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	90 °C	250 °C
Rated Voltage	Max Operating Temp	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 10pC 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