



NTSCGECEWÖU 8.7/15kV and 12/20kV Cable



Eland Product Group: A7HN

APPLICATION

Flexible cable for fixed energy distribution in mines and alongside material handling equipment. Suitable for indoor and outdoor applications.

CHARACTERISTICS

Voltage Rating U_o/U

8.7/15kV
12/20kV

Test Voltage

8.7/15kV: 24kV
12/20kV: 29kV

Ambient Temperature

Fixed: -40°C to +80°C

Maximum Short Circuit Temperature

+250°C

Minimum Bending Radius

Fixed: 6 x overall diameter

CONSTRUCTION

Phase Conductor

Class 5 tinned copper conductor

Insulation

Rubber compound

Semi-Conductive Layers

Semi-conductive tape over the conductor and inner and outer semi-conductive rubber layer on the insulation

Protective Earth Conductor

Individual copper wire braid

Central Filler

Rubber compound on a textile polyester support

Inner Sheath

Rubber compound

Outer Sheath

Rubber compound

Sheath Colour

● Red

CABLE THIRD-PARTY ACCREDITATION

VDE APPROVED - Cables are tested and approved by the VDE Testing & Certification Institute.

STANDARDS

VDE 0250 Part 813, VDE 0295, EN 60228

Flame Retardant according to IEC/EN 60332-1-2

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.	VOLTAGE kV	NO. OF CORES (PHASE + EARTH)	NOMINAL CROSS SECTIONAL AREA mm ²		CONDUCTOR DIAMETER mm	MINIMUM OVERALL DIAMETER mm	MAXIMUM OVERALL DIAMETER mm	MAXIMUM TENSILE LOAD N	NOMINAL WEIGHT kg/km
			Phase Conductor	Earth Conductor					
A7HN15KV1025RD	8.7/15	3+3	25	25/3E	6.8	47.3	49	1125	3200
A7HN15KV1035RD	8.7/15	3+3	35	25/3E	7.8	48.8	50.6	1575	3570
A7HN15KV1050RD	8.7/15	3+3	50	25/3E	9.4	53.7	55.5	2250	4440
A7HN15KV1070RD	8.7/15	3+3	70	35/3E	11.2	57.5	59.3	3150	5410
A7HN15KV1095RD	8.7/15	3+3	95	50/3E	12.7	60.8	63.1	4275	6480
A7HN15KV1120RD	8.7/15	3+3	120	70/3E	14.4	66.8	69.1	5400	8060
A7HN15KV1150RD	8.7/15	3+3	150	70/3E	16.3	71.5	73.9	6750	9370
A7HN20KV1025RD	12/20	3+3	25	25/3E	6.8	49.8	51.6	1125	3450
A7HN20KV1035RD	12/20	3+3	35	25/3E	7.8	51.3	53.1	1575	3810
A7HN20KV1050RD	12/20	3+3	50	25/3E	9.4	56.3	58.1	2250	4740
A7HN20KV1070RD	12/20	3+3	70	35/3E	11.2	60.1	61.9	3150	5730
A7HN20KV1095RD	12/20	3+3	95	50/3E	12.7	63.3	65.6	4275	6810
A7HN20KV1120RD	12/20	3+3	120	70/3E	14.4	69.3	71.7	5400	8420

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	LAYING ON THE FLOOR Amps	REELED Amps						
		1 Layer	2 Layer	3 Layer	4 Layer	5 Layer	6 Layer	7 Layer
25	139	111	85	68	58	53	38	31
35	172	138	105	84	72	65	46	38
50	216	173	132	106	91	82	58	48
70	265	212	162	130	111	101	72	58
95	319	255	195	156	134	121	86	70
120	371	297	226	182	156	141	100	82
150	428	342	261	210	180	163	116	94

Ambient temperature of 30°C

VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm ²	POWER FACTOR			
	0.7	0.8	0.9	1
25	1.29	1.45	1.6	1.71
35	0.95	1.06	1.16	1.23
50	0.69	0.77	0.83	0.87
70	0.51	0.56	0.6	0.61
95	0.41	0.45	0.47	0.47
120	0.34	0.36	0.38	0.36
150	0.29	0.31	0.32	0.29

DE-RATING FACTORS

AMBIENT TEMPERATURE	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C
DE-RATING FACTOR	1.15	1.12	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	0.50	0.41

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.