

## Northern Powergrid Approved Triplex Cable - 11kV, XLPE, MDPE - 95mm-300mm



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.

### Key Features



**Voltage Rating**  
6350V / 11000V (11kV)



**Minimum Bending Radius**  
As Per Manufacturers Datasheet



**Temperature Limits**  
Ambient Temperature: 0°C to +90°C

### Construction

- **Conductor:** Solid Aluminium Conductors
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Metallic Screen:** Copper Wires plus Copper tape
- **Sheath:** Medium Density Polyethylene (MDPE)
- **Longitudinal Water Blocking:** Tape, Helically applied
- **Sheath Colour:** Red

### Standards

- BS7870 4.10, BS EN 60228, UV Stabilised, DNO Cable approved for NPG Use

### Core Colours

#### Single Core Triplex

Brown

Black

Grey

Tapes

# Northern Powergrid Approved Triplex Cable - 11kV, XLPE, MDPE - 95mm-300mm - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Nominal Diameter	Conductor Type	Max Voltage Rating	Overall Diameter(mm)	Weight(Kg/Km)
NPG11KVTRI P3X95AL	95	3	12.16	SOLID	11KV	57.83	2960
NPG11KVTRI P3X185AL	185	3	15.8	SOLID	11KV	72.5	4020
NPG11KVTRI P3X300AL	300	3	20.5	SOLID	11KV	81.4	5310

TRIPLEX CABLE – CURRENT CARRYING CAPACITY

MAX VOLTAGE RATING	NOMINAL CROSS SECTIONAL AREA (MM²)	IN GROUND AMPS	IN DUCTS AMPS	IN AIR AMPS
		SEE NOTE 1*	SEE NOTE 2**	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

TRIPLEX CABLE 11KV – ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C	MAXIMUM AC RESISTANCE OF CONDUCTOR AT 90°C	REACTANCE AT 50HZ	CAPACITANCE	1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR	1 SECOND SHORT CIRCUIT RATING OF METALLIC SCREEN
(MM²)	(OHMS/KM)	(OHMS/KM)	(OHMS/KM)	(µF/KM)	(kA)	(kA)
95	0.32	0.411	0.12	0.32	8.9	5.3
185	0.164	0.211	0.11	0.41	17.4	10.3
300	0.1	0.13	0.13	0.5	28.3	10.3

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