



# UKPN 19/33 (36)kV Single Core Unarmoured Aluminium Conductors



## APPLICATION

Medium voltage DNO aluminium power cable approved to UK Power Networks (UKPN) specification and manufactured by G81 suppliers for connections from existing grid to new sub-main developments.

## CHARACTERISTICS

**Voltage Rating** (U<sub>0</sub>/U)  
19/33 (36)kV

**Temperature Rating**  
0°C to +90°C

## CONSTRUCTION

### Conductor

Stranded or Solid Aluminium Conductor

### Conductor Screen

Fully bonded semi-conductive compound

### Insulation

XLPE (Cross-Linked Polyethylene)

### Insulation Screen

Semi-conductive compound

### Screen

Aluminium Wires

### Separator

Water Swellable Tape in Open Helix

### Sheath

MDPE (Medium Density Polyethylene)

### Sheath Colour

● Black

## STANDARDS

BS 7870-4.10



## THE CABLE LAB<sup>®</sup>

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](http://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<sup>®</sup> as meeting the requirements of the BSI RoHS Trusted Kitemark<sup>™</sup>.





## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL AREA OF METALLIC SCREEN mm <sup>2</sup>	NOMINAL OVERALL DIAMETER OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) mm <sup>2</sup>	NOMINAL WEIGHT OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) kg	MINIMUM BENDING RADIUS mm	MAXIMUM PULLING TENSION N
D120118BK000	1	300	82	46.5	2060	940	9000
D120120BK000	1	500	82	53.5	2820	1100	15000
D120121BK000	1	630	82	57.5	3610	1120	18900

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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
300	0.1000	0.129	0.114	0.25	28.3	8.3
500	0.0605	0.0796	0.106	0.33	47.2	8.3
630	0.0469	0.0628	0.102	0.34	59.5	8.3

## CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	DIRECT BURIED Amps	IN DUCTS Amps	IN AIR Amps
300	475	380	580
500	610	488	790
630	690	552	920

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.