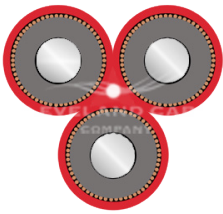


UK POWER NETWORKS APPROVED TRIPLEX CABLE 11KV



APPLICATION

UKPN 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 4.10
 BS EN 60228
 UV STABILISED
 DNO Cable approved for UKPN use

CONSTRUCTION

Conductor: Solid Aluminium Conductors
Insulation: Cross Link Polyethylene (XLPE)
Metallic Screen: Aluminium Wires
Water Blocking: Tape, Helically applied
Sheath: Medium Density Polyethylene (MDPE)
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

11KV TRIPLEX CABLE FOR UKPN - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	CONDUCTOR TYPE	NOMINAL DIAMETER (MM)	MAXIMUM VOLTAGE RATING	WEIGHT (KG/KM)	APPROX OVERALL DIAMETER
UKPN11KVTRIP3X95AL	95	SOLID	12.16	11KV	2901	57.83
UKPN11KVTRIP3X185AL	185	SOLID	15.8	11KV	4060	72.5
UKPN11KVTRIP3X300AL	300	SOLID	20.5	11KV	5360	81.4

11KV TRIPLEX CABLE FOR UKPN – ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA (MM ²)	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	0.320	8.9	5.3
185	0.164	0.211	0.110	0.410	17.4	10.30
300	0.100	0.130	0.130	0.500	28.3	10.30

11KV TRIPLEX CABLE FOR UKPN – CURRENT CARRYING CAPACITY

MAX VOLTAGE RATING	MUTUAL CAPACITANCE pF/m			
	NOMINAL CROSS SECTIONAL AREA (MM ²)	IN GROUND AMPS SEE NOTE 1*	IN DUCTS AMPS SEE NOTE 2**	IN AIR AMPS SEE NOTE 3***
11kV	95	221	230	280
11kV	185	317	303	424
11kv	300	437	397	577

NOTE 1* GROUND TEMPERATURE = 20°C, DEPTH = 0.8M, THERMAL RESISTIVITY OF SOIL -1.5K.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.