

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

VDE 0274 Part 604, VDE0276 Part 604, HD 604 S1, IEC 60364, EN 60228, EN 62230,
Flame Retardant according to IEC 60332-3-24, IEC 60332-1-2
Low Smoke Density / Halogen free according to IEC 61034-1/2, IEC 60754-1/2
UV Resistant / UV stable. Ozone Resistant - EN 50396
Abrasion Resistant - EN 60229-4.1

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 2015/65/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	RM	0.7	8.35	90
A5N2XH010060	1	6	RM	0.7	8.90	115
A5N2XH01010	1	10	RM	0.7	9.65	165
A5N2XH01016	1	16	RM	0.7	10.50	230
A5N2XH01025	1	25	RM	0.9	12.05	340
A5N2XH01035	1	35	RM	0.9	13.10	440
A5N2XH01050	1	50	RM	1	14.50	570
A5N2XH01070	1	70	RM	1.1	16.30	795
A5N2XH01095	1	95	RM	1.1	18.00	1055
A5N2XH01120	1	120	RM	1.3	19.50	1315
A5N2XH01150	1	150	RM	1.4	21.70	1600
A5N2XH01185	1	185	RM	1.6	23.50	1975
A5N2XH01240	1	240	RM	1.7	26.40	2525
A5N2XH01300	1	300	RM	1.8	28.70	3030
A5N2XH01400	1	400	RM	2.0	31.90	3820
A5N2XH01500	1	500	RM	2.2	35.30	4825
A5N2XH01630	1	630	RM	2.4	39.60	6200
A5N2XH02015	2	1.5	RE	0.7	9.35	125
A5N2XH02025	2	2.5	RE	0.7	10.10	155
A5N2XH02040	2	4	RE	0.7	11.05	195
A5N2XH02060	2	6	RE	0.7	12.05	295
A5N2XH0210	2	10	RE	0.7	14.50	390
A5N2XH0216	2	16	RE	0.7	16.40	560
A5N2XH0225	2	25	RM	0.9	19.90	850
A5N2XH0235	2	35	RM	0.9	22.20	1010
A5N2XH0250	2	50	RM	1	25.00	1364
A5N2XH0270	2	70	RM	1.1	28.80	1924
A5N2XH0295	2	95	RM	1.1	32.60	2578
A5N2XH02120	2	120	RM	1.3	36.00	3307
A5N2XH02150	2	150	RM	1.4	41.20	4005
A5N2XH02185	2	185	RM	1.6	45.20	4964
A5N2XH02240	2	240	RM	1.7	51.20	6503
A5N2XH02300	2	300	RM	1.8	56.20	8219
A5N2XH03015	3	1.5	RE	0.7	9.8	145
A5N2XH03025	3	2.5	RE	0.7	10.60	180
A5N2XH03040	3	4	RE	0.7	11.65	235
A5N2XH03060	3	6	RE	0.7	12.70	325
A5N2XH0310	3	10	RE	0.7	15.35	485
A5N2XH0316	3	16	RE	0.7	17.40	705
A5N2XH0325	3	25	RM	0.9	21.15	1080
A5N2XH0335	3	35	SM	0.9	23.60	1425
A5N2XH0350	3	50	SM	1	26.65	1840
A5N2XH0370	3	70	SM	1.1	30.70	2540
A5N2XH0395	3	95	SM	1.1	35.00	3430
A5N2XH03120	3	120	SM	1.3	38.65	4440
A5N2XH03150	3	150	SM	1.4	44.00	5380



