

N2XS(F)2Y 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)

Longitudinal Waterblocking
Semi-conductive swellable tape

Screen
Copper wires with Open Helix Copper Tape
Screen

Longitudinal Waterblocking
Swellable Tapes

Outer Sheath
MDPE (Medium Density Polyethylene)

DIMENSIONS

NO. OF CORES	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	5.5	1.8	28.0	1020
1	70	16	5.5	1.9	30.0	1258
1	95	16	5.5	1.9	31.3	1521
1	120	16	5.5	2	32.9	1786
1	150	25	5.5	2	34.7	2162
1	185	25	5.5	2.1	36.2	2512
1	240	25	5.5	2.2	38.8	3109
1	300	25	5.5	2.2	41.2	3686
1	400	35	5.5	2.3	44.2	4624
1	500	35	5.5	2.4	47.8	5637
1	630	35	5.5	2.5	52.7	7083
1	800	35	5.5	2.7	57.2	8905

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 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		
									Laid in ground	Laid in duct	Lain in free air
50	0.387	0.494	0.184	0.693	33.24	0.138	7.15	1.75	230	172	229
70	0.268	0.342	0.209	0.787	37.78	0.130	10.01	1.75	279	213	289
95	0.193	0.247	0.227	0.855	41.03	0.125	13.585	1.75	332	258	352
120	0.153	0.196	0.246	0.928	44.52	0.121	17.16	1.75	378	299	407
150	0.124	0.159	0.268	1.01	48.48	0.116	21.45	2.73	421	336	458
185	0.0991	0.128	0.288	1.087	52.18	0.112	26.455	2.73	475	391	529
240	0.0754	0.098	0.321	1.21	58.08	0.108	34.32	2.73	533	447	625
300	0.0601	0.078	0.353	1.333	63.97	0.104	42.9	2.73	598	512	721
400	0.047	0.062	0.388	1.465	70.33	0.100	57.2	3.82	671	581	824
500	0.0366	0.049	0.434	1.638	78.63	0.097	71.5	3.82	754	661	951
630	0.0283	0.039	0.498	1.876	90.08	0.095	90.09	3.82	834	751	1077
800	0.0221	0.032	0.553	2.084	100.05	0.092	114.4	3.82	910	841	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