

N2XSy XLPE PVC - 18/30 (36)kV Cable



APPLICATION

Medium voltage cables for distribution networks; also for connection to generation units and plant and process connection. To be laid directly in ground, outdoors, indoors and in cable ducts.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

18/30 (36)kV

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

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

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

Inner Semi-Conductive Layer

Semi-conductive material (Bonded Type)

Insulation

XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer

Semi-conductive material (Strippable Type)

Screen

Copper wires with Open Helix Copper Tape Screen

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

- Black

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA	NOMINAL SCREEN CROSS SECTIONAL AREA	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT
	mm ²	mm ²	mm	mm	mm	kg/km
1	50	16	8.0	2	31.4	1304
1	70	16	8.0	2	33.2	1550
1	95	16	8.0	2.1	34.5	1827
1	120	16	8.0	2.1	35.9	2095
1	150	25	8.0	2.2	37.9	2506
1	185	25	8.0	2.2	39.4	2870
1	240	25	8.0	2.3	42.0	3501
1	300	25	8.0	2.4	44.6	4128
1	400	35	8.0	2.5	47.6	5105
1	500	35	8.0	2.6	51.2	6167
1	630	35	8.0	2.7	56.1	7677
1	800	35	8.0	2.8	60.4	9543

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA	MAXIMUM CONDUCTOR OR DC RESISTANCE AT 20°C	MAXIMUM CONDUCTOR AC RESISTANCE AT TEMP. AND 50HZ	CAPACITANCE	CHARGING CURRENT	DIELECTRIC LOSSES	REACTANCE AT 50 HZ	CONDUCTOR S.C.C FOR 1 SEC	COPPER SCREEN S.C.C FOR 1 SEC	CURRENT RATING A	
									Laid in ground	Laid in free air
mm ²	Ω/km	Ω/km	uF/km	A/km	W/km	ohms/km	KA	KA		
50	0.387	0.494	0.141	0.799	57.52	0.145	7.15	1.75	234	249
70	0.268	0.342	0.159	0.898	64.62	0.136	10.01	1.75	284	309
95	0.193	0.247	0.171	0.968	69.68	0.131	13.585	1.75	340	382
120	0.153	0.196	0.184	1.043	75.09	0.126	17.16	1.75	386	441
150	0.124	0.159	0.199	1.128	81.23	0.121	21.45	2.73	431	494
185	0.0991	0.128	0.213	1.208	86.95	0.118	26.455	2.73	487	571
240	0.0754	0.098	0.236	1.334	96.06	0.113	34.32	2.73	557	673
300	0.0601	0.078	0.258	1.46	105.11	0.109	42.9	2.73	625	777
400	0.047	0.062	0.282	1.595	114.87	0.105	57.2	3.82	699	887
500	0.0366	0.049	0.313	1.772	127.59	0.101	71.5	3.82	785	1021
630	0.0283	0.039	0.356	2.015	145.11	0.098	90.09	3.82	868	1153
800	0.0221	0.032	0.394	2.227	160.34	0.095	114.40	3.82	947	1299

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