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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
A5N2XH03185	3	185	SM	1.6	48.30	6920
A5N2XH03240	3	240	SM	1.7	55.00	8420
A5N2XH03300	3	300	SM	1.8	60.30	10927
A5N2XH03400	3	400	SM	2	67.80	13709
A5N2XH0316/10	3 + E	16/10	RE	0.7	18.45	779
A5N2XH0325/16	3 + E	25/16	RM	0.9	22.40	1175
A5N2XH0335/16	3 + E	35/16	SM	0.9	24.30	1480
A5N2XH0350/25	3 + E	50/25	SM	1	28.00	2031
A5N2XH0370/35	3 + E	70/35	SM	1.1	31.90	2813
A5N2XH0395/50	3 + E	95/50	SM	1.1	36.40	3772
A5N2XH03120/70	3 + E	120/70	SM	1.3	40.65	4858
A5N2XH03150/70	3 + E	150/70	SM	1.4	45.40	5680
A5N2XH03185/95	3 + E	185/95	SM	1.6	50.10	7082
A5N2XH03240/120	3 + E	240/120	SM	1.7	56.70	9363
A5N2XH03300/150	3 + E	300/150	SM	1.9	62.60	11939
A5N2XH04015	4	1.5	RE	0.7	10.50	170
A5N2XH04025	4	2.5	RE	0.7	11.40	215
A5N2XH04040	4	4	RE	0.7	12.60	290
A5N2XH04060	4	6	RE	0.7	13.75	390
A5N2XH0410	4	10	RE	0.7	17.00	600
A5N2XH0416	4	16	RE	0.7	19.00	870
A5N2XH0425	4	25	RM	0.9	23.35	1365
A5N2XH0435	4	35	SM	0.9	25.85	1875
A5N2XH0450	4	50	SM	1	29.45	2550
A5N2XH0470	4	70	SM	1.1	34.00	3010
A5N2XH0495	4	95	SM	1.1	38.75	3960
A5N2XH04120	4	120	SM	1.3	42.55	5160
A5N2XH04150	4	150	SM	1.4	48.70	6150
A5N2XH04185	4	185	SM	1.6	53.45	7780
A5N2XH04240	4	240	SM	1.7	60.90	9550
A5N2XH05015	5	1.5	RE	0.7	11.45	195
A5N2XH05025	5	2.5	RE	0.7	12.45	255
A5N2XH05040	5	4	RE	0.7	13.80	345
A5N2XH05060	5	6	RE	0.7	15.10	475
A5N2XH0510	5	10	RE	0.7	18.60	735
A5N2XH0516	5	16	RE	0.7	21.00	1070
A5N2XH0525	5	25	RM	0.9	25.70	1605
A5N2XH0535	5	35	RM	0.9	28.70	2139
A5N2XH0550	5	50	RM	1	32.70	2870
A5N2XH0570	5	70	RM	1.1	37.60	4054
A5N2XH0595	5	95	RM	1.1	42.80	5415
A5N2XH05120	5	120	RM	1.3	47.80	7039
A5N2XH05150	5	150	RM	1.4	54.20	8447
A5N2XH05185	5	185	RM	1.6	59.00	10800
A5N2XH05240	5	240	RM	1.7	69.90	14600



ELECTRICAL CHARACTERISTICS

Single core

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A				MAXIMUM CONDUCTOR DC RESISTANCE AT 20 °C Ω/Km	PULLING FORCE kN	
		In Conduit Flat	In Conduit Trefoil	In Air Flat	In Air Trefoil		(# *S*70)/1000	(# *S*50)/1000
1	4	66	55	56	44	4.61	0.28	0.20
1	6	82	68	71	57	3.08	0.42	0.30
1	10	109	90	96	77	1.83	0.70	0.50
1	16	139	115	128	102	1.15	1.12	0.80
1	25	179	149	173	139	0.727	1.75	1.25
1	35	213	178	212	170	0.524	2.45	1.75
1	50	251	211	258	208	0.387	3.50	2.50
1	70	307	259	328	265	0.268	4.90	3.50
1	95	366	310	404	329	0.193	6.65	4.75
1	120	416	352	471	381	0.153	8.40	6.00
1	150	465	396	541	438	0.124	10.50	7.50
1	185	526	449	626	507	0.0991	12.95	9.25
1	240	610	521	749	606	0.0754	16.80	12.00
1	300	689	587	864	697	0.0601	21.00	15.00
1	400	788	669	1018	816	0.047	28.00	20.00
1	500	889	748	1173	993	0.0366	35.00	25.00
1	630	1421	935	1486	1083	0.0283	44.10	31.50

