

0.6/1kV NA2XY Cable Aluminium XLPE PVC



APPLICATION

For fixed installation in buildings, in free air, in ground and in water.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

AC: 0.6/1 (1.2)kV

DC 0.9/1.8kV

Test Voltage

4kV

Temperature Rating

Flexed: 5° C to +90° C

Fixed: -35° C to +90° C

Maximum Short Circuit Temperature

+250° C (max 5 seconds)

Minimum Bend Radius

Single core: 15 x overall diameter

Multi core: 12 x overall diameter

STANDARDS

IEC 60502-1, Gen.toVDE 0276-603

Flame retardant according to IEC/EN 60332-1-2

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

Conductor

Class 2 stranded Aluminium* conductor

Insulation

XLPE (Cross-Linked Polyethylene)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

Black, Customized as needed

Core Identification

NA2XY-J

3 core: Blue Brown Green/Yellow

4 core: Brown Black Grey Green/Yellow

NA2XY-O

2 core: Blue Brown

3 core: Brown Black Grey

4 core: Brown Black Grey Blue

Note: Class 1 solid conductors available on request

DIMENSIONS

NO. OF CONDUCTOR	NOMINAL CROSS SECTIONAL AREA (mm ²)	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER (mm)	NOMINAL WEIGHT (kg/km)
1	25	RM	9.9	132
1	35	RM	11	166
1	50	RM	12.5	211
1	70	RM	14.1	283
1	95	RM	16.1	376
1	120	RM	17.5	456
1	150	RM	19.6	560
1	185	RM	21.8	697
1	240	RM	24	878
1	300	RM	26.7	1073
1	400	RM	29.7	1347
1	500	RM	33.1	1705
1	630	RM	42.8	2705
1	800	RM	47.9	3420
3	16	RM	16.3	364
3	25	RM	19.6	530
3	35	RM	22.1	684
3	35	SE	19	486
3	50	SM	22.4	655
3	50	SE	21.2	622
3	70	SM	26.1	903
3	70	SE	25.2	859
3	95	SM	29.1	1174
3	95	SE	27.8	1115
3	120	SM	32.2	1446
3	120	SE	30.8	1379
3	150	SM	36.2	1780
3	150	SE	33.9	1685
3	185	SM	40.1	2197
3	185	SE	37.6	2089
3	240	SM	44.9	2782
3	240	SE	41.8	2634
3	70 + 35	SM+SM	28.3	1044
3	120 + 70	SM+SM	35.1	1704
3	150 + 70	SM+SM	39.7	2065
3	185 + 95	SM+SM	43.7	2563
3	240 + 120	SM+SM	49.1	3237

DIMENSIONS

NO. OF CONDUCTOR	NOMINAL CROSS SECTIONAL AREA (mm ²)	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER (mm)	NOMINAL WEIGHT (kg/km)
4	25	RM	21.7	636
4	35	SM	22.4	649
4	35	SE	21.6	623
4	50	SM	25.4	845
4	50	SE	24.6	810
4	70	SM	29.7	1178
4	70	SE	28.8	1126
4	95	SM	33.3	1538
4	95	SE	32.1	1467
4	120	SM	37.2	1903
4	120	SE	35.5	1817
4	150	SM	41.3	2328
4	150	SE	39.4	2223
4	185	SM	45.7	2874
4	185	SE	43.4	2750
4	240	SM	51.2	3646
4	240	SE	48	3465
5	25	RM	23.9	763
5	35	RM	27	986
5	50	RM	31.3	1309
5	70	RM	35.8	1771
5	95	SM	36.5	1891
5	120	SM	39.2	2306
5	150	SM	45.4	2865
5	185	SM	50.1	3534
5	240	SM	55.2	4482

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity In Air

INSTALLATIONS NO. OF LOADED CORES NOMINAL CROSS SECTIONAL AREA (mm ²)	1-Core	3-Core	3-Core#
	LAYING IN AIR AT 30° C A		
25	136	102	106
35	166	126	130
50	205	149	161
70	260	191	204
95	321	234	252
120	376	273	295
150	431	311	339
185	501	360	395
240	600	427	472
300	696	507	547
400	821	600	643
500	971	695	754
630	1151	-	882
800	1355	-	1019

1) Rated Current for direct current systems with a far-distanced return conductor.
 * The above is taken from DIN VDE 0276-603, DIN VDE 0276-627, HD 603 51, HD 627 51. The conversion factors for deviating ambient temperature defined in DIN VDE 0298 P4

Current Carrying Capacity In Ground

INSTALLATIONS NO. OF LOADED CORES NOMINAL CROSS SECTIONAL AREA (mm ²)	1-Core	3-Core	3-Core#
	LAYING IN GROUND AT 30° C A		
25	177	112	114
35	212	135	136
50	252	158	162
70	310	196	199
95	372	234	238
120	425	268	272
150	476	300	305
185	541	342	347
240	631	398	404
300	716	457	457
400	825	529	525
500	952	609	601
630	1102	-	687
800	1267	-	776
1000	1448	-	865

1) Rated Current for direct current systems with a far-distanced return conductor.
Installation conditions:
Air Temperature 30° C
Ground Temperature 20° C
Soil thermal resistivity, dried-out soil 2.5 Km/W
Soil thermal resistivity, moist soil 1.0 Km/W
Laying depth 0.7 m

DE-RATING FACTORS

AMBIENT TEMPERATURE	10	10	20	25	30	35	40	45	50
RATING FACTOR	1.15	1.15	1.08	1.04	1.00	0.96	0.91	0.87	0.82