



NPG 19/33 (36)kV Single Core Unarmoured Copper Conductors



APPLICATION

Medium voltage DNO copper power cable approved to Northern Powergrid (NPG) specification and manufactured by G81 suppliers for connections from existing grid to new sub-main developments.

CHARACTERISTICS

Voltage Rating (U₀/U)
19/33 (36)kV

Temperature Rating
0°C to +90°C

CONSTRUCTION

Conductor

Class 2 Stranded Copper

Conductor Screen

Fully bonded semi-conductive compound

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductive compound (fully bonded)

Longitudinal Waterblock

Semi-conductive swellable tape

Screen

Copper Wires and Equalising Tape

Longitudinal Waterblock

Semi-conductive swellable tape

Sheath

MDPE (Medium-Density Polyethylene)

Sheath Colour

● Black

STANDARDS

BS 7870-4.10, G-126833, NPS/002/021 v5



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 NO.	NO. OF CORES	NOMINAL CROSS-SEC AREA mm ²	NOMINAL AREA METALLIC SCREEN mm ²	NOMINAL INSULATION THICKNESS mm	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm ²	NOMINAL WEIGHT kg/km	MINIMUM BENDING RADIUS m	MAXIMUM PULLING TENSION kN
D310120BK000	1	500	35	8.0	44.0	2.6	53.5	6190	1.07	20
D310121BK000	1	630	35	8.0	47.9	2.7	57.6	7570	1.15	20
D310130BK000	1	800	35	8.0	52.9	2.8	64.8	9470	1.3	20

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR kA 1 sec (90°C to 250°C)	1 SECOND SHORT CIRCUIT RATING OF METALLIC SCREEN kA 1sec (200°C)	CURRENT CARRYING CAPACITY A		
				In ground - flat	In ground - trefoil	In Air
500	0.0605	71.5	4.5	758	682	994
630	0.0469	59.5	5	850	765	1137
800	0.0367	75.5	5	881	940	1285

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.