ARE4H5EXY 12/20kV Cable

APPLICATION

Medium Voltage power cable suitable for use indoors and outdoors. Suitable for fixed installation in free air, on masonry and metal structures, on walkways, pipes, channels and other similar systems. The central aluminium messenger wire aids support.

CHARACTERISTICS

Voltage
12/20 kV

Temperature Rating
Maximum operating temperature (conductor): 90°C
Maximum temperature during short circuit (conductor): 250°C
Maximum operating temperature (screen): 75°C
Maximum temperature during short circuit (screen): 150°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

Metallic Screen
Aluminium tape longitudinally applied to each core

Outer Sheath
MDPE (Medium Density Polyethylene) (DMP5)

Outer Sheath Colour
● Light Grey

Lay Up
Triplex formation around an Aluminium Messenger Wire

STANDARDS

IEC 60502-2, HD 620, ENEL TABLE DC 4390

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

ELAND PART NUMBER	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA CORES + MESSENGER mm²	NOMINAL CONDUCTOR DIAMETER mm	MINIMUM INSULATION THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km	MINIMUM BENDING RADIUS mm
B4C20KV03035	3	35 + 50Y	7.1	4.3	54	1600	500
B4C20KV03050	3	50 + 50Y	8.2	4.3	56	1800	530
B4C20KV03095	3	95 + 50Y	11.4	4.3	63	2400	600
B4C20KV03150	3	150 + 50Y	14.2	4.3	69	3100	660

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	CURRENT CARRYING CAPACITY A
35 + 50Y	0.868	140
50 + 50Y	0.641	170
95 + 50Y	0.320	255
150 + 50Y	0.206	340

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