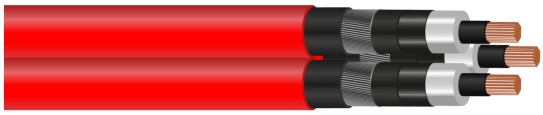
National Grid Approved Copper Triplex Cable (NGED) - 11kV, XLPE, MDPE - 185mm² to 300mm²



Description

NGED Approved Copper MDPE Triplex 6.35/11 (12)kV cable is a medium voltage utility power line constructed with Class 2 rigid stranded circular compacted plain copper conductors, cross-linked polyethylene (XLPE) insulation, a metal screen of concentric copper wires with helical tape, and a robust red medium density polyethylene (MDPE) outer sheath twisted together in a triplex formation. This highly durable cable is purpose-built for installation in the National Grid Electricity Distribution network (NGED), making it ideal for utility power distribution, substation connections, renewable energy infrastructure, and underground direct burial or ducting systems.

The Cables are manufactured to BS 7870-4.10 for distribution network operator polymeric insulated cables, alongside material quality benchmarks BS EN/IEC 60228 for rigid conductor properties and G81 approval for new utility connections. Featuring a standard rated voltage of 6.35/11kV, this cable provides dependable, safe power distribution across the electrical grid while meeting all UK power distribution network standards.

The cable should be installed with a minimum bending radius of 12 times the overall cable diameter during handling and routing. It is designed to operate within a core temperature range of 0°C to +90°C.

Key Features

Voltage Rating
6.35kV / 11kV (12kV)

Minimum Bending Radius
15 x Overall Diameter

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

Core Colours

Single Core Triplex

Brown | Black | Grey Tapes

Standards

- IEC 60502-02
- DNO Cable approved for NGED use

Construction

- **Conductor**: Class 2 Copper Conductor
- **Conductor Screen**: Semi-Conductive material
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Insulation Screen**: Semi conducting compound
- **Water Blocking**: Semi-Conductive Water Blocking Tape
- **Metallic Screen**: Aluminium Wires
- **Water Blocking**: Non Conductive Water Blocking Tape
- **Outer Sheath**: Polyethylene (PE)
- **Sheath Colour**: Red

QA Lab

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. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.

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.

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

National Grid Approved Copper Triplex Cable (NGED) - 11kV, XLPE, MDPE - 185mm² to 300mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Minimum Bending Radius	Overall Diameter(mm)	Weight(Kg/Km)
NGED11KVTRIP3X185CU	185	3	1095	73.0	7120
NGED11KVTRIP3X300CU	300	3	1260	84.0	10600

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