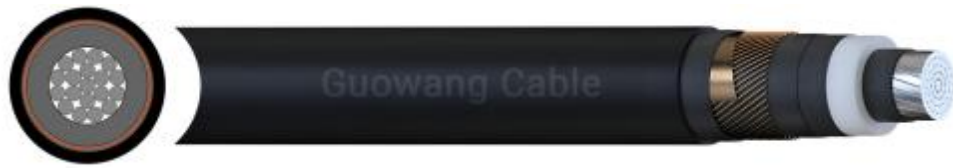


NA2XS2Y XLPE MDPE 8.7/15 (17.5) kV Cable



APPLICATION

Medium Voltage Aluminium HDPE power distribution cable with particular application in wind energy installations.

CHARACTERISTICS

Voltage Rating U_0/U

8.7/15 (17.5) kV

STANDARDS

IEC 60502-2

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 aluminium

Conductor Screen

Semi-conductive extruded XLPE
(Cross-linked Polyethylene)

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductive extruded XLPE
(Cross-linked Polyethylene)

Wrapping

Non swelling semi conductive tape

Metallic Screen

Copper Wires and Tape

Wrapping

Polyester tape

Sheath

MDPE (Medium Density Polyethylene)

Sheath Colour

● Black

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA	NOMINAL DIAMETER OF CONDUCTOR	INSULATION mm		METALLIC SCREEN		NOMINAL OUTER DIAMETER OF CABLE	NOMINAL WEIGHT	MAXIMUM PULLING FORCE	MINIMUM BENDING RADIUS
	mm ²	mm	NOMINAL THICKNESS	Nominal Diameter Over	Nominal Cross Section mm ²	Nominal diameter Over mm	mm	KG/KM	KN	m
1	50	8.25	4.5	18.5	16	22.4	27.1	780	1.5	0.41
1	70	9.5	4.5	19.7	25	23.6	28.4	950	2.1	0.43
1	95	11.3	4.5	21.5	35	25.4	30.2	1160	2.85	0.45
1	120	12.5	4.5	22.7	50	26.6	31.4	1400	3.6	0.47
1	150	14.2	4.5	24.4	50	18.3	33.1	1520	4.5	0.50
1	185	15.8	4.5	26.0	50	29.9	34.7	1660	5.55	0.52
1	240	17.9	4.5	28.1	50	32.0	36.8	1870	7.2	0.55
1	300	20.0	4.5	30.2	50	34.1	38.9	2080	9	0.58
1	400	22.9	4.5	33.1	50	37.0	41.8	2390	12	0.63
1	500	25.7	4.5	36.4	50	40.5	45.3	2810	15	0.68
1	630	29.3	4.5	40.3	50	44.4	49.3	3310	18.9	0.74
1	800	33.0	4.5	44.4	50	48.5	53.6	3920	24	0.80
1	1000	38.0	4.5	49.4	50	53.5	59.0	4680	30	0.89

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA CONDUCTOR/METALLIC SCREEN mm ²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	MAXIMUM CONDUCTOR AC RESISTANCE AT 90°C Ω/km	MAXIMUM METALLIC SCREEN DC RESISTANCE AT 20°C Ω/km	MAXIMUM METALLIC SCREEN AC RESISTANCE AT 80°C Ω/km	ELECTRICAL FIELD STRESS KV/mm		RESISTANCE Ω/km	CAPACITANCE μF/km	CAPACITANCE REACTANCE Ω/km	CHARGING CURRENT A/km	REACTANCE Ω/km
					Conductor screen	Insulation					
50/16	0.641	0.822	1.12	1.38	2.72	1.37	2.20	0.19	17.2	0.51	0.075
70/25	0.443	0.568	0.72	0.89	2.63	1.40	1.45	0.20	15.7	0.56	0.070
95/35	0.32	0.411	0.51	0.63	2.53	1.45	1.04	0.23	13.9	0.63	0.064
120/50	0.253	0.325	0.36	0.44	2.48	1.47	0.77	0.25	12.9	0.67	0.061
150/50	0.206	0.265	0.36	0.44	2.42	1.51	0.71	0.27	11.8	0.74	0.057
185/50	0.164	0.211	0.36	0.44	2.37	1.53	0.65	0.29	10.9	0.80	0.054
240/50	0.125	0.161	0.36	0.44	2.32	1.56	0.60	0.32	9.9	0.88	0.050
300/50	0.1000	0.1300	0.36	0.44	2.28	1.59	0.57	0.35	9.1	0.96	0.047
400/50	0.0778	0.1020	0.36	0.44	2.24	1.61	0.54	0.39	8.1	1.07	0.044
500/50	0.0605	0.0801	0.36	0.44	2.18	1.62	0.52	0.43	7.3	1.18	0.043
630/50	0.0469	0.0634	0.36	0.44	2.14	1.65	0.51	0.49	6.5	1.33	0.040
800/50	0.0367	0.0513	0.36	0.44	2.11	1.67	0.49	0.54	5.9	1.49	0.039
1000/50	0.0291	0.0427	0.36	0.44	2.08	1.69	0.49	0.61	5.2	1.67	0.036

