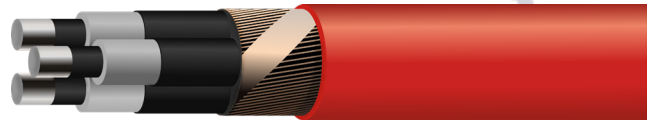
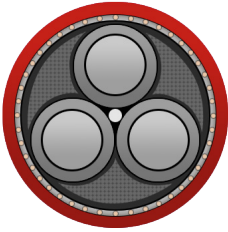


## SPEN 11KV 3 CORE ALUMINIUM CONDUCTORS



### APPLICATION

SPEN approved medium voltage aluminium power cable for connections from electrical grid to sub-main developments. Suitable for power networks, underground, outdoors and installation in cable ducting.

### CABLE STANDARDS

BS7870 4.20  
 BS EN 60228  
 UV STABILISED  
 DNO Cable approved for SPEN use

### CONSTRUCTION

- Conductor**  
Class 1 Solid Aluminium Conductor
- Conductor Screen**  
Fully bonded semi-conductive compound
- Insulation**  
XLPE (Cross-Linked Polyethylene)
- Insulation Screen**  
Semi-conductive compound
- Screen**  
Copper Wires & helical Equalising Copper Tape
- Separator**  
Binding tape helically applied
- Sheath**  
MDPE (Medium-Density Polyethylene)
- Sheath Colour:** ■ Red

### CHARACTERISTICS

- Voltage Rating:** 6350V / 11000V (11kV)
- Temperature Limits:** 0°C to +90°C
- Minimum Bending Radius:** As per cable manufacturer datasheet

### CORE IDENTIFICATION

**Single Core:** ■ Brown ■ Black ■ Grey Tapes  
**Triplex**

Should not be installed at temperatures below 0°C

## SPEN 11KV 3 CORE ALUMINIUM CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	NUMBER OF CORES	NOMINAL AREA OF METALLIC SCREEN	MAXIMUM VOLTAGE RATING	WEIGHT (KG/KM)	APPROX OVERALL DIAMETER
SPEN11KVMDPE3X95AL	95	3	70	11KV	3250	55
SPEN11KVMDPE3X185AL	185	3	95	11KV	4880	65
SPEN11KVMDPE3X300AL	300	3	95	11KV	6580	75

## SPEN 11KV 3 CORE ALUMINIUM CABLE – 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 90°C OHMS/KM	REACTANCE AT 50HZ OHMS/KM	CAPACITANCE (MF/KM)	1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR KA	1 SECOND SHORT CIRCUIT RATING OF METALLIC SCREEN KA
95	0.320	0.411	0.120	0.32	8.9	9.3
185	0.164	0.211	0.110	0.41	17.4	12.8
300	0.100	0.130	0.130	0.50	28.3	12.8

## SPEN 11KV 3 CORE ALUMINIUM CABLE – CURRENT CARRYING CAPACITY

MAX VOLTAGE RATING	MUTUAL CAPACITANCE pF/m			
	NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	IN GROUND AMPS SEE NOTE 1*	IN DUCTS AMPS SEE NOTE 2**	IN AIR AMPS SEE NOTE 3***
11KV	95	228	197	245
11KV	185	330	289	369
11kv	300	431	381	494

NOTE 1\* GROUND TEMPERATURE = 20°C, DEPTH = 0.8M, THERMAL RESISTIVITY OF SOIL -1.2K.M/W

NOTE 2\*\* AS NOTE 1\* BUT 1 CABLE PER DUCT

NOTE 3\*\*\* AMBIENT TEMPERATURE = 30°C

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.