

# N2XS(FL)2Y 18/30 (36)kV Cable



## APPLICATION

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

## CHARACTERISTICS

### Voltage Rating $U_0/U$ (Um)

18/30 (36)kV

### Test Voltage:

6/10(12)kV

### Temperature Rating

Maximum Conductor Operating Temperature: 90°C

Maximum Screen Operating Temperature: 80°C

Maximum Conductor Temperature During S.C.: 250°C

### Minimum Bending Radius

20 x Outer diameter

## STANDARDS

IIEC 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 Circular Compacted Copper

### Inner Semi Conductor

Extruded Inner Semi Conductor (Bonded Type)

### Insulation

XLPE (Cross-Linked Polyethylene) 90°C

### Outer Semi Conductor

Extruded Outer Semi Conductor (Strippable Type)

### Semi Conductive Water Blocking Tape Screen

Copper Wires and Open Helix Copper Tape

### Non-Conductive Water Blocking Tape

Aluminium Tape

### 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 <sup>2</sup>	mm <sup>2</sup>	mm	mm	mm	kg/km
1	50	16	8	2	34.2	1335
1	70	16	8	2	36.0	1581
1	95	16	8	2.1	37.3	1858
1	120	16	8	2.1	38.7	2126
1	150	25	8	2.2	40.7	2530
1	185	25	8	2.2	42.2	2895
1	240	25	8	2.3	44.8	3519
1	300	25	8	2.4	47.4	4134
1	400	35	8	2.5	50.4	5104
1	500	35	8	2.6	54.0	6157
1	630	35	8	2.7	58.9	7652
1	800	35	8	2.8	63.2	9502

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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	0.263	0.496	11.90	0.130	7.15	1.75	210	220
70	0.268	0.342	0.303	0.571	13.71	0.122	10.01	1.75	251	278
95	0.193	0.247	0.332	0.625	15.00	0.118	13.585	1.75	298	336
120	0.153	0.196	0.362	0.683	16.40	0.113	17.16	1.75	339	389
150	0.124	0.159	0.397	0.75	17.99	0.109	21.45	2.73	379	440
185	0.0991	0.128	0.43	0.812	19.47	0.106	26.455	2.73	428	506
240	0.0754	0.098	0.483	0.911	21.85	0.102	34.32	2.73	495	599
300	0.0601	0.078	0.535	1.009	24.22	0.098	42.9	2.73	556	688
400	0.047	0.062	0.592	1.116	26.79	0.095	57.2	3.82	626	793
500	0.0366	0.049	0.666	1.256	30.14	0.092	71.5	3.82	701	912
630	0.0283	0.039	0.768	1.449	34.77	0.090	90.09	3.82	778	1037
800	0.0221	0.032	0.858	1.617	38.81	0.088	114.4	3.82	850	1166

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.