



N2XH IEC 60502-1 XLPE FRNC 0.6/1kV Cable



Eland Product Group: A5N

APPLICATION

These power cables are used for electricity supply in low voltage installation system. They are well adapted to underground use in industrial applications with an additional mechanical protection. These cables can be fixed on cable trays, within conduits or fixed to walls.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Temperature Rating
Fixed: -30°C to +90°C

Minimum Bending Radius
During Installation: 15 x overall diameter
Fixed: 10 x overall diameter

CONSTRUCTION

Conductor
Up to 16mm²: Class 1 solid copper conductor
Above 16mm²: Class 2 stranded copper conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Sheath
LSZH (Low Smoke Zero Halogen)

Core Identification

- 1 core: ● Black
- 2 core: ● Blue ● Brown
- 3 core: ● Black ● Brown ● Grey
- 3 core including earth: ● Green/Yellow ● Blue ● Brown
- 3 core + reduced E: ● Blue ● Brown ● Black ● Grey
- 4 core: ● Blue ● Brown ● Black ● Grey
- 4 core including earth: ● Green/Yellow ● Brown ● Black ● Grey
- 5 core: ● Blue ● Brown ● Black ● Grey ● Black
- 5 core including earth: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Sheath Colour
● Black

STANDARDS

VDE0276 Part 604, IEC 60502-1, IEC/EN 60332-3-24 Cat. C, IEC/EN 60228, EN 62230

In accordance with the installation standard IEC 60364 and as applicable to the equivalent National Codes for the rules for design, erection and verification of electrical installations, DIN VDE 0100, CEI 20-60, NEN 1010 and NF C15-100.

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/863/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5N2XH010015	1	1.5	RE	0.7	7	60
A5N2XH010025	1	2.5	RE	0.7	8	75
A5N2XH010040	1	4	RE	0.7	9	90
A5N2XH010060	1	6	RE	0.7	10	115
A5N2XH01010	1	10	RE	0.7	11	165
A5N2XH01016	1	16	RE	0.7	8.6	230
A5N2XH01025	1	25	RM	0.9	11.1	340
A5N2XH01035	1	35	RM	0.9	12	440
A5N2XH01050	1	50	RM	1	12.5	570
A5N2XH01070	1	70	RM	1.1	15	795
A5N2XH01095	1	95	RM	1.1	17	1055
A5N2XH01120	1	120	RM	1.3	17.65	1315
A5N2XH01150	1	150	RM	1.4	21	1600
A5N2XH01185	1	185	RM	1.6	23	1975
A5N2XH01240	1	240	RM	1.7	24.4	2525
A5N2XH01300	1	300	RM	1.8	26	3150
A5N2XH02015	2	1.5	RE	0.7	12	125
A5N2XH02025	2	2.5	RE	0.7	12.1	155
A5N2XH02040	2	4	RE	0.7	13	195
A5N2XH02060	2	6	RE	0.7	14	295
A5N2XH0210	2	10	RE	0.7	16	390
A5N2XH0216	2	16	RE	0.7	16.2	560
A5N2XH0225	2	25	RM	0.9	19	850
A5N2XH0235	2	35	RM	0.9	21.4	1010
A5N2XH0250	2	50	RM	1	24.8	1364
A5N2XH0270	2	70	RM	1.1	28.9	1924
A5N2XH0295	2	95	RM	1.1	32.9	2578
A5N2XH02120	2	120	RM	1.3	37.7	3307
A5N2XH02150	2	150	RM	1.4	40.9	4005
A5N2XH02185	2	185	RM	1.6	45.3	4964
A5N2XH02240	2	240	RM	1.7	52.1	6503
A5N2XH02300	2	300	RM	1.8	58.3	8219
A5N2XH03015	3	1.5	RE	0.7	12	145
A5N2XH03025	3	2.5	RE	0.7	13	180
A5N2XH03040	3	4	RE	0.7	14	235
A5N2XH03060	3	6	RE	0.7	15	325
A5N2XH0310	3	10	RE	0.7	15.4	485
A5N2XH0316	3	16	RE	0.7	17.1	705
A5N2XH0325	3	25	RM	0.9	20.5	1080
A5N2XH0335	3	35	SM	0.9	22.8	1425
A5N2XH0350	3	50	SM	1	26.5	1840
A5N2XH0370	3	70	SM	1.1	30.1	2540
A5N2XH0395	3	95	SM	1.1	34.1	3430
A5N2XH03120	3	120	SM	1.3	39.1	4440
A5N2XH03150	3	150	SM	1.4	42.2	5380
A5N2XH03185	3	185	SM	1.6	46.7	6920
A5N2XH03240	3	240	SM	1.7	53.5	8420
A5N2XH03300	3	300	SM	1.8	62.7	10927



