

NA2XSH / NA2XSEH 12/20 (24)kV Cable



Eland Product Group: CX9

APPLICATION

UV resistant Medium voltage cables for distribution networks; also for connection to generation units and plant and process connection. LSZH outer sheath allows internal and external installation including directly in ground and in cable ducts.

CHARACTERISTICS

Voltage Rating U₀/U (Um)
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

Conductor Screen

Semi-Conductive material

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-Conductive material

Filler

LSZH (Low Smoke Zero Halogen)

Screen

Copper Wires and Copper Tape

Sheath

LSZH (Low Smoke Zero Halogen) - UV Resistant

Sheath Colour

● Red

STANDARDS

IEC 60502-2,

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

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECCE 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 meets the requirements of 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		NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
		Conductor	Copper Wire Screen		
C9XH20KV1035RDC	1	35	16	27	800
C9XH20KV1050RDC	1	50	16	28	850
C9XH20KV1070RDC	1	70	16	30	950
C9XH20KV1095RDC	1	95	16	32	1100
C9XH20KV1120RDC	1	120	16	33	1200
C9XH20KV1150RDC	1	150	25	34	1400
C9XH20KV1185RDC	1	185	25	36	1600
C9XH20KV1240RDC	1	240	25	38	1800
C9XH20KV1300RDC	1	300	25	38	2000
C9XH20KV1400RDC	1	400	35	43	2500
C9XH20KV1500RDC	1	500	35	46	2900
C9XH20KV1630RDC	1	630	35	50	3500
C9XH20KV3035RDC	3	35	16	52	2750
C9XH20KV3050RDC	3	50	16	55	3000
C9XH20KV3070RDC	3	70	16	60	3500
C9XH20KV3095RDC	3	95	16	63	4200
C9XH20KV3120RDC	3	120	16	66	4500
C9XH20KV3150RDC	3	150	25	70	5250
C9XH20KV3185RDC	3	185	25	73	5800
C9XH20KV3240RDC	3	240	25	79	6800
C9XH20KV3300RDC	3	300	25	84	7800
C9XH20KV3400RDC	3	400	25	90	9400

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	0.078	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.



ELECTRICAL CHARACTERISTICS

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	0.078	0.103	552	593

Air ambient temperature: 30°C

Ground ambient temperature: 20°C