UK Power Network Approved Aluminium Triplex Cable (UKPN) - 11kV, AL XLPE, MDPE - 95mm² to 185mm²



Description

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.

Key Features

Voltage Rating
6.35kV / 11kV (12kV)

Minimum Bending Radius
12 x Overall Diameter

Temperature Limits
Temperature Range: 0°C to +90°C

Core Colours

Single Core Triplex

Brown | Black | Grey Tapes

Standards

- DNO Cable approved for UKPN use
- IEC 60502-2
- BS EN/IEC 60228

Construction

- **Conductor**: Either Solid Aluminium (SAC) or class 2 stranded conductors
- **Conductor Screen**: Bonded semi conductive material
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Insulation Screen**: Semi conducting compound
- **Metallic Screen**: Aluminium Wires
- **Longditudinal Water Blocking**: Tape, Helically applied
- **Sheath**: Medium Density Polyethylene (MDPE)
- **Sheath Colour**: Red: UV Stabilised

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory
UKAS TESTING 31196

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

CLEVELAND CABLE COMPANY

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

UK Power Network Approved Aluminium Triplex Cable (UKPN) - 11kV, AL XLPE, MDPE - 95mm² to 185mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Nominal Diameter	Conductor Type	Max Voltage Rating	Overall Diameter(mm)	Weight(Kg/Km)
UKPN11KVTRIP3X 95AL	95	3	12.16	SOLID	11KV	57.83	2901
UKPN11KVTRIP3X 185AL	185	3	15.8	SOLID	11KV	72.5	4060
UKPN11KVTRIP3X 300AL	300	3	20.5	SOLID	11KV	81.4	5360

TRIPLEX CABLE – CURRENT CARRYING CAPACITY

MAX VOLTAGE RATING	NOMINAL CROSS SECTIONAL AREA (MM^2)	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

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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
(MM^2)	(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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