



ARE4H5EX - Compact Cable



APPLICATION

Medium Voltage power cable suitable for laying in underground channels; in underground pipe; in open air; Underground installation with protection is also allowed. Suitable in wind power plants.

CHARACTERISTICS

Voltage
12/20 kV,
18/30 kV

Temperature Rating

Minimum installation temperature: -25°C
Maximum operating temperature: 90°C
Maximum temperature during short circuit: 250°C

CONSTRUCTION

Conductor

Class 2 compacted stranded aluminium

Conductor Screen

Semi-conductive XLPE compound

Insulation

XLPE (Cross-Linked Polyethylene) compound (DIX 8)

Insulation Screen

Semi-conductive XLPE compound

Protective Layer

Semiconductive watertight tape

Metallic Screen

Aluminium tape longitudinally applied

Outer Sheath

PE (Polyethylene) (DPM 2)

Outer Sheath Colour

● Red

STANDARDS

HD 620, IEC 60502-2,

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 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 12/20KV

ELAND PART NUMBERS	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL CONDUCTOR DIAMETER mm	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km	MINIMUM BENDING RADIUS mm
B4B20KV03050	3	50	8.2	19.9	28	1730	550
B4B20KV03070	3	70	9.7	20.8	29	1940	570
B4B20KV03095	3	95	11.4	22.1	30	2230	590
B4B20KV03120	3	120	12.9	23.2	32	2510	630
B4B20KV03150	3	150	14.0	24.3	33	2800	660
B4B20KV03185	3	185	15.8	26.1	35	3260	700
B4B20KV03240	3	240	18.2	28.5	37	3930	740
B4B20KV03300	3	300	20.8	31.7	42	4730	820

ELECTRICAL CHARACTERISTICS 12/20KV

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING IN OPEN AIR INSTALLATION A	CURRENT RATING IN UNDERGROUND INSTALLATION TREFOIL A	
		P=1 °C M/W	P=2 °C M/W
50	186	175	134
70	230	214	164
95	280	256	197
120	323	291	223
150	365	325	250
185	421	368	283
240	500	427	328
300	578	483	371

DIMENSIONS 18/30KV

ELAND PART NUMBERS	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL CONDUCTOR DIAMETER mm	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km	MINIMUM BENDING RADIUS mm
B4B30KV03050	3	50	8.2	25,5	34	2480	680
B4B30KV03070	3	70	9.7	25,6	34	2600	680
B4B30KV03095	3	95	11.4	26,5	35	2860	700
B4B30KV03120	3	120	12.9	27,4	36	3120	720
B4B30KV03150	3	150	14.0	28,1	37	3390	740
B4B30KV03185	3	185	15.8	29,5	38	3790	760
B4B30KV03240	3	240	18.2	31,5	42	4440	820
B4B30KV03300	3	300	20.8	34,7	45	5240	890

ELECTRICAL CHARACTERISTICS 18/30KV

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING IN OPEN AIR INSTALLATION A	CURRENT RATING IN UNDERGROUND INSTALLATION TREFOIL A	
		P=1 °C M/W	P=2 °C M/W
50	190	175	134
70	235	213	164
95	285	255	196
120	328	291	223
150	370	324	249
185	425	368	283
240	503	426	327
300	581	480	369