

N2XS2Y 18/30 (36)kV Cable



APPLICATION

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

CHARACTERISTICS

Voltage Rating U_0/U (Um)

18/30 (36)kV

Test Voltage

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

Screen

Semi-conductive swellable tape

Screen

Copper wires with Open Helix
 Copper Tape Screen

Outer Sheath

MDPE (Medium Density Polyethylene)

Sheath Colour

- Black

DIMENSIONS

NO. OF CORE	NOMINAL CROSS SECTIONAL AREA	NOMINAL SCREEN CROSS SECTIONAL AREA	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	NOMINAL OVERALL DIAMTER	NOMINAL WEIGHT
	mm ²	mm ²	mm	mm	mm	kg/km
1	50	16	8	2	31.4	1203
1	70	16	8	2	33.2	1443
1	95	16	8	2.1	34.5	1715
1	120	16	8	2.1	35.9	1979
1	150	25	8	2.2	37.9	2377
1	185	25	8	2.2	39.4	2735
1	240	25	8	2.3	42.0	3349
1	300	25	8	2.4	44.6	3958
1	400	35	8	2.5	47.6	4914
1	500	35	8	2.6	51.2	5952
1	630	35	8	2.7	56.1	7429
1	800	35	8	2.8	60.4	9265

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	
									Laid in ground	Lain in free air
50	0.387	0.494	0.141	0.799	57.52	0.145	7.15	1.75	227	242
70	0.268	0.342	0.159	0.898	64.6	0.136	10.01	1.75	275	300
95	0.193	0.247	0.171	0.968	69.68	0.131	13.585	1.75	330	370
120	0.153	0.196	0.184	1.043	75.1	0.126	17.16	1.75	374	427
150	0.124	0.159	0.199	1.128	81.23	0.121	21.45	2.73	418	479
185	0.0991	0.128	0.213	1.208	87.0	0.118	26.455	2.73	472	554
240	0.0754	0.098	0.236	1.334	96.06	0.113	34.32	2.73	541	652
300	0.0601	0.078	0.258	1.46	105.1	0.109	42.9	2.73	606	753
400	0.047	0.062	0.282	1.595	114.87	0.105	57.2	3.82	678	860
500	0.0366	0.049	0.313	1.772	127.6	0.101	71.5	3.82	761	991
630	0.0283	0.039	0.356	2.015	145.11	0.098	90.09	3.82	842	1119
800	0.0221	0.032	0.394	2.227	160.3	0.095	114.4	3.82	916	1260

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

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.