

LXHIOV Cable



Description

The LXHIOV 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 aluminium 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, LXHIOV 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 copper conductor in the XHIOV range of cables.

Key Features



Voltage Rating

3.6/6 (7.2)kV
6.35/11 (12)kV
8.7/15 (17.5)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 60502-2
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228

Construction

- **Conductor:** Class 2 Stranded Aluminium 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)

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



LXHIOV Cable - Dimensions

Reference	Conductor Size (mm ²)	No Of Cores	Minimum Bending Radius	Overall Diameter(mm)	Weight(Kg/Km)
LXHIOV6KV1X25	25	1	300	20.0	510
LXHIOV6KV3X25	25	3	600	40	1940
LXHIOV6KV1X35	31	5	315	21.0	560
LXHIOV6KV3X35	35	3	630	42.0	1945
LXHIOV6KV1X50	50	1	330	22.0	620
LXHIOV6KV3X50	50	3	675	45.0	2410
LXHIOV6KV1X70	70	1	360	24.0	710
LXHIOV6KV3X70	70	3	720	48.0	2795
LXHIOV6KV1X95	95	1	390	26.0	835
LXHIOV6KV3X95	95	3	780	52.0	3285
LXHIOV6KV1X120	120	1	420	28.0	960
LXHIOV6KV3X120	120	3	855	57.0	3740
LXHIOV6KV1X150	150	1	443	29.5	1060
LXHIOV6KV3X150	150	3	900	60.0	4185
LXHIOV6KV1X185	185	1	465	31.0	1240
LXHIOV6KV3X185	185	3	945	63.0	4740
LXHIOV6KV1X240	240	1	510	34.0	1440
LXHIOV6KV3X240	240	3	1035	69.0	5765
LXHIOV6KV1X300	300	1	555	37.0	1715
LXHIOV6KV3X300	300	3	1140	76.0	6875
LXHIOV6KV1X400	400	1	600	40.0	2070
LXHIOV6KV3X400	400	3	1260	84.0	8400
LXHIOV6KV1X500	500	1	660	44.0	2460
LXHIOV6KV1X630	630	1	735	49.0	3050

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