



# N2XCH IEC 60502-1 XLPE CWS FRNC 0.6/1kV Cable



Eland Product Group: A5N

## APPLICATION

A low smoke zero halogen, flame retardant power cable. For fixed indoor and outdoor installations as well as in concrete, but not for direct burial in ground or application in water.

## CHARACTERISTICS

**Voltage Rating** Uo/U  
0.6/1kV

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

**Minimum Bending Radius**  
15 x overall diameter

## CONSTRUCTION

### Conductor

RE: Class 1 solid copper  
RM:: Class 2 circular stranded copper  
SM: Class 2 sectorial stranded copper

### Insulation

XLPE (Cross-Linked Polyethylene)

### Inner Sheath

Halogen-free compound

### Concentric Conductor

Copper wires with counter helix of copper tape

### Sheath

LSZH (Low Smoke Zero Halogen)

### Core Identification

2 core: ● Brown ● Blue  
3 core: ● Brown ● Black ● Grey  
4 core: ● Blue ● Brown ● Black ● Grey  
5 core: ● Black ● Blue ● Brown ● Black ● Grey

### Sheath Colour

● Black

## STANDARDS

IEC 60502-1 VDE 0276 Part 604,

Flame Retardant according to IEC/EN 60332-3-24  
Low Smoke Zero Halogen according to IEC/EN 60754-1/2, IEC/EN 61034-1/2

## ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



## 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 and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



## DIMENSIONS

ELAND PART NO.	NO. OF CORES	CONDUCTOR TYPE	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CONCENTRIC CONDUCTOR CROSS SECTION mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5N2XCH02015	2	RE	1.5	1.5	0.7	12	250
A5N2XCH02025	2	RE	2.5	2.5	0.7	12	280
A5N2XCH02040	2	RE	4	4	0.7	14	320
A5N2XCH02060	2	RE	6	6	0.7	15	410
A5N2XCH0210	2	RE	10	10	0.7	17	550
A5N2XCH0216	2	RE	16	16	0.7	19	780
A5N2XCH03015	3	RE	1.5	1.5	0.7	12	250
A5N2XCH03025	3	RE	2.5	2.5	0.7	13	320
A5N2XCH03040	3	RE	4	4	0.7	14	400
A5N2XCH03060	3	RE	6	6	0.7	16	500
A5N2XCH0310	3	RE	10	10	0.7	18	750
A5N2XCH0316	3	RE	16	16	0.7	21	1000
A5N2XCH0325	3	RM	25	16	0.9	24	1600
A5N2XCH0335	3	SM	35	16	0.9	27	1900
A5N2XCH0350	3	SMv	50	25	1	30	2400
A5N2XCH0370	3	SMv	70	35	1.1	34	2615
A5N2XCH0395	3	SMv	95	50	1.1	38.1	3636
A5N2XCH03120	3	SMv	120	70	1.2	42.5	4606
A5N2XCH03150	3	SMv	150	70	1.4	47	5552
A5N2XCH03185	3	SMv	185	95	1.6	50	6680
A5N2XCH03240	3	SMv	240	120	1.7	57.1	8964
A5N2XCH04015	4	RE	1.5	1.5	0.7	13	235
A5N2XCH04025	4	RE	2.5	2.5	0.7	14	302
A5N2XCH04040	4	RE	4	4	0.7	15	411
A5N2XCH04060	4	RE	6	6	0.7	17	527
A5N2XCH0410	4	RE	10	10	0.7	19	762
A5N2XCH0416	4	RE	16	16	0.7	22	1139
A5N2XCH0425	4	RM	25	16	0.9	27	1634
A5N2XCH0435	4	SM	35	16	0.9	29	2080
A5N2XCH0450	4	SMv	50	25	1	33	2790
A5N2XCH0470	4	SMv	70	35	1.1	41	3550
A5N2XCH0495	4	SMv	95	50	1.1	46	4800
A5N2XCH04120	4	SMv	120	70	1.2	50	6556
A5N2XCH04150	4	SMv	150	70	1.4	55	7904
A5N2XCH04185	4	SMv	185	95	1.6	62	9950
A5N2XCH04240	4	SMv	240	120	1.7	68	12912
A5N2XCH05015	5	RE	1.5	1.5	0.7	14	283
A5N2XCH07015	7	RE	1.5	2.5	0.7	16	380
A5N2XCH07025	7	RE	2.5	2.5	0.7	18	480
A5N2XCH07040	7	RE	4	4	0.7	19	650
A5N2XCH07060	7	RE	6	6	0.7	20	850
A5N2XCH10025	10	RE	2.5	4	0.7	18	550
A5N2XCH12015	12	RE	1.5	2.5	0.7	20	550
A5N2XCH12025	12	RE	2.5	4	0.7	21	750
A5N2XCH14015	14	RE	1.5	2.5	0.7	17.6	486
A5N2XCH21025	21	RE	2.5	10	0.7	23	1050
A5N2XCH24015	24	RE	1.5	6	0.7	25	950
A5N2XCH24025	24	ER	2.5	10	0.7	26	1106

ELAND PART NO.	NO. OF CORES	CONDUCTOR TYPE	CONDUCTOR NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CONCENTRIC CONDUCTOR CROSS SECTION mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5N2XCH30015	30	RE	1.5	6	0.7	27	1100
A5N2XCH30025	30	RE	2.5	6	0.7	28	1500

## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
1.5	12.1
2.5	7.41
4	4.61
6	3.08
10	1.83
16	1.15
25	0.727
35	0.524
50	0.387
70	0.268
95	0.193
120	0.153
150	0.124
185	0.0991
240	0.0754

## ELECTRICAL CHARACTERISTICS

### Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY IN AIR Amps	
	2,3 and 4 core	7 core and above
1.5	25	24
2.5	33	32
4	43	42
6	54	53
10	75	-
16	100	-
25	136	-
35	165	-
50	201	-
70	255	-
95	314	-
120	364	-
150	416	-
185	480	-
240	565	-

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.