

1.8/3 (3.6)kV IEC 60502-1 NA2XY Cable AL/XLPE/PVC



APPLICATION

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

CHARACTERISTICS

Voltage Rating U_0/U (Um)

AC: 1.8/3 (3.6)kV

DC: 2.7/5.4 kV

Temperature Rating

Maximum Conductor Operating Temperature: +90°C

Maximum Conductor Temperature During S.C: +250° C

Minimum Bend Radius

15 x overall diameter

STANDARDS

IEC 60502-1, IEC 60228, UV resistant ISO 4892

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 Plain Aluminium Circular Compact Conductor

Insulation

XLPE (Cross-Linked Polyethylene)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

Black, Customized as needed

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA	NOMINAL OUTER DIAMETER	NOMINAL WEIGHT
	(mm ²)	(mm)	(kg/km)
1	16	10.9	140
1	25	12	180
1	35	13.1	215
1	50	14.4	265
1	70	16.2	350
1	95	17.7	430
1	120	19.3	530
1	150	21.5	635
1	185	22.6	750
1	240	25.2	935
1	300	27.5	1125
1	400	30.4	1410
1	500	34.3	1775
1	630	38.4	2280
1	800	43.8	2945
1	1000	50.7	3710

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA (mm ²)	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C (Ω /Km)	MAXIMUM CONDUCTOR AC RESISTANCE AT 50 Hz (Ω /Km)	CURRENT RATING		
			Laid in ground	Laid in duct	Laid in free air
16	1.91	2.435	102	74	85
25	1.2	1.53	131	96	112
35	0.868	1.107	157	115	137
50	0.641	0.817	185	137	166
70	0.443	0.565	227	170	210
95	0.32	0.408	271	205	257
120	0.253	0.323	309	236	300
150	0.206	0.263	346	267	343
185	0.164	0.209	393	306	398
240	0.125	0.159	456	361	475
300	0.1	0.128	516	414	551
400	0.0778	0.099	590	478	648
500	0.0605	0.077	673	557	763
630	0.0469	0.06	765	645	892
800	0.0367	0.047	863	740	1039
1000	0.0291	0.037	961	845	1200

Laying conditions at trefoil formation are as below:
-Soil thermal resistivity: 120°C.Cm/Watt
-Burial depth: 0.5m
-Ground temperature: 15° C | Air temperature: 25° C | Frequency: 50Hz