



NA2XH Aluminium Conductor IEC 60502-1 XLPE 0.6/1kV Cable



Eland Product Group: A5N

APPLICATION

XLPE insulated and halogen-free thermoplastic compound sheathed power and auxiliary fixed wiring cables for the supply of electrical energy. Installations where fire and emissions of smoke and toxic fumes create a potential threat. Not suitable for use in water.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

AC: 0.6/1 (1.2)kV

DC: 0.75/1.5 (1.8)kV

Temperature Rating

Fixed: -40°C to +90°C

Minimum Bending Radius

Single core: 15 x overall diameter

Multi-core: 12 x overall diameter

CONSTRUCTION

Conductor

RE: Class 1 solid aluminium-circular or circular compacted

RM: Class 2 stranded

SE: Class 1 solid sector - shaped or stranded

SM: Class 2 sector - shaped

Insulation

XLPE (Cross-Linked Polyethylene)

Sheath

LSZH (Low Smoke Zero Halogen)

Core Identification

3 core: ● Green/Yellow ● Blue ● Brown

4 core: ● Green/Yellow ● Brown ● Black ● Grey

5 core: ● Green/Yellow ● Blue ● Brown ● Grey

7 and more: ● Black with ○ White numbers

Sheath Colour

● Black

CABLE STANDARDS

IEC 60502-1, VDE 0276 Part 604,

Low Smoke Zero Halogen according to IEC/EN 61034-1/2, IEC/EN 60754-1/2

Flame Retardant according to IEC/EN 60332-1-2, IEC/EN 60332-3-24

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 2015/853/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS



ELAND PART NO.	NO. OF CONDUCTOR	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5NA2XH1025RM	1	25	RM	9.9	132
A5NA2XH1035RM	1	35	RM	11	166
A5NA2XH1050RM	1	50	RM	12.5	211
A5NA2XH1070RM	1	70	RM	14.1	283
A5NA2XH1095RM	1	95	RM	16.1	376
A5NA2XH1120RM	1	120	RM	17.5	456
A5NA2XH1150RM	1	150	RM	19.6	560
A5NA2XH1185RM	1	185	RM	21.8	697
A5NA2XH1240RM	1	240	RM	24	878
A5NA2XH1300RM	1	300	RM	26.7	1073
A5NA2XH1400RM	1	400	RM	29.7	1347
A5NA2XH1500RM	1	500	RM	33.1	1705
A5NA2XH1630RM	1	630	RM	42.8	2705
A5NA2XH1800RM	1	800	RM	47.9	3420
A5NA2XH3016RM	3	16	RM	16.3	364
A5NA2XH3025RM	3	25	RM	19.6	530
A5NA2XH3035RM	3	35	RM	22.1	684
A5NA2XH3035SE	3	35	SE	19	486
A5NA2XH3050SM	3	50	SM	22.4	655
A5NA2XH3050SE	3	50	SE	21.2	622
A5NA2XH3070SM	3	70	SM	26.1	903
A5NA2XH3070SE	3	70	SE	25.2	859
A5NA2XH3095SM	3	95	SM	29.1	1174
A5NA2XH3095SE	3	95	SE	27.8	1115
A5NA2XH3120SM	3	120	SM	32.2	1446
A5NA2XH3120SE	3	120	SE	30.8	1379
A5NA2XH3150SM	3	150	SM	36.2	1780
A5NA2XH3150SE	3	150	SE	33.9	1685
A5NA2XH3185SM	3	185	SM	40.1	2197
A5NA2XH3185SE	3	185	SE	37.6	2089
A5NA2XH3240SM	3	240	SM	44.9	2782
A5NA2XH3240SE	3	240	SE	41.8	2634
A5NA2XH3070/35	3	70 + 35	SM+SM	28.3	1044
A5NA2XH3120/70	3	120 + 70	SM+SM	35.1	1704
A5NA2XH3150/70	3	150 + 70	SM+SM	39.7	2065
A5NA2XH3185/95	3	185 + 95	SM+SM	43.7	2563
A5NA2XH3240/120	3	240 + 120	SM+SM	49.1	3237
A5NA2XH4025RM	4	25	RM	21.7	636
A5NA2XH4035SM	4	35	SM	22.4	649
A5NA2XH4035SE	4	35	SE	21.6	623
A5NA2XH4050SM	4	50	SM	25.4	845
A5NA2XH4050SE	4	50	SE	24.6	810
A5NA2XH4070SM	4	70	SM	29.7	1178
A5NA2XH4070SE	4	70	SE	28.8	1126
A5NA2XH4095SM	4	95	SM	33.3	1538



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A5NA2XH4095SE	4	95	SE	32.1	1467
A5NA2XH4120SM	4	120	SM	37.2	1903
A5NA2XH4120SE	4	120	SE	35.5	1817
A5NA2XH4150SM	4	150	SM	41.3	2328
A5NA2XH4150SE	4	150	SE	39.4	2223
A5NA2XH4185SM	4	185	SM	45.7	2874
A5NA2XH4185SE	4	185	SE	43.4	2750
A5NA2XH4240SM	4	240	SM	51.2	3646
A5NA2XH4240SE	4	240	SE	48	3465
A5NA2XH5025RM	5	25	RM	23.9	763
A5NA2XH5035RM	5	35	RM	27	986
A5NA2XH5050RM	5	50	RM	31.3	1309
A5NA2XH5070RM	5	70	RM	35.8	1771
A5NA2XH5095SM	5	95	SM	36.5	1891
A5NA2XH5120SM	5	120	SM	39.2	2306
A5NA2XH5150SM	5	150	SM	45.4	2865
A5NA2XH5185SM	5	185	SM	50.1	3534
A5NA2XH5240SM	5	240	SM	55.2	4482

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

INSTALLATIONS			
NO. OF LOADED CORES	1	3	3
NOMINAL CROSS SECTIONAL AREA mm ²	LAYING IN AIR AT 30°C A		
25	136	102	106
35	166	126	130
50	205	149	161
70	260	191	204
95	321	234	252
120	376	273	295
150	431	311	339
185	501	360	395
240	600	427	472
300	696	507	547
400	821	600	643
500	971	695	754
630	1151	-	882
800	1355	-	1019

¹⁾ Rated Current for direct current systems with a far-distanced return conductor.

* The above is taken from DIN VDE 0276-603, DIN VDE 0276-627, HD 603 51, HD 627 51. The conversion factors for deviating ambient temperature defined in DIN VDE 0298 P4

DE-RATING FACTORS

AMBIENT TEMPERATURE	10	10	20	25	30	35	40	45	50
RATING FACTOR	1.15	1.15	1.08	1.04	1.00	0.96	0.91	0.87	0.82

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.