

NA2XS(FL)H / NA2XS(FL)EH 12/20 (24)kV Cable



Eland Product Group: CX9

APPLICATION

UV resistant Medium voltage cables for distribution networks and connection to generation units and plant and process connection. LSZH outer sheathing makes the cable suitable for internal installation as well as directly in ground, outdoors, and in cable ducts. Waterblocking properties to make longitudinally and radially watertight, preventing water propagation along the cable.

CHARACTERISTICS

Voltage Rating U_o/U (U_m)
12/20 (24)kV

Temperature Rating

Permissible operating temperature of conductor: +90°C
Permissible short-circuit temperature up to 5 sec: +250°C

Minimum Bending Radius

15 x overall diameter

CONSTRUCTION

Conductor

Class 2 Stranded Aluminium

Inner Semi-Conductive Layer

Semi-conductive Material

Insulation

XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer

Semi-conductive Material

Screen

Copper Wires and Copper Tape

Waterblock 1

Water-swellable tape (longitudinal)

Waterblock 2

Water-swellable tape (radial) or powders

Filler

LSZH (Low Smoke Zero Halogen)

Sheath

LSZH (Low Smoke Zero Halogen) UV Resistant

Sheath Colour

● Red

STANDARDS

IEC 60502-2,
Flame Retardant according to EN 60332-1-2

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 meets the requirements of 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	NOMINAL CROSS SECTIONAL AREA mm ²		NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
		Conductor	Copper Wire Screen		
C9XHL20KV1035RDC	1	35	16	28	850
C9XHL20KV1050RDC	1	50	16	29	900
C9XHL20KV1070RDC	1	70	16	31	1000
C9XHL20KV1095RDC	1	95	16	33	1200
C9XHL20KV1120RDC	1	120	16	34	1300
C9XHL20KV1150RDC	1	150	25	36	1500
C9XHL20KV1185RDC	1	185	25	37	1650
C9XHL20KV1240RDC	1	240	25	39	1900
C9XHL20KV1300RDC	1	300	25	41	2200
C9XHL20KV1400RDC	1	400	35	44	2600
C9XHL20KV1500RDC	1	500	35	47	3000
C9XHL20KV1630RDC	1	630	35	52	3500
C9XHL20KV3035RDC	3	35	16	54	2800
C9XHL20KV3050RDC	3	50	16	57	3200
C9XHL20KV3070RDC	3	70	16	61	3750
C9XHL20KV3095RDC	3	95	16	65	4250
C9XHL20KV3120RDC	3	120	16	67	4750
C9XHL20KV3150RDC	3	150	25	71	5400
C9XHL20KV3185RDC	3	185	25	75	6000
C9XHL20KV3240RDC	3	240	25	80	7000
C9XHL20KV3300RDC	3	300	25	85	8000
C9XHL20KV3400RDC	3	400	35	91	9500

ELECTRICAL CHARACTERISTICS

Single Core

NOMINAL CROSS SECTIONAL AREA OF CONDUCTOR mm ²	NOMINAL SHORT-CIRCUIT CURRENT FOR 1 SECOND OF CONDUCTOR kA	CONDUCTOR DC RESISTANCE AT 20°C Ohm/km	CONDUCTOR AC RESISTANCE BY MAX. TEMPERATURE Ohm/km	CURRENT CARRYING CAPACITY A	
				In Ground at 20°C	In Air at 30°C
35	3.29	0.868	1.120	145	154
50	4.70	0.641	0.825	195	217
70	6.58	0.443	0.570	237	270
95	8.93	0.320	0.412	282	328
120	11.28	0.253	0.328	320	378
150	14.10	0.206	0.268	353	425
185	17.39	0.164	0.213	396	485
240	22.56	0.125	0.163	457	573
300	28.20	0.100	0.132	511	652
400	37.60	0.0778	0.103	566	740
500	47.00	0.0605	0.081	630	838
630	59.22	0.0469	0.064	701	882

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.



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elandcables.com | [NA2XS\(FL\)H / NA2XSE\(FL\)H 12-20 \(24\)kV Cable](#)

Multi Core

NOMINAL CROSS SECTIONAL AREA OF CONDUCTOR mm ²	NOMINAL SHORT-CIRCUIT CURRENT FOR 1 SECOND OF CONDUCTOR kA	CONDUCTOR DC RESISTANCE AT 20°C Ohm/km	CONDUCTOR AC RESISTANCE BY MAX. TEMPERATURE Ohm/km	CURRENT CARRYING CAPACITY A	
				In Ground at 20°C	In Air at 30°C
35	3.29	0.868	1.120	142	140
50	4.70	0.641	0.825	167	167
70	6.58	0.443	0.570	205	208
95	8.93	0.320	0.412	244	251
120	11.28	0.253	0.328	279	291
150	14.10	0.206	0.268	312	329
185	17.39	0.164	0.213	355	379
240	22.56	0.125	0.163	412	446
300	28.20	0.100	0.132	476	513
400	37.60	0.0778	0.103	552	593

Air ambient temperature: 30°C

Ground ambient temperature: 20°C