ENW 19/33 (36)kV Single Core Aluminium Cable

APPLICATION

Medium voltage DNO aluminium power cable approved to Electricity North West (ENW) specification and manufactured by G81 suppliers for connections from existing grid to new sub-main developments.

CHARACTERISTICS

Voltage Rating (Uo/U)
19/33 (36)kV

Temperature Rating
0°C to +90°C

CONSTRUCTION

Conductor
Class 2 Stranded Aluminium Conductor

Conductor Screen
Fully bonded semi-conductive compound

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screen
Semi-conductive compound

Screen
Copper Wires and Equalising Tape

Separator
Binding tape

Sheath
MDPE (Medium-Density Polyethylene)

Sheath Colour
● Black

STANDARDS

BS 7870-4.10, ES 02-0940

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.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578

bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | ISO 45001 Occupational Health and Safety Management OHS 672066

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™.

bsi. RoHS Trusted KITEMARK™ KM 634267

RoHS

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL AREA OF METALLIC SCREEN mm²	NOMINAL OVERALL DIAMETER OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) mm²	NOMINAL WEIGHT OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) kg	MINIMUM BENDING RADIUS mm	MAXIMUM PULLING TENSION N
D410120BK000	1	500	35	58	3230	1060	15000
D410121BK000	1	630	35	59	3670	1140	18900
D410130BK000	1	800	35	65	4460	1220	24000

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	MAXIMUM AC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	REACTANCE AT 50HZ ohms/km	CAPACITANCE µf/km	1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR kA	1 SECOND SHORT CIRCUIT RATING OF METALLIC SCREEN kA
500	0.0605	0.08	0.105	0.32	47.2	5
630	0.0469	0.063	0.103	033	59.5	5
800	0.0367	0.051	0.098	0.37	75.5	5

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm²	DIRECT BURIED Amps	IN DUCTS Amps	IN AIR Amps
500	543	498	831
630	610	560	945
800	684	629	1093

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.

UK T 020 7241 8787 | F 020 7241 8700 | sales@elandcables.com | www.elandcables.com
International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com