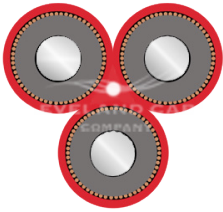


## NORTHERN POWERGRID APPROVED TRIPLEX CABLE 11KV



### APPLICATION

NPG 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 NPG use

### CONSTRUCTION

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

### CHARACTERISTICS

**Voltage Rating:** 6350V / 11000V (12kV)  
**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

## TRIPLEX CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	CONDUCTOR TYPE	NOMINAL DIAMETER (MM)	MAXIMUM VOLTAGE RATING	WEIGHT (KG/KM)	APPROX OVERALL DIAMETER
NPG11KVTRIP3X95AL	95	SOLID	12.16	11KV	2960	57.83
NPG11KVTRIP3X185AL	185	SOLID	15.8	11KV	4020	72.5
NPG11KVTRIP3X300AL	300	SOLID	20.5	11KV	5310	81.4

## TRIPLEX CABLE 11KV – 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	0.320	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

## TRIPLEX 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	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.