

N2XS2Y 12/20 (24)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 (Um)
12/20 (24)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 CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL SCREEN CROSS SECTIONAL AREA mm ²	NOMINAL INSULATION THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1	50	16	5.5	1.8	26	982
1	70	16	5.5	1.9	28	1217
1	95	16	5.5	1.9	29.3	1478
1	120	16	5.5	2	30.9	1741
1	150	25	5.5	2	32.7	2116
1	185	25	5.5	2.1	34.2	2462
1	240	25	5.5	2.2	36.8	3056
1	300	25	5.5	2.2	39.2	3630
1	400	35	5.5	2.3	42.2	4562
1	500	35	5.5	2.4	45.8	5573
1	630	35	5.5	2.5	50.7	7011
1	800	35	5.5	2.7	55.2	8829

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20 °C Ω/Km	MAXIMUM CONDUCTOR AC RESISTANCE AT OPERATING TEMP. AND 50HZ Ω/Km	CAPACITANCE μF/Km	CHARGING CURRENT A/Km	DIELECTRIC LOSSES W/Km	REACTANCE AT 50 HZ ohm/km	CONDUCTOR S.C.C FOR 1 SEC KA	COPPER SCREEN S.C.C FOR 1 SEC KA	CURRENT RATING A	
									Laid in ground	Laid in free air
50	0.387	0.494	0.184	0.693	33.24	0.133	7.15	1.75	227	238
70	0.268	0.342	0.209	0.787	37.78	0.126	10.01	1.75	275	300
95	0.193	0.247	0.227	0.855	41.03	0.121	13.585	1.75	327	366
120	0.153	0.196	0.246	0.928	44.52	0.117	17.16	1.75	373	423
150	0.124	0.159	0.268	1.01	48.48	0.112	21.45	2.73	415	476
185	0.0991	0.128	0.288	1.087	52.18	0.109	26.455	2.73	468	549
240	0.0754	0.098	0.321	1.21	58.08	0.104	34.32	2.73	537	649
300	0.0601	0.078	0.353	1.333	63.97	0.101	42.9	2.73	603	749
400	0.047	0.062	0.388	1.465	70.33	0.097	57.2	3.82	676	856
500	0.0366	0.049	0.434	1.638	78.63	0.094	71.5	3.82	760	988
630	0.0283	0.039	0.498	1.876	90.08	0.092	90.09	3.82	840	1119
800	0.0221	0.032	0.553	2.084	100.05	0.089	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