

N2XS2Y 6/10 (12)kV Cable



APPLICATION

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

CHARACTERISTICS

Voltage Rating U_0/U (U_m)
6/10 (12)kV

Temperature Rating
Maximum conductor operating temperature: 90°C
Initial temperature at S.C.C for metallic screen: 80°C
Maximum conductor temperature during S.C: 250°C

Minimum Bending Radius
20 x overall diameter

STANDARDS

IEC 60502-2, IEC 60228,
UV Resistant

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 Copper

Conductor Screen
Semi-conductive material (Bonded type)

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screen
Semi-conductive material (Strippable type)

Screen
Copper wires with Open Helix Copper Tape Screen

Outer Sheath
MDPE (Medium Density Polyethylene)

DIMENSIONS

NO. OF CORE	NOMINAL CROSS SECTIONAL AREA		NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT
	Conductor	Screen	mm	mm	mm	kg/km
1	50	16	3.4	1.7	21.80	840
1	70	16.08	3.4	1.7	23.60	1055
1	95	16.08	3.4	1.8	25.10	1316
1	120	16.08	3.4	1.8	26.50	1561
1	150	25.37	3.4	1.9	28.50	1934
1	185	25.37	3.4	1.9	30.00	2270
1	240	25.37	3.4	2.0	32.60	2847
1	300	25.37	3.4	2.1	35.00	3408
1	400	35.47	3.4	2.2	38.00	4320
1	500	34.47	3.4	2.3	41.60	5307
1	630	35.47	3.4	2.4	46.50	6716
1	800	35.47	3.4	2.5	50.8	8490

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	MAXIMUM CONDUCTOR AC RESISTANCE AT TEMP. AND 50HZ Ω/km	CAPACITANCE uF/km	CHARGING CURRENT A/Km	DIELECTRIC LOSSES W/km	REACTANCE AT 50 HZ ohm/km	CONDUCTOR S.C.C 1SEC kA	COPPER SCREEN S.C.C FOR 1SEC kA	CURRENT RATING A	
50	0.387	0.494	0.263	0.496	11.90	0.122	7.15	1.75	227	237
70	0.268	0.342	0.303	0.571	13.71	0.115	10.01	1.76	271	300
95	0.193	0.247	0.332	0.625	15.00	0.111	13.585	1.76	322	362.0
120	0.153	0.196	0.362	0.683	16.40	0.107	17.16	1.76	365	419.0
150	0.124	0.159	0.397	0.75	17.99	0.103	21.45	2.77	409.0	474
185	0.0991	0.128	0.43	0.812	19.47	0.100	26.455	2.77	462.0	545
240	0.0754	0.098	0.483	0.911	21.85	0.097	34.32	2.77	533.0	645
300	0.0601	0.078	0.535	1.009	24.22	0.093	42.9	2.77	599.0	742
400	0.047	0.062	0.592	1.116	26.79	0.091	57.2	3.87	674	855
500	0.0366	0.049	0.666	1.256	30.14	0.088	71.5	3.87	756	983
630	0.0283	0.039	0.768	1.449	34.77	0.087	90.09	3.87	838	1118
800	0.0221	0.032	0.858	1.617	38.81	0.084	114.4	3.87	945	1256

Laying conditions at trefoil formation are as below:

- Soil thermal resistivity 120 °C.Cm/Watt
- Burial depth 0.5 m
- Ground temperature 15 °C
- Air temperature 25 °C
- Frequency 50 Hz