

NA2XS(FL)H 18/30 (36)kV Cable



APPLICATION

Medium voltage power cables for distribution networks and generation units. LSZH outer sheathing makes the cable suitable for internal installation as well as directly in ground, outdoors, and in cable ducts. UV Resistant.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

18/30 (36)kV

Test Voltage:

63kV AC 50Hz (15 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, IEC 60228,

Low Smoke Zero Halogen: IEC 60754-1/2, IEC 61034-2

Flame Retardant: EN 60332-3-24 Cat C, IEC 60332-1-2

UV Resistant: EN 50396

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)

Longitudinal Waterblocking

Semi-conductive swellable tape

Screen

Copper Wires and copper tape

Longitudinal Waterblocking

Swellable Tapes

Radial Waterblocking

Al/PET (Aluminium/Polyester) tape tightly bonded to sheath

Outer Sheath

LSZH (Low Smoke Zero Halogen)

Sheath Colour

● Black

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			
1	50	16	8.20	7*2.90	0.50	0.40	8	7.1	25.2
1	70	16	9.70	19*2.18	0.50	0.40	8	7.1	26.7
1	95	16	11.4	19*2.55	0.50	0.40	8	7.1	28.4
1	120	16	12.65	19*2.90	0.50	0.40	8	7.1	29.7
1	150	25	14.4	19*3.16	0.50	0.40	8	7.1	31.4
1	185	25	15.75	37*2.55	0.50	0.40	8	7.1	33.2
1	240	25	18.2	37*2.90	0.50	0.40	8	7.1	35.7
1	300	25	20.5	61*2.55	0.50	0.40	8	7.1	38.0
1	400	35	23.0	61*2.90	0.50	0.40	8	7.1	40.5
1	500	35	26.0	61*3.20	0.50	0.40	8	7.1	43.5
1	630	35	30.2	61*3.65	0.50	0.40	8	7.1	47.7

NOMINAL CROSS SECTIONAL AREA	NUMBER WIRES SCREEN	DIAMETER TAPE SCREEN	NOMINAL SHEATH THICKNESS	MINIMUM SHEATH THICKNESS	NOMINAL OVERALL DIAMTER	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	2.0	1.40	32	1100	249	1500
70	44*0.66	1*0.1*10	2.0	1.40	34	1200	320	2100
95	44*0.66	1*0.1*10	2.1	1.48	36	1300	401	2850
120	44*0.66	1*0.1*10	2.1	1.48	37	1400	483	3600
150	71*0.66	1*0.1*10	2.2	1.56	39	1700	562	4500
185	71*0.66	1*0.1*10	2.2	1.56	41	1800	652	5550
240	71*0.66	1*0.1*10	2.3	1.64	43	2250	784	7200
300	71*0.66	1*0.1*10	2.4	1.72	46	2500	902	9000
400	60*0.85	1*0.1*1.5	2.5	1.80	49	2750	1111	12000
500	60*0.85	1*0.1*1.5	2.6	1.88	52	3250	1282	15000
630	60*0.85	1*0.1*1.5	2.7	1.96	56	3750	1462	18900

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR	CONDUCTOR	CONDUCTOR	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
	DC RESISTANCE AT 20°C Ω/km	DC RESISTANCE AT 75°C Ω/km	CONDUCTOR AC RESISTANCE BY MAX TEMP. Ω/km	In Ground 20°C	In Air 30°C						
50	0.641	1.32	0.825	196	217	0.20	0.43	0.12	4.70	3.2	31.7
70	0.443	0.917	0.57	238	270	0.19	0.41	0.13	6.58	3.2	32.3
95	0.32	0.662	0.412	284	328	0.19	0.39	0.14	8.98	3.2	33.2
120	0.258	0.524	0.328	322	378	0.18	0.38	0.15	11.28	3.2	34.0
150	0.203	0.426	0.268	355	425	0.18	0.36	0.17	14.10	5.0	33.8
185	0.164	0.339	0.213	400	485	0.18	0.35	0.18	17.39	5.0	34.1
240	0.125	0.258	0.1600	461	572	0.17	0.33	0.20	22.56	5.0	34.6
300	0.1000	0.207	0.1320	516	649	0.17	0.32	0.22	28.20	5.0	35.1
400	0.0778	0.161	0.1030	572	737	0.16	0.32	0.24	37.60	7.1	33.7
500	0.0605	0.125	0.0810	638	835	0.16	0.30	0.26	47.00	7.1	33.0
630	0.0469	0.0972	0.0640	860	1080	0.15	0.29	0.29	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)