



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



APPLICATION

Medium voltage DNO copper power cable approved to Western Power Distribution (WPD) 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

Conductor Screen

Fully bonded semi-conductive compound

Insulation

EPR (Ethylene Propylene Rubber)

Insulation Screen

Semi-conductive compound

Screen

Copper Wires and Equalising Copper Tape

Separator

Binding tape

Sheath

MDPE (Medium Density Polyethylene)

Sheath Colour

● Black

STANDARDS

BS 7870-4.10, ES 02-0940



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 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 NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL AREA OF METALLIC SCREEN mm ²	NOMINAL OVERALL DIAMETER OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) mm ²	NOMINAL WEIGHT OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) kg	MINIMUM BENDING RADIUS mm	MAXIMUM PULLING TENSION N
D040116BK000	1	185	35	42.5	3000	780	9100
D040118BK000	1	300	35	51.0	4200	930	14710
D040119BK000	1	400	35	57.5	6200	1050	19610
D040121BK000	1	630	35	60.0	7600	1100	30890

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	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
185	0.099	0.127	0.121	0.259	26.5	4.9
300	0.060	0.079	0.112	0.306	42.9	4.9
400	0.047	0.062	0.108	0.34	57.2	4.9
630	0.028	0.040	0.101	0.432	90.1	4.9

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	DIRECT BURIED Amps	IN DUCTS Amps	IN AIR Amps
185	440	405	530
300	570	515	715
400	650	580	830
630	825	725	1105

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.