Multi core

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR DC RESISTANCE AT 20 °C Ω/Km	PULLING FORCE kN	
		In Conduit	In Air		(# *S*70)/1000	(# *S*50)/1000
2	1.5	30	24	12.1	0.21	0.15
2	2.5	40	32	7.41	0.35	0.25
2	4	52	42	4.61	0.56	0.40
2	6	64	53	3.08	0.84	0.60
2	10	86	73	1.83	1.40	1.00
2	16	111	96	1.15	2.24	1.60
2	25	143	130	0.727	3.50	2.50
2	35	173	160	0.524	4.90	3.50
2	50	205	195	0.387	7.00	5.00
2	70	252	247	0.268	9.80	7.00
2	95	303	305	0.193	13.30	9.50
2	120	346	355	0.153	16.80	12.00
2	150	390	407	0.124	21.00	15.00
2	185	441	469	0.0991	25.90	18.50
2	240	511	551	0.0754	33.60	24.00
2	300	580	638	0.0601	42.00	30.00



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CABLES

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR DC RESISTANCE AT 20 °C Ω/Km	PULLING FORCE kN	
		In Conduit	In Air		(# *S*70)/1000	(# *S*50)/1000
3	1.5	30	24	12.1000	0.32	0.23
3	2.5	40	32	7.41	0.53	0.38
3	4	52	42	4.6100	0.84	0.60
3	6	64	53	3.08	1.26	0.90
3	10	86	73	1.8300	2.10	1.50
3	16	111	96	1.15	3.36	2.40
3	25	143	130	0.7270	5.25	3.75
3	35	173	160	0.524	7.35	5.25
3	50	205	195	0.3870	10.50	7.50
3	70	252	247	0.268	14.70	10.50
3	95	303	305	0.1930	19.95	14.25
3	120	346	355	0.153	25.20	18.00
3	150	390	407	0.1240	31.50	22.50
3	185	441	469	0.0991	38.85	27.75
3	240	511	551	0.0754	50.40	36.00
3	300	580	638	0.0601	63.00	45.00
3	400	663	746	0.0470	84.00	60.00
3+3	16+10	111	96	1.15 / 1.83	4.48	2.90
3+3	25+16	143	130	0.727 / 1.15	7.00	4.55
3+3	35+16	173	160	0.524 / 1.15	9.80	6.05
3+3	50+25	205	195	0.387 / 0.727	14.00	8.75
3+3	70+35	252	247	0.268 / 0.524	19.60	12.25
3+3	95+50	303	305	0.193 / 0.387	26.60	16.75
3+3	120+70	346	355	0.153 / 0.268	33.60	21.50
3+3	150+70	390	407	0.124 / 0.268	42.00	26.00
3+3	185+95	441	469	0.0991 / 0.193	51.80	32.50
3+3	240+120	511	551	0.0754 / 0.153	67.20	42.00
3+3	300+150	580	638	0.0601 / 0.124	84.00	52.50
4	1.5	30	24	12.1	0.42	0.30
4	2.5	40	32	7.41	0.7	0.50
4	4	52	42	4.61	1.12	0.80
4	6	64	53	3.08	1.68	1.20
4	10	86	73	1.83	2.8	2.00
4	16	111	96	1.15	4.48	3.20
4	25	143	130	0.727	7	5.00
4	35	173	160	0.524	9.8	7.00
4	50	205	195	0.387	14	10.00
4	70	252	247	0.268	19.6	14.00
4	95	303	305	0.193	26.6	19.00
4	120	346	355	0.153	33.6	24.00
4	150	390	407	0.124	42	30.00
4	185	441	469	0.0991	51.8	37.00
4	240	511	551	0.0754	67.2	48.00



NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR DC RESISTANCE AT 20 °C Ω/Km	PULLING FORCE kN	
		In Conduit	In Air		(# *S*70)/1000	(# *S*50)/1000
5	1.5	30	24	12.1	0.53	0.38
5	2.5	40	32	7.41	0.88	0.63
5	4	52	42	4.61	1.4	1.00
5	6	64	53	3.08	2.1	1.50
5	10	86	73	1.83	3.5	2.50
5	16	111	96	1.15	5.6	4.00
5	25	143	130	0.727	8.75	6.25
5	35	173	160	0.524	12.25	8.75
5	50	205	195	0.387	17.5	12.50
5	70	252	247	0.268	24.5	17.50
5	95	303	305	0.193	33.25	23.75
5	120	346	355	0.153	42	30.00
5	150	390	407	0.124	52.5	37.50
5	185	441	469	0.0991	64.75	46.25
5	240	511	551	0.0754	84	60.00

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.