

# 11kV Medium Voltage Power Cable

This XLPE insulated MV armored power cable is designed for medium voltage power transmission and distribution. It features stranded conductors, semi-conductor screens and various sheathing options.



## ADDITIONAL IMAGES



## Overview

### High-Performance Medium Voltage Power Solution

This 11kV medium voltage power cable is engineered for reliable power transmission and distribution in systems up to 35kV. Designed for versatility, it is suitable for underground, outdoor, and ducting installations across industries such as mining, metallurgy, and petrochemicals. Its robust XLPE insulation and armored construction provide a durable alternative to traditional oil-immersed or PVC-insulated cables.

## Technical Highlights

### Key Performance Metrics

**11 kV**

Rated Voltage

**90 °C**

Max Operating Temp

**250 °C**

Short Circuit Temp

## Construction

### Armoring

- Single Core: Aluminum Wire Armored (AWA)
- Multi-Core: Steel Wire Armored (SWA)

### Internal Layering

- Semi-conducting material screens
- Individual and overall copper tape metallic screen
- PET fiber fillers
- PVC Type TM1 bedding and sheath

### Sheath Colors

Red • Black

### Conductor

Class 2 stranded plain copper conductor to BS EN 60228

### Insulation

XLPE (Cross-Linked Polyethylene) Type GP8

## Compliance & Standards

### Manufacturing Standards

BS6622, BS EN/IEC 60228, IEC60502, BS7655

## Operational Parameters

### Supported Voltage Ratings (Uo/U)

- 3.6/6kV
- 6/10kV (11kV)
- 12/20kV (24kV)
- 19/33kV
- 26/35kV (35kV)

### Electrical Testing

Test Type	Requirement
Working Frequency Voltage Test	3.5Uo/5min without puncture
Partial Discharge Test	d 1pC under 1.73Uo
Max Short-Circuit Duration	5 seconds

## Installation

### Installation Requirements

- Minimum environment temperature: 0°C (preheating required if lower)
- No horizontal drop limit for laying
- Minimum Bending Radius (Single Core): 15 x overall diameter