

N2XS2Y XLPE MDPE 8.7/15 (17.5) kV Cable



APPLICATION

Medium Voltage MDPE sheathed power distribution cables particularly noted for applications in wind energy installations.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

8.7/15 (17.5)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, EN 60228

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

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 DIAMETER	NOMINAL WEIGHT
	mm ²	mm ²	mm	mm	mm	kg/km
1	50	16	4.5	1.7	23.80	904
1	70	16	4.5	1.8	25.80	1132
1	95	16	4.5	1.8	27.10	1389
1	120	16	4.5	1.9	28.70	1647
1	150	25	4.5	2	30.70	2027
1	185	25	4.5	2	32.20	2368
1	240	25	4.5	2.1	34.60	2943
1	300	25	4.5	2.2	37.20	3522
1	400	35	4.5	2.3	40.20	4445
1	500	35	4.5	2.4	43.80	5444
1	630	35	4.5	2.5	48.70	6869
1	800	35	4.5	2.6	53	8655

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 μF/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	0.214	0.586	20.37	0.128	7.15	1.75	227	238
70	0.268	0.342	0.245	0.67	23.29	0.121	10.01	1.75	273	300
95	0.193	0.247	0.267	0.73	25.39	0.116	13.585	1.75	325	362
120	0.153	0.196	0.29	0.794	27.64	0.112	17.16	1.75	369	419
150	0.124	0.159	0.317	0.868	30.20	0.108	21.45	2.73	413	474
185	0.0991	0.128	0.343	0.937	32.59	0.105	26.455	2.73	465	545
240	0.0754	0.098	0.383	1.047	36.42	0.101	34.32	2.73	536	645
300	0.0601	0.078	0.423	1.156	40.23	0.097	42.9	2.73	601	744
400	0.047	0.062	0.466	1.275	44.35	0.094	57.2	3.82	673	856
500	0.0366	0.049	0.523	1.429	49.74	0.091	71.5	3.82	758	985
630	0.0283	0.039	0.601	1.643	57.17	0.090	90.09	3.82	840	1118
800	0.0221	0.032	0.669	1.829	63.65	0.087	114.4	3.82	945	1256

Laying conditions at trefoil formation are as below:

- Soil thermal resistivity 120 °C.Cm/Watt
- 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.