

NA2XSH 6/10 (12)kV Cable



APPLICATION

UV resistant Medium voltage cables for distribution networks; also for connection to generation units and plant and process connection. LSZH outer sheath allows internal and external installation including directly in ground and in cable ducts.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

6/10 (12)kV

Temperature Rating

Permissible operating temperature of conductor: +90°C

Permissible short-circuit temperature up to 5 sec: +250°C

Minimum Bending Radius

15 x overall diameter

STANDARDS

IEC 60502-2,

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

Low Smoke Zero Halogen according to IEC/EN 61034-1/2,

IEC/EN 60754-1/2

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 Screen

Semi-conductive material

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductive material

Filler

LSZH (Low Smoke Zero Halogen)

Screen

Copper Wires and Copper Tape

Sheath

LSZH (Low Smoke Zero Halogen) - UV Resistant

Sheath Colour

● Red

DIMENSIONS

NO. OF CORE	NOMINAL CROSS SECTIONAL AREA		NOMINAL Conductor DIAMETER	NUMBER WIRES CONDUCTOR	NOMINAL THCKNESS SEMI-CON. LAYER		NOMINAL INSULATION THICKNESS	MINIMUM INSULATION THICKNESS	NOMINAL DIAMETER OVER INSULATION
	Conductor	Screen			INNER	OUTER			
			mm	mm	mm	mm	mm	mm	mm
1	50	16	8.20	7*2.90	0.50	0.40	3.40	2.96	16.4
1	70	16	9.70	19*2.18	0.50	0.40	3.40	2.96	17.9
1	95	16	11.4	19*2.55	0.50	0.40	3.40	2.96	19.6
1	120	16	12.65	19*2.90	0.50	0.40	3.40	2.96	20.9
1	150	25	14.4	19*3.16	0.50	0.40	3.40	2.96	22.6
1	185	25	15.75	37*2.55	0.50	0.40	3.40	2.96	24.4
1	240	25	18.2	37*2.90	0.50	0.40	3.40	2.96	26.9
1	300	25	20.5	61*2.55	0.50	0.40	3.40	2.96	29.2
1	400	35	23.0	61*2.90	0.50	0.40	3.40	2.96	31.7
1	500	35	26.0	61*3.20	0.50	0.40	3.40	2.96	34.7
1	630	35	30.2	61*3.65	0.50	0.40	3.40	2.96	38.9

NOMINAL CROSS SECTIONAL AREA	NUMBER WIRES SCREEN	DIAMETER TAPE SCREEN	NOMINAL SHEATH THICKNESS	MINIMUM SHEATH THICKNESS	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT	MAXIMUM SIDEWALL PRESSURE	MAXIMUM PULLING TENSION
mm ²	mm	mm	mm	mm	mm	kg/km	N/cm ²	N
50	44*0.66	1*0.1*10	1.80	1.24	23	550	331	1500
70	44*0.66	1*0.1*10	1.80	1.24	24	650	415	2100
95	44*0.66	1*0.1*10	1.80	1.24	26	750	522	2850
120	44*0.66	1*0.1*10	1.80	1.24	27	850	621	4500
150	71*0.66	1*0.1*10	1.90	1.32	29	1100	708	7500
185	71*0.66	1*0.1*10	1.90	1.32	31	1200	809	5550
240	71*0.66	1*0.1*10	2.00	1.40	33	1400	938	7200
300	71*0.66	1*0.1*10	2.10	1.48	36	1600	1081	9000
400	60*0.85	1*0.1*1.5	2.20	1.56	39	2000	1311	12000
500	60*0.85	1*0.1*1.5	2.30	1.64	42	2500	1471	15000
630	60*0.85	1*0.1*1.5	2.40	1.72	46	3000	1654	18900

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR DC RESISTANCE AT 20°C Ω/km	CONDUCTOR DC RESISTANCE AT 75°C Ω/km	CONDUCTOR AC RESISTANCE BY MAX TEMP. Ω/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
				In Ground 20°C	In Air 30°C						
50	0.641	1.32	0.825	194	215	0.18	0.35	0.22	4.70	3.2	31.0
70	0.443	0.917	0.57	236	269	0.17	0.33	0.24	6.58	3.2	31.7
95	0.32	0.662	0.412	281	327	0.17	0.32	0.28	8.93	3.2	32.5
120	0.258	0.524	0.328	318	377	0.16	0.31	0.30	11.28	3.2	33.2
150	0.203	0.426	0.268	350	424	0.16	0.30	0.33	14.10	5.0	32.8
185	0.165	0.339	0.213	393	485	0.16	0.29	0.36	17.39	5.0	32.9
240	0.125	0.258	0.1600	453	573	0.15	0.28	0.40	22.56	5.0	33.4
300	0.100	0.207	0.1320	507	652	0.15	0.28	0.45	28.20	5.0	33.9
400	0.0778	0.161	0.1030	559	741	0.15	0.27	0.49	37.60	7.1	32.2
500	0.0605	0.125	0.0810	622	838	0.15	0.26	0.54	47.00	7.1	31.3
630	0.0469	0.0972	0.0640	860	1080	0.14	0.25	0.62	59.22	7.1	47.3

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

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