	1.4	2.2	44.0	5446	6410
350mcm	4x185	sm	1.6	2.6	48.5	6831	8050