

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.

CONSTRUCTION

Conductor

Up to 35mm²: Class 1 solid copper conductor to 16mm²
Above 35mm²: Class 2 stranded copper conductor

Insulation

XLPE (Cross-Linked Polyethylene) Type 2X11 according to VDE 0276 Part 604

Sheath

LSZH (Low Smoke Zero Halogen) Type HM4 according to VDE 0276 Part 604

CABLE STANDARDS

VDE0274 Part 604, HD 604 S1, BS EN/IEC 60332-3-24 Cat. C, BS EN 60228, BS 5099 and BS 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 electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_o/U)

600/1000V

Temperature Rating

Fixed: -20°C to +90°C

Minimum Bending Radius

12 x overall diameter

Sheath Colour

● Black

Core Identification

1 core: ● Black

2 core: ● Blue ● Brown

3 core: ● Brown ● Black ● Grey

3 core including earth: ● Brown ● Blue ● Green/Yellow

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

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5N2XH1015	1	1.5	0.7	6.6	60
A5N2XH1025	1	2.5	0.7	7	75
A5N2XH1040	1	4	0.7	7.6	90
A5N2XH1060	1	6	0.7	6.5	115
A5N2XH110	1	10	0.7	7.6	165
A5N2XH116	1	16	0.7	8.6	230
A5N2XH125	1	25	0.9	11.1	340
A5N2XH135	1	35	0.9	12	440
A5N2XH150	1	50	1	12.5	570
A5N2XH170	1	70	1.1	15	795
A5N2XH195	1	95	1.1	17	1055
A5N2XH1120	1	120	1.3	17.65	1315
A5N2XH1150	1	150	1.4	21	1600
A5N2XH1185	1	185	1.6	23	1975
A5N2XH1240	1	240	1.7	24.4	2525
A5N2XH1300	1	300	1.8	26	3150
A5N2XH2015	2	1.5	0.7	12	125
A5N2XH2025	2	2.5	0.7	12.1	155
A5N2XH2040	2	4	0.7	13	195
A5N2XH2060	2	6	0.7	14	295
A5N2XH210	2	10	0.7	14	390
A5N2XH216	2	16	0.7	16.2	560
A5N2XH225	2	25	0.9	19	850
A5N2XH235	2	35	0.9	21.4	1010
A5N2XH250	2	50	1	24.8	1364
A5N2XH270	2	70	1.1	28.9	1924
A5N2XH295	2	95	1.1	32.9	2578
A5N2XH2120	2	120	1.3	37.7	3307
A5N2XH2150	2	150	1.4	40.9	4005
A5N2XH2185	2	185	1.6	45.3	4964
A5N2XH2240	2	240	1.7	52.1	6503
A5N2XH2300	2	300	1.8	58.3	8219
A5N2XH3015	3	1.5	0.7	12	145
A5N2XH3025	3	2.5	0.7	13	180
A5N2XH3040	3	4	0.7	14	235
A5N2XH3060	3	6	0.7	15	325
A5N2XH310	3	10	0.7	15.4	485
A5N2XH316	3	16	0.7	17.1	705
A5N2XH325	3	25	0.9	20.5	1080
A5N2XH335	3	35	0.9	22.8	1425
A5N2XH350	3	50	1	26.5	1840
A5N2XH370	3	70	1.1	30.1	2540
A5N2XH395	3	95	1.1	34.1	3430
A5N2XH3120	3	120	1.3	39.1	4440
A5N2XH3150	3	150	1.4	42.2	5380

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5N2XH3185	3	185	1.6	46.7	6920
A5N2XH3240	3	240	1.7	53.5	8420
A5N2XH3300	3	300	1.8	62.7	10927
A5N2XH3400	3	400	2	69.9	13709
A5N2XH316/10	3 + Earth	16/10	0.7	18.5	779
A5N2XH325/16	3 + Earth	25/16	0.9	22.1	1175
A5N2XH335/16	3 + Earth	35/16	0.9	24.3	1480
A5N2XH350/25	3 + Earth	50/25	1	28.2	2031
A5N2XH370/35	3 + Earth	70/35	1.1	32.1	2813
A5N2XH395/50	3 + Earth	95/50	1.1	36.4	3772
A5N2XH3120/70	3 + Earth	120/70	1.3	41.4	4858
A5N2XH3150/70	3 + Earth	150/70	1.4	44.2	5680
A5N2XH3185/95	3 + Earth	185/95	1.6	48.4	7082
A5N2XH3240/120	3 + Earth	240/120	1.7	56.5	9363
A5N2XH3300/150	3 + Earth	300/150	1.9	63.3	11939
A5N2XH4015	4	1.5	0.7	12	170
A5N2XH4025	4	2.5	0.7	13	215
A5N2XH4040	4	4	0.7	14.5	290
A5N2XH4060	4	6	0.7	16	390
A5N2XH410	4	10	0.7	18.5	600
A5N2XH416	4	16	0.7	21	870
A5N2XH425	4	25	0.9	25.5	1365
A5N2XH435	4	35	0.9	28.5	1875
A5N2XH450	4	50	1	31.1	2550
A5N2XH470	4	70	1.1	36.2	3010
A5N2XH495	4	95	1.1	40.6	3960
A5N2XH4120	4	120	1.3	45.4	5160
A5N2XH4150	4	150	1.4	49.5	6150
A5N2XH4185	4	185	1.6	54.4	7780
A5N2XH4240	4	240	1.7	61.5	9550
A5N2XH5015	5	1.5	0.7	13	195
A5N2XH5025	5	2.5	0.7	14.5	255
A5N2XH5040	5	4	0.7	16	345
A5N2XH5060	5	6	0.7	17.5	475
A5N2XH510	5	10	0.7	20	735
A5N2XH516	5	16	0.7	23	1070
A5N2XH525	5	25	0.9	25.6	1605
A5N2XH535	5	35	0.9	28.7	2139
A5N2XH550	5	50	1	33	2870
A5N2XH570	5	70	1.1	38.2	4054
A5N2XH595	5	95	1.1	43	5415
A5N2XH5120	5	120	1.3	50	7039
A5N2XH5150	5	150	1.4	53.2	8447

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity at 30°C

NOMINAL CROSS SECTIONAL AREA mm ²	NO. OF CORES										
	1		2		3 AND 4		7	10	12 AND 14	19	24
	In Ground Amps	In Air Amps	In Ground Amps	In Air Amps	In Ground Amps	In Air Amps	In Air Amps	In Air Amps	In Air Amps	In Air Amps	In Air Amps
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	-	-	-	-	-	-	-	-	-