ELAND® CABLES

NGED 19/33 (36)kV Single Core Unarmoured Copper Conductor

APPLICATION

Medium voltage DNO copper power cable approved to National Grid Energy Distribution (NGED) 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

Minimum Bending Radius
20x Overall Diameter

CONSTRUCTION

Conductor
Class 2 Stranded Copper Conductor

Conductor Screen
Fully bonded semi-conductive compound

Insulation
XLPE (Cross-Linked Polyethylene)

Insulation Screen
Semi-condctive compound (Bonded)

Longitudinal Waterblock
Semi-Conductive Waterblocking Tape

Screen
Copper Wires and Equalising Copper Tape

Longitudinal Waterblock
Waterblocking Tape

Sheath
MDPE (Medium Density Polyethylene)

Sheath Colour

● Black

STANDARDS

BS 7870-4.10, WPD EE82/3, IEC 60228

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.

ISO/IEC 17025 Accredited Testing Laboratory — UKAS TESTING

IECEE CBTL Accredited Testing Laboratory

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

SCIENCE BASED TARGETS — BUSINESS AMBITION FOR 1.5°C

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®.

RoHS — REACH

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL AREA OF METALLIC SCREEN mm²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL INSULATION THICKNESS mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
D041116BK000	1	185	35	15.9	8.0	2.20	42.6	3160
D041118BK000	1	300	35	20.6	8.0	2.40	47.6	4510
D041119BK000	1	400	35	23.3	8.0	2.50	50.4	5500
D041121BK000	1	630	35	30.2	8.0	2.70	57.8	8070
D041122BK000	1	800	35	35.0	8.0	2.80	63.0	9780

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	REACTANCE ohms/km	CAPACITANCE µf/km	CURRENT CARRYING CAPACITY	
				DIRECT BURIED - WINTER Amps	DIRECT BURIED - SUMMER Amps
185	0.0991	0.121	0.211	476	402
300	0.0601	0.112	0.253	620	524
400	0.047	0.108	0.276	694	586
630	0.0283	0.100	0.338	839	709
800	0.0221	0.096	0.380	922	780

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