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ELAND
CABLES

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5N2XH03400	3	400	SM	2	69.9	13709
A5N2XH0316/10	3 + E	16/10	RE	0.7	18.5	779
A5N2XH0325/16	3 + E	25/16	RM	0.9	22.1	1175
A5N2XH0335/16	3 + E	35/16	SM	0.9	24.3	1480
A5N2XH0350/25	3 + E	50/25	SM	1	28.2	2031
A5N2XH0370/35	3 + E	70/35	SM	1.1	32.1	2813
A5N2XH0395/50	3 + E	95/50	SM	1.1	36.4	3772
A5N2XH03120/70	3 + E	120/70	SM	1.3	41.4	4858
A5N2XH03150/70	3 + E	150/70	SM	1.4	44.2	5680
A5N2XH03185/95	3 + E	185/95	SM	1.6	48.4	7082
A5N2XH03240/120	3 + E	240/120	SM	1.7	56.5	9363
A5N2XH03300/150	3 + E	300/150	SM	1.9	63.3	11939
A5N2XH04015	4	1.5	RE	0.7	12	170
A5N2XH04025	4	2.5	RE	0.7	13	215
A5N2XH04040	4	4	RE	0.7	14.5	290
A5N2XH04060	4	6	RE	0.7	16	390
A5N2XH0410	4	10	RE	0.7	18.5	600
A5N2XH0416	4	16	RE	0.7	21	870
A5N2XH0425	4	25	RM	0.9	25.5	1365
A5N2XH0435	4	35	SM	0.9	28.5	1875
A5N2XH0450	4	50	SM	1	31.1	2550
A5N2XH0470	4	70	SM	1.1	36.2	3010
A5N2XH0495	4	95	SM	1.1	40.6	3960
A5N2XH04120	4	120	SM	1.3	45.4	5160
A5N2XH04150	4	150	SM	1.4	49.5	6150
A5N2XH04185	4	185	SM	1.6	54.4	7780
A5N2XH04240	4	240	SM	1.7	61.5	9550
A5N2XH05015	5	1.5	RE	0.7	13	195
A5N2XH05025	5	2.5	RE	0.7	14.5	255
A5N2XH05040	5	4	RE	0.7	16	345
A5N2XH05060	5	6	RE	0.7	17.5	475
A5N2XH0510	5	10	RE	0.7	20	735
A5N2XH0516	5	16	RE	0.7	23	1070
A5N2XH0525	5	25	RM	0.9	25.6	1605
A5N2XH0535	5	35	RM	0.9	28.7	2139
A5N2XH0550	5	50	RM	1	33	2870
A5N2XH0570	5	70	RM	1.1	38.2	4054
A5N2XH0595	5	95	RM	1.1	43	5415
A5N2XH05120	5	120	RM	1.3	50	7039
A5N2XH05150	5	150	RM	1.4	53.2	8447



ELECTRICAL CHARACTERISTICS

Current Carrying Capacity at 30°C

NOMINAL CROSS SECTIONAL AREA mm ²	NO. OF CORES Amps										
	1		2		3 and 4		7	10	12 and 14	19	24
	In Ground	In Air	In Ground	In Air	In Ground	In Air	In Air	In Air	In Air	In Air	In Air
1.5	31	24	37	26	31	23	18	16	14	13	12
2.5	41	33	48	36	41	31	23	22	20	18	16
4	59	45	63	49	53	42	-	-	-	-	-
6	101	58	80	63	66	54	-	-	-	-	-
10	128	80	104	86	87	75	-	-	-	-	-
16	144	107	136	115	113	100	-	-	-	-	-
25	174	138	173	149	144	127	-	-	-	-	-
35	206	169	-	-	174	158	-	-	-	-	-
50	254	207	-	-	206	192	-	-	-	-	-
70	301	268	-	-	254	246	-	-	-	-	-
95	343	328	-	-	301	298	-	-	-	-	-
120	387	382	-	-	343	346	-	-	-	-	-
150	434	441	-	-	387	395	-	-	-	-	-
185	501	506	-	-	434	450	-	-	-	-	-
240	565	599	-	-	501	538	-	-	-	-	-
300	565	693	-	-	-	-	-	-	-	-	-
400	749	811	-	-	-	-	-	-	-	-	-
500	843	940	-	-	-	-	-	-	-	-	-

Air ambient temperature: 30°C
 Ground ambient temperature: 20°C
 Conductor operating temperature: 90°C
 Depth of duct: 0.7m
 Soil thermal resistivity: 1km/W

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.