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA CONDUCTOR /METALLIC SCREEN mm ²	INDUCTANCE L mH/km			INDUCTANCE REACTANCE XL Ω/km			IMPEDANCE Ω/km		
	2	3	4	2	3	4	2	3	4
50/16	0.43	0.73	0.61	0.134	0.229	0.192	0.833	0.844	0.531
70/25	0.41	0.70	0.59	0.128	0.221	0.186	0.582	0.598	0.39
95/35	0.39	0.67	0.57	0.121	0.211	0.179	0.428	0.448	0.306
120/50	0.37	0.65	0.56	0.117	0.204	0.175	0.345	0.369	0.263
150/50	0.36	0.63	0.54	0.112	0.198	0.171	0.288	0.315	0.234
185/50	0.35	0.61	0.53	0.109	0.193	0.167	0.237	0.269	0.211
240/50	0.33	0.59	0.52	0.105	0.185	0.163	0.192	0.229	0.190
300/50	0.32	0.57	0.51	0.101	0.180	0.159	0.164	0.205	0.178
400/50	0.31	0.55	0.49	0.097	0.173	0.155	0.141	0.185	0.168
500/50	0.30	0.54	0.49	0.095	0.167	0.153	0.124	0.173	0.162
630/50	0.29	0.52	0.48	0.092	0.161	0.150	0.112	0.163	0.156
800/50	0.29	0.50	0.47	0.090	0.155	0.148	0.103	0.156	0.152
1000/50	0.28	0.48	0.46	0.087	0.151	0.146	0.097	0.151	0.149

CURRENT RATING FOR SINGLE-CORE CABLES -AMPERES

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMM SHORT CIRCUIT CAPACITY CONDUCTOR kA/sec	MAXIMM SHORT CIRCUIT CAPACITY METALLIC SCREEN kA/sec	FLAT FORMATION		TREFOIL FORMATION		FLAT FORMATION		TREFOIL FORMATION	
			CONFIGURATIONS							
			SPP; CB	BOTH-ENDS	SPP; CB	BOTH-ENDS	SPP; CB	BOTH-ENDS	SPP; CB	BOTH-ENDS
			CABLES IN EARTH				CABLES IN AIR			
50/16	4.7	3.7	225	224	212	212	231	230	196	196
70/25	6.6	5.3	276	272	259	258	286	283	242	242
95/35	90	7.1	333	324	312	310	350	343	295	294
120/50	11.3	9.8	379	364	356	353	403	388	340	337
150/50	14.2	9.8	428	407	401	397	461	440	387	384
185/50	17.5	9.8	487	456	455	450	530	501	445	440
240/50	22.7	9.8	567	520	530	522	627	583	526	518
300/50	28.4	9.8	643	578	600	589	722	660	604	593
400/50	37.8	9.8	742	650	692	676	849	758	708	692
500/50	47.3	9.8	851	725	793	770	991	862	825	802
630/50	59.5	9.8	979	808	908	876	1161	981	963	931
800/50	75.6	9.8	1116	889	1028	983	1347	1101	1110	1065
1000/50	94.5	9.8	1262	971	1152	1093	1558	1225	1271	1210

SPB -Single Point Bonding; CB -cBonding Both-ends; BE -Both-ends bonding

Laying conditions at trefoil formation are as below:

-Soil thermal resistivity: 1/2.5 k m/W

-Burial depth: 0.7m

-Ground temperature: 20°C | Ambient temperature: 30°C