XHIOV Medium Voltage Copper Power Cable to Portuguese Standards



Description

The XHIOV cable is a single-core or three-core medium voltage power cable manufactured in accordance with IEC 60502-2 and IEC 60228, following Portuguese standard designations. The cable construction comprises a Class 2 stranded copper conductor, semi-conductive conductor and insulation screens, cross-linked polyethylene (XLPE) insulation, a copper wire metallic screen, and a polyvinyl chloride (PVC) outer sheath. These medium voltage cables are available across a full range of rated voltages: 3.6/6 kV, 6/10 kV, 8.7/15 kV, 12/20 kV, and 18/30 kV.

This cable is engineered for industrial power supply and distribution within power stations and substations. It is built to withstand fixed temperature limits ranging from -20°C to +90°C. The robust PVC outer sheathing provides reliable ultraviolet (UV) radiation resistance for outdoor exposure and possesses flame-retardant properties compliant with BS EN/IEC 60332-1-2. Water-blocking variants are also available to provide a secure barrier against moisture ingress in damp environments.

Designed for versatile deployment, XHIOV is ideal for fixed internal or external installations. It can be routed in open air on cable trays, laid underground in cable ducting, or directly buried in free-draining soil. During installation, the cable requires a minimum bending radius of 15 times the overall diameter to maintain structural integrity.

The cable is available with Aluminium conductor in the LXHIOV range of cables.

Key Features

Voltage Rating
1.8/3 (3.6)kV
6/11 (12)kV
12/20 (24)kV
18/30 (36)kV

Minimum Bending Radius
15 x Overall Diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Temperature Range:-20°C to +90°C

Standards

- IEC 60502-02
- IEC 60228
- IEC 60332-1-2

Construction

- **Conductor**: Class 2 stranded copper conductor
- **Conductor Screen**: Semi conductive XLPE
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Insulation Screen**: Semi conductive XLPE
- **Metallic Screen**: Copper Wire Screen
- **Outer Sheath**: Polyvinyl Chloride (PVC)

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
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

XHIOV Medium Voltage Copper Power Cable to Portuguese Standards - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Minimum Bending Radius	Overall Diameter(mm)	Weight(Kg/Km)	Voltage
XHIOV6KV1X25	25	1	300	20.0	660	3.6/6kV
XHIOV6KV3X25	25	3	600	40.0	2400	3.6/6kV
XHIOV6KV1X35	35	1	323	21.5	780	3.6/6kV
XHIOV6KV3X35	35	3	645	43.0	2785	3.6/6kV
XHIOV6KV1X50	50	1	345	23.0	920	3.6/6kV
XHIOV6KV3X50	50	3	675	45.0	3280	3.6/6kV
XHIOV6KV1X70	70	1	375	25.0	1135	3.6/6kV
XHIOV6KV3X70	70	3	750	50.0	4095	3.6/6kV
XHIOV6KV1X95	95	1	398	26.5	1400	3.6/6kV
XHIOV6KV3X95	95	3	795	53.0	5015	3.6/6kV
XHIOV6KV1X120	120	1	420	28.0	1680	3.6/6kV
XHIOV6KV3X120	120	3	855	57.0	5925	3.6/6kV
XHIOV6KV1X150	150	1	443	29.5	1950	3.6/6kV
XHIOV6KV3X150	150	3	900	60.0	6840	3.6/6kV
XHIOV6KV1X185	185	1	465	31.0	2320	3.6/6kV
XHIOV6KV3X185	185	3	938	62.5	8075	3.6/6kV
XHIOV6KV1X240	240	1	518	34.5	3000	3.6/6kV
XHIOV6KV3X240	240	3	1050	70.0	10200	3.6/6kV
XHIOV6KV1X300	300	1	563	37.5	3575	3.6/6kV
XHIOV6KV3X300	300	3	1155	77.0	12510	3.6/6kV
XHIOV6KV1X400	400	1	615	41.0	4520	3.6/6kV
XHIOV6KV3X400	400	3	1275	85.0	15840	3.6/6kV
XHIOV6KV1X500	500	1	660	44.0	5495	3.6/6kV
XHIOV6KV1X630	630	1	720	48.0	7130	3.6/6kV

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