NA2XS(F)2Y 18/30 (36)kV Cable

APPLICATION

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

CHARACTERISTICS

Voltage Rating Uo/U (Um)
18/30 (36)kV

Test Voltage
63kV AC 50Hz (5 mins)

Temperature Rating
-20°C to +60°C
Permissible Conductor Operating Temperature: +90°C
Permissible Short Circuit Temperature up to 5 sec: 250°C

Minimum Bending Radius
15 x overall diameter

STANDARDS

IEC 60502-2, IEC 60228,
UV Resistant: ISO 4892-3
Abrasion and Tear Resistant: EN 60229-4.1
Impact rated to: AG2 EN 60364-5.51

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)

GUOWANG
CABLE GROUP

DIMENSIONS

NO. OF CORE	NOMINAL CROSS SECTIONAL AREA		NOMINAL CONDUCTOR DIAMETER	NUMBER WIRES CONDUCTOR	NOM. THICKNESS SEMI-CON. LAYER		NOMINAL INSULATION THICKNESS	MINIMUM INSULATION THICKNESS	NOMINAL DIAMETER OVER INSULATION
	Conductor	Screen	mm	mm	INNER	OUTER	mm	mm	mm
1	50	16	8.20	7*2.90	0.50	0.40	8.00	7.10	25.2
1	70	16	9.70	19*2.18	0.50	0.40	8.00	7.10	26.7
1	95	16	11.4	19*2.55	0.50	0.40	8.00	7.10	28.4
1	120	16	12.65	19*2.90	0.50	0.40	8.00	7.10	29.7
1	150	25	14.4	19*3.16	0.50	0.40	8.00	7.10	31.4
1	185	25	15.75	37*2.55	0.50	0.40	8.00	7.10	33.2
1	240	25	18.2	37*2.90	0.50	0.40	8.00	7.10	35.7
1	300	25	20.5	61*2.55	0.50	0.40	8.00	7.10	38.0
1	400	35	23.0	61*2.90	0.50	0.40	8.00	7.10	40.5
1	500	35	26.0	61*3.20	0.50	0.40	8.00	7.10	43.5
1	630	35	30.2	61*3.65	0.50	0.40	8.00	7.10	47.7

NOMINAL CROSS SECTIONAL AREA mm2	NUMBER WIRES SCREEN mm	DIAMETER TAPE SCREEN mm	NOMINAL SHEATH THICKNESS mm	MINIMUM SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MAXIMUM SIDEWALL PRESSURE N/CM2	MAXIMUM PULLING TENSION N
50	44*0.66	1*0.1*10	2.00	1.40	32	1000	249	1500
70	44*0.66	1*0.1*10	2.00	1.40	34	1100	320	2100
95	44*0.66	1*0.1*10	2.10	1.48	36	1300	401	2850
120	44*0.66	1*0.1*10	2.10	1.48	37	1400	483	3600
150	71*0.66	1*0.1*10	2.20	1.56	39	1600	562	4500
185	71*0.66	1*0.1*10	2.20	1.56	41	1800	652	5550
240	71*0.66	1*0.1*10	2.30	1.64	43	2000	784	7200
300	71*0.66	1*0.1*10	2.40	1.72	46	2250	902	9000
400	60*0.85	1*0.1*15	2.50	1.80	49	2750	1111	12000
500	60*0.85	1*0.1*15	2.60	1.88	52	3250	1282	15000
630	60*0.85	1*0.1*15	2.70	1.96	56	3750	1462	18900

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA	CONDUCTOR DC RESISTANCE AT 20°C	CONDUCTOR DC RESISTANCE AT 75°C	CONDUCTOR AC RESISTANCE BY MAX TEMP	CURRENT CARRYING CAPACITY (A)		REACTANCE	CHARGING ADMITTANCE	CAPACITANCE	S.C.C CONDUCTOR 1SEC	S.C.C SCREEN 1SEC	CONDUCTOR LOSSES IN THE GROUND
mm²	ohms/km	ohms/km	ohms/km	In Ground 20℃	In Air 30°C	ohms/km	A/km	uF/km	kA	kA	kW/km
50	0.641	1.32	0.825	196	217	0.20	0.44	0.12	4.70	3.2	31.4
70	0.443	0.917	0.570	238	270	0.20	0.41	0.13	6.58	3.2	32
95	0.32	0.662	0.412	284	328	0.19	0.39	0.14	8.93	3.2	32.8
120	0.258	0.524	0.328	322	378	0.18	0.38	0.15	11.28	3.2	33.6
150	0.203	0.426	0.268	355	425	0.18	0.36	0.17	14.10	5.0	33.4
185	0.164	0.339	0.213	400	485	0.18	0.36	0.18	17.39	5.0	33.4
240	0.125	0.258	0.1600	461	572	0.17	0.34	0.20	22.56	5.0	34.0
300	0.100	0.207	0.1320	516	649	0.17	0.33	0.22	28.20	5.0	34.5
400	0.0778	0.161	0.1030	572	737	0.16	0.32	0.24	37.60	7.1	33.0
500	0.0605	0.1250	0.0810	638	835	0.16	0.31	0.26	47.00	7.1	32.1
630	0.0469	0.0972	0.0640	860	1080	0.16	0.29	0.29	59.22	7.1	47.3

Derating factor (ground): 1 (Soil thermal resistivity: 1km/W, Depth 0.8m, Flat formation - touching)
Derating factor (air): 1 (Flat formation - touching)