

NA2XS2Y 18/30 (36)kV Cable



APPLICATION

Medium voltage power cables for distribution networks and generation units, suitable for external installation including in direct in ground and in buried cable ducts. UV Resistant.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

18/30 (36)kV

Test Voltage

63kV AC 50Hz (5 mins)

Temperature Rating

-20°C to +60°C

Permissible Conductor Operating Temperature: +90°C

Permissible Short Circuit Temperature up to 5 sec: 250°C

Minimum Bending Radius

15 x overall diameter

STANDARDS

IEC 60502-2, EN 60228

UV Resistant: ISO 4892-3

Abrasion and Tear Resistant: EN 60229-4.1

Impact rated to: AG2 EN 60364-5.51

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 Screen

Semi-conductive material

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductive material (bonded)

Screen

Copper wires and copper tape

Outer Sheath

MDPE (Medium Density Polyethylene)

Sheath Colour

● Black

DIMENSIONS

NO. OF CORE	NOMINAL CROSS SECTIONAL AREA mm ²		NOMINAL CONDUCTOR DIAMETER	NUMBER WIRES CONDUCTOR	NOM. THICKNESS SEMI-CON. LAYER		NOMINAL INSULATION THICKNESS	MINIMUM INSULATION THICKNESS	NOMINAL DIAMETER OVER INSULATION
	Conductor	Screen	mm	mm	INNER mm	OUTER mm	mm	mm	mm
1	50	16	8.20	7*2.90	0.50	0.40	8.00	7.10	25.2
1	70	16	9.70	19*2.18	0.50	0.40	8.00	7.10	26.7
1	95	16	11.4	19*2.55	0.50	0.40	8.00	7.10	28.4
1	120	16	12.65	19*2.90	0.50	0.40	8.00	7.10	29.7
1	150	25	14.4	19*3.16	0.50	0.40	8.00	7.10	31.4
1	185	25	15.75	37*2.55	0.50	0.40	8.00	7.10	33.2
1	240	25	18.2	37*2.90	0.50	0.40	8.00	7.10	35.7
1	300	25	20.5	61*2.55	0.50	0.40	8.00	7.10	38.0
1	400	35	23.0	61*2.90	0.50	0.40	8.00	7.10	40.5
1	500	35	26.0	61*3.20	0.50	0.40	8.00	7.10	43.5
1	630	35	30.2	61*3.65	0.50	0.40	8.00	7.10	47.7

NOMINAL CROSS SECTIONAL AREA mm ²	NUMBER WIRES SCREEN mm	DIAMETER TAPE SCREEN mm	NOMINAL SHEATH THICKNESS mm	MINIMUM SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MAXIMUM SIDEWALL PRESSURE N/CM ²	MAXIMUM PULLING TENSION N
50	44*0.66	1*0.1*10	2.00	1.40	32	900	255	1500
70	44*0.66	1*0.1*10	2.00	1.40	33	1100	328	2100
95	44*0.66	1*0.1*10	2.10	1.48	35	1200	409	2850
120	44*0.66	1*0.1*10	2.10	1.48	36	1300	493	3600
150	71*0.66	1*0.1*10	2.20	1.56	38	1500	573	4500
185	71*0.66	1*0.1*10	2.20	1.56	40	1700	664	5550
240	71*0.66	1*0.1*10	2.30	1.64	43	1900	784	7200
300	71*0.66	1*0.1*10	2.40	1.72	45	2250	916	9000
400	60*0.85	1*0.1*15	2.50	1.80	48	2750	1127	12000
500	60*0.85	1*0.1*15	2.60	1.88	51	3000	1299	15000
630	60*0.85	1*0.1*15	2.70	1.96	56	3500	1462	18900

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR DC RESISTANCE AT 20°C ohms/km	CONDUCTOR DC RESISTANCE AT 75°C ohms/km	CONDUCTOR AC RESISTANCE BY MAX TEMP ohms/km	CURRENT CARRYING CAPACITY (A)		REACTANCE ohms/km	CHARGING ADMITTANCE A/km	CAPACITANCE uF/km	S.C.C CONDUCTOR 1SEC kA	S.C.C SCREEN 1SEC kA	CONDUCTOR LOSSES IN THE GROUND kW/km	NOMINAL CROSS SECTIONAL AREA mm ²
				In Ground 20°C	InAir 30°C							
50	0.641	1.32	0.825	196	217	0.20	0.43	0.12	4.70	3.2	31.7	50
70	0.443	0.917	0.57	238	270	0.19	0.41	0.13	6.58	3.2	32.3	70
95	0.32	0.662	0.412	284	328	0.19	0.39	0.14	8.93	3.2	33.2	95
120	0.258	0.524	0.328	322	378	0.18	0.38	0.15	11.28	3.2	34.0	120
150	0.203	0.426	0.268	355	425	0.18	0.36	0.17	14.10	5.0	33.8	150
185	0.164	0.339	0.213	400	485	0.18	0.35	0.18	17.39	5.0	34.1	185
240	0.125	0.258	0.160	461	572	0.17	0.33	0.20	22.56	5.0	34.6	240
300	0.100	0.207	0.1320	516	649	0.17	0.32	0.22	28.20	5.0	35.1	300
400	0.0778	0.161	0.1030	572	737	0.16	0.32	0.24	37.60	7.1	33.7	400
500	0.0605	0.125	0.0810	638	835	0.16	0.30	0.26	47.00	7.1	33.0	500
630	0.0469	0.0972	0.0640	860	1080	0.15	0.29	0.29	59.22	7.1	47.3	630

Derating factor (ground): 1 (Soil thermal resistivity: 1km/W, Depth 0.8m, Flat formation - touching)

Derating factor (air): 1 (Flat formation - touching)