

N2XS(F)2Y 18/30 (36)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 Uo/U (Um) 18/30 (36)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 (Strippabe type)

Longitudinal Waterblocking

Semi-conductive swellable tape

Copper wires with Open Helix Copper Tape Screen

Longitudinal Waterblocking

Swellable Tapes

Outer Sheath

MDPE (Medium Density Polyethylene)





DIMENSIONS

NO. OF CORE	NOMINAL CROSS SECTIONAL AREA	NOMINAL SCREEN CROSS SECTIONAL AREA	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	NOMINAL OVERALL DIAMTER	NOMINAL WEIGHT	
	mm2	mm2	mm	mm	mm	kg/km	
1	50	16	8	2	33.4	1248	
1	70	16	8	2	35.2	1492	
1	95	16	8	2.1	36.5	1765	
1	120	16	8	2.1	37.9	2030	
1	150	25	8	2.2	39.9	2430	
1	185	25	8	2.2	41.4	2792	
1	240	25	8	2.3	44.0	3409	
1	300	25	8	2.4	46.6	4020	
1	400	35	8	2.5	49.6	4983	
1	500	35	8	2.6	53.2	6025	
1	630	35	8	2.7	58.1	7510	
1	800	35	8	2.8	62.4	9350	

ELECTRICAL CHARACTERISTICS

NOMINAL CONDUCTO CROSS DC SECTIONAL RESISTANCE	MAXIMUM CONDUCTOR DC	OR CONDUCTOR AC RESISTANCE AT TEMP AND	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	0.141	0.799	57.52	0.149	7.15	1.75	230	172	233
70	0.268	0.342	0.159	0.898	64.62	0.14	10.01	1.75	279	216	289
95	0.193	0.247	0.171	0.968	69.68	0.135	13.585	1.75	334	262	356
120	0.153	0.196	0.184	1.043	75.09	0.13	17.16	1.75	380	302	411
150	0.124	0.159	0.199	1.128	81.23	0.125	21.45	2.73	424	240	464
185	0.0991	0.128	0.213	1.208	86.95	0.121	26.455	2.73	478	395	533
240	0.0754	0.098	0.236	1.334	96.06	0.116	34.32	2.73	537	451	628
300	0.0601	0.078	0.258	1.46	105.11	0.111	42.9	2.73	602	515	725
400	0.047	0.062	0.282	1.595	114.87	0.107	57.2	3.82	673	585	828
500	0.0366	0.049	0.313	1.772	127.59	0.103	71.5	3.82	756	663	953
630	0.0283	0.039	0.356	2.015	145.11	0.101	90.09	3.82	836	754	1077
800	0.0221	0.032	0.394	2.227	160.34	0.097	114.4	3.82	911	845	1213

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