

N2XS(F)2Y XLPE MDPE 8.7/15 (17.5)kV Cable



APPLICATION

Medium Voltage MDPE power distribution cable with particular application in wind energy installations. Longitudinally sealed cables for aid protection against water ingress.

CHARACTERISTICS

Voltage Rating Uo/U (Um) 8.7/15 (17.5) 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, EN 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 compacted copper

Conductor Screen Semi-conductive material (Bonded type)

Insulation XLPE (Cross-linked Polyethylene)

Insulation Screen Semi-conductive material (Strippable type)

Longitudinal Waterblocking Semi-conductive water swelling tape

Metallic Screen Copper wires with Open Helix Copper Tape Screen

Longitudinal Waterblocking Non-conductive water swelling tape

Outer Sheath

MDPE (Medium Density Polyethylene)

DIMENSIONS

| NO. OF CORE | NOMINAL CROSS SECTIONAL AREA | NOMINAL SCREEN CROSS SECTIONAL AREA | NOMINAL INSULATION THICKNESS | NOMINAL NOMINAL INSULATION SHEATH THICKNESS THICKNESS | | NOMINAL WEIGHT |
|-------------------|---------------------------------|--|------------------------------------|---|-------|-------------------|
| | mm2 | mm2 | mm | mm | mm | kg/km |
| 1 | 50 | 16 | 4.5 | 1.7 | 25.80 | 939 |
| 1 | 70 | 16 | 4.5 | 1.8 | 27.80 | 1171 |
| 1 | 95 | 16 | 4.5 | 1.8 | 29.10 | 1429 |
| 1 | 120 | 16 | 4.5 | 1.9 | 30.70 | 1689 |
| 1 | 150 | 25 | 4.5 | 2 | 32.70 | 2072 |
| 1 | 185 | 25 | 4.5 | 2 | 34.20 | 2415 |
| 1 | 240 | 25 | 4.5 | 2.1 | 36.60 | 2993 |
| 1 | 300 | 25 | 4.5 | 2.2 | 39.20 | 3575 |
| 1 | 400 | 35 | 4.5 | 2.3 | 42.20 | 4502 |
| 1 | 500 | 35 | 4.5 | 2.4 | 45.80 | 5505 |
| 1 | 630 | 35 | 4.5 | 2.5 | 50.70 | 6936 |
| 1 | 800 | 35 | 4.5 | 2.6 | 55 | 8728 |

ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA mm ² A | MAXIMUM CONDUCTOR DC | 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 | | |
|---|-------------------------------|--|----------------------|-----------------------------|------------------------------|---------------------------------|----------------------------------|--|---------------------|--------------|------------------|
| | RESISTANCE AT 20°C Ω/km | | | | | | | | Laid in ground | Laid in duct | Lain in free air |
| 50 | 0.387 | 0.494 | 0.214 | 0.586 | 20.37 | 0.133 | 7.15 | 1.75 | 230 | 172 | 229 |
| 70 | 0.268 | 0.342 | 0.245 | 0.67 | 23.29 | 0.125 | 10.01 | 1.75 | 277 | 213 | 289 |
| 95 | 0.193 | 0.247 | 0.267 | 0.73 | 25.39 | 0.12 | 13.585 | 1.75 | 330 | 255 | 348 |
| 120 | 0.153 | 0.196 | 0.29 | 0.794 | 27.64 | 0.116 | 17.16 | 1.75 | 374 | 295 | 403 |
| 150 | 0.124 | 0.159 | 0.317 | 0.868 | 30.20 | 0.112 | 21.45 | 2.73 | 418 | 333 | 456 |
| 185 | 0.0991 | 0.128 | 0.343 | 0.937 | 32.59 | 0.109 | 26.455 | 2.73 | 472 | 387 | 525 |
| 240 | 0.0754 | 0.098 | 0.383 | 1.047 | 36.42 | 0.104 | 34.32 | 2.73 | 532 | 445 | 621 |
| 300 | 0.0601 | 0.078 | 0.423 | 1.156 | 40.23 | 0.101 | 42.9 | 2.73 | 596 | 509 | 716 |
| 400 | 0.047 | 0.062 | 0.466 | 1.275 | 44.35 | 0.097 | 57.2 | 3.82 | 668 | 580 | 824 |
| 500 | 0.0366 | 0.049 | 0.523 | 1.429 | 49.74 | 0.094 | 71.5 | 3.82 | 752 | 661 | 948 |
| 630 | 0.0283 | 0.039 | 0.601 | 1.643 | 57.17 | 0.092 | 90.09 | 3.82 | 834 | 750 | 1076 |
| 800 | 0.0221 | 0.032 | 0.669 | 1.829 | 63.65 | 0.089 | 114.4 | 3.82 | 910 | 840 | 1209 |

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.