

# 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 (Uo/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

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.



## 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 mm²	NOMINAL AREA OF METALLIC SCREEN mm²	NOMINAL OVERALL DIAMETER (OR TRIPLEX GROUP IF APPLICABLE) mm²	NOMINAL WEIGHT (OR TRIPLEX GROUP IF APPLICABLE) kg/km	MINIMUM BENDING RADIUS mm	MAXIMUM PULLING TENSION N
D310120BK000	1	500	35	58	6200	1070	24510
D310121BK000	1	630	35	59	7600	1100	30890
D310130BK000	1	800	35	65	9400	1210	39228

## **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.