



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



## APPLICATION

Medium voltage DNO aluminium power cable approved to Scottish & Southern Electricity (SSE) specification and manufactured by G81 suppliers for connections from existing grid to new sub-main developments.

## CHARACTERISTICS

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

**Temperature Rating**  
0°C to +90°C

## CONSTRUCTION

### Conductor

Class 2 Stranded Aluminium Conductor

### Conductor Screen

Fully bonded semi-conductive compound

### Insulation

XLPE (Cross-Linked Polyethylene)

### 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, IEC 60502-1



## 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.



8578



FS 672069



EMS 672067



OHS 672066

## 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™.



KM 634267





## 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
D210118BK000	1	300	35	47	2250	940	9000
D210119BK000	1	400	35	50	2259	1000	12000
D210120BK000	1	500	35	53	3010	1060	15000
D210121BK000	1	630	35	57	3570	1140	18900
D210130BK000	1	800	35	61	4060	1220	24000

## 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	0.113	0.26	27.6	4.8
400	0.0778	0.101	0.109	0.29	36.8	4.8
500	0.0605	0.0797	0.104	0.32	46	4.8
630	0.0459	0.063	0.100	0.350	57.9	4.8
800	0.0367	0.0509	0.095	0.400	73.6	4.8

## CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	DIRECT BURIED Amps	IN DUCTS Amps	IN AIR Amps
300	532	460	600
400	606	520	700
500	679	570	820
630	768	650	940
800	857	770	1070

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.