

LXHIORV Cable



Description

The LXHIORV cable range, supplied by Cleveland Cable Company, comprises armoured medium-voltage power cables primarily designed to meet Portuguese utility distribution grid designs. Manufactured in compliance with international standard IEC 60502-2, IEC 60228, and European reference framework HD 620, these cables cover operational voltage ranges from 3.6/6kV up to 18/30kV. The multi-core construction features a Class 2 stranded aluminium conductor layered with semi-conductive XLPE screens, cross-linked polyethylene (XLPE) insulation, and a high-performance copper wire metallic screen. An inner PVC layer holds a heavy-duty Steel Wire Armour (SWA) mechanical shield, which is enclosed by a robust, flame-retardant black PVC outer sheath.

Engineered for dependable use in heavy-duty utility and industrial sectors, this cable is designed for environments subject to elevated risks of mechanical damage, impact, or external crushing. The integrated SWA layer delivers superior mechanical protection without creating inductive heating in single-core AC installations. The durable, UV-resistant, and flame-retardant PVC jacket performs reliably under continuous maximum conductor operating temperatures of +90°C and peak short-circuit levels up to +250°C, making it suitable for both internal power networks and tough external utility lines.

For general installation, these cables are highly versatile and suitable for direct burial in deep trenches within free-draining soils, as well as pulling through underground plastic ducts and conduits. They are also widely deployed above ground for fixed routing on open-air utility structures, external building walls, and industrial indoor or outdoor cable trays. A Single core, AWA version of this cable (LXHIO1RV) is also available.

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

Fixed: 10 x Overall Diameter
Flexing: 15 x Overall Diameter



Flame Retardancy

BS EN/IEC 60332-1-2
BS EN/IEC 60332-3-24



Temperature Limits

Conductor Maximum Operating Temperature: +90°C
Maximum Short Circuit Temperature: +250°C

Standards

- BS EN/IEC 60332-3-24
- BS EN/IEC 60228
- BS EN/IEC 60332-1-2
- IEC 60502-2

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
- **Tape:** Plastic tape
- **Filler:** Extruded Polymeric Material
- **Bedding:** Polyvinyl Chloride (PVC)
- **Armour:** Galvanised Steel Wire Armour (SWA)
- **Outer Sheath:** Polyvinyl Chloride (PVC)
- **Sheath Colour:** Black

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



LXHIORV Cable - Dimensions

Reference	Conductor Size (mm ²)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
LXHIORV6KV3X25	25	3	44.00	3320
LXHIORV12KV3X25	25	3	49.00	3320
LXHIORV17/5KV3X25	25	3	54.00	3860
LXHIORV6KV3X35	35	3	46.50	3775
LXHIORV12KV3X35	35	3	51.50	3625
LXHIORV17/5KV3X35	35	3	57.00	4200
LXHIORV24KV3X35	35	3	60.50	4680
LXHIORV6KV3X50	50	3	49.50	4330
LXHIORV12KV3X50	50	3	53.50	3950
LXHIORV17/5KV3X50	50	3	59.00	4525
LXHIORV24KV3X50	50	3	63.50	5115
LXHIORV36KV3X50	50	3	76.00	6700
LXHIORV6KV3X70	70	3	53.00	5290
LXHIORV12KV3X70	70	3	58.00	4505
LXHIORV17/5KV3X70	70	3	63.50	5100
LXHIORV24KV3X70	70	3	68.00	5710
LXHIORV36KV3X70	70	3	80.00	7455
LXHIORV6KV3X95	95	3	57.50	6330
LXHIORV12KV3X95	95	3	62.00	5090
LXHIORV17/5KV3X95	95	3	66.50	5745
LXHIORV24KV3X95	95	3	72.00	6430
LXHIORV36KV3X95	95	3	85.00	9015
LXHIORV6KV3X120	120	3	61.00	7280
LXHIORV12KV3X120	120	3	66.00	5680
LXHIORV17/5KV3X120	120	3	71.00	6415
LXHIORV24KV3X120	120	3	76.00	7075
LXHIORV36KV3X120	120	3	89.00	9895
LXHIORV6KV3X150	150	3	64.50	8300
LXHIORV12KV3X150	150	3	69.50	6305
LXHIORV17/5KV3X150	150	3	74.00	7070
LXHIORV24KV3X150	150	3	78.50	7690
LXHIORV6KV3X185	185	3	68.00	9650
LXHIORV12KV3X185	185	3	72.00	6970
LXHIORV17/5KV3X185	185	3	77.00	7670
LXHIORV24KV3X185	185	3	82.00	8460
LXHIORV6KV3X240	240	3	74.50	11975
LXHIORV12KV3X240	240	3	77.50	8020
LXHIORV17/5KV3X240	240	3	83.00	8850

Reference	Conductor Size (mm ²)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
LXHIORV6KV3X300	300	3	81.00	14485
LXHIORV12KV3X300	300	3	84.00	9320

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CENELEC

