



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

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 NUMBER	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA CORES + MESSENGER mm ²	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 mm ²	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

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.