

## LXHIV Cable



### Description

The LXHIV cable range, supplied by Cleveland Cable Company, comprises unarmoured medium-voltage power cables primarily designed to meet Portuguese utility distribution grid designs. Manufactured in compliance with international standards IEC 60502-2 and IEC 60228, alongside European reference framework HD 620, these cables cover operational voltage ranges from 3.6/6kV up to 18/30kV. The construction features a Class 2 stranded aluminium conductor layered with semi-conductive screens, cross-linked polyethylene (XLPE) insulation, and a high-performance copper tape metallic screen, all enclosed by a robust, flame-retardant black PVC outer sheath.

Engineered for dependable use in power transmission and distribution across utility sub-stations and heavy industrial networks, these cables provide a lighter alternative to copper variants. They are ideal for applications where physical space allows for the larger overall diameter of aluminium cores. The integrated flame-retardant PVC outer sheath delivers reliable resistance to fire propagation in line with BS EN/IEC 60332-1-2 standards and performs effectively under continuous maximum conductor operating temperatures of +90°C and peak short-circuit levels up to +250°C.

For general installation, these unarmoured cables are suitable for direct burial in 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.

### 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:** Individual copper tape screen
- **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

#### ecovadis

## LXHIV Cable - Dimensions

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
LXHIV6KV1X25	25	1	20.00	505
LXHIV12KV1X25	25	1	22.00	510
LXHIV17/5KV1X25	25	1	24.00	665
LXHIV6KV3X25	25	3	39.00	1945
LXHIV12KV3X25	25	3	43.50	1930
LXHIV17/5KV3X25	25	3	49.00	2670
LXHIV6KV1X35	35	1	21.00	560
LXHIV12KV1X35	35	1	23.00	565
LXHIV17/5KV1X35	35	1	25.00	720
LXHIV24KV1X35	35	1	27.50	815
LXHIV6KV3X35	35	3	41.00	2130
LXHIV12KV3X35	35	3	46.00	2145
LXHIV17/5KV3X35	35	3	51.50	2905
LXHIV24KV3X35	35	3	56.00	3320
LXHIV6KV1X50	50	1	22.00	620
LXHIV12KV1X50	50	1	24.50	615
LXHIV17/5KV1X50	50	1	26.00	790
LXHIV24KV1X50	50	1	28.50	885
LXHIV36KV1X50	50	1	34.00	1160
LXHIV6KV3X50	50	3	44.00	2400
LXHIV12KV3X50	50	3	49.00	2400
LXHIV17/5KV3X50	50	3	54.00	3220
LXHIV24KV3X50	50	3	58.50	3655
LXHIV36KV3X50	50	3	70.00	4915
LXHIV6KV1X70	70	1	24.00	705
LXHIV12KV1X70	70	1	26.00	710
LXHIV17/5KV1X70	70	1	28.00	910
LXHIV24KV1X70	70	1	30.50	1000
LXHIV36KV1X70	70	1	36.00	1270
LXHIV6KV3X70	70	3	48.00	2790
LXHIV12KV3X70	70	3	52.50	2780
LXHIV17/5KV3X70	70	3	58.00	3665
LXHIV24KV3X70	70	3	62.50	4140
LXHIV36KV3X70	70	3	74.00	6175
LXHIV6KV1X95	95	1	25.50	830
LXHIV12KV1X95	95	1	28.00	840
LXHIV17/5KV1X95	95	1	30.00	1010
LXHIV24KV1X95	95	1	32.50	1135

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
LXHIV36KV1X95	95	1	37.00	1420
LXHIV6KV3X95	95	3	52.00	3275
LXHIV12KV3X95	95	3	56.50	3260
LXHIV17/5KV3X95	95	3	61.00	4210
LXHIV24KV3X95	95	3	66.50	4750
LXHIV36KV3X95	95	3	78.00	6170
LXHIV6KV1X120	120	1	27.50	950
LXHIV12KV1X120	120	1	29.50	950
LXHIV17/5KV1X120	120	1	32.00	1155
LXHIV24KV1X120	120	1	34.00	1275
LXHIV36KV1X120	120	1	39.50	1580
LXHIV6KV3X120	120	3	56.00	3730
LXHIV12KV3X120	120	3	60.50	3735
LXHIV17/5KV3X120	120	3	65.50	4730
LXHIV24KV3X120	120	3	70.50	5290
LXHIV36KV3X120	120	3	82.00	6860
LXHIV6KV1X150	150	1	28.50	1055
LXHIV12KV1X150	150	1	21.00	1055
LXHIV17/5KV1X150	150	1	33.50	1275
LXHIV24KV1X150	150	1	35.00	1405
LXHIV36KV1X150	150	1	41.00	1730
LXHIV6KV3X150	150	3	59.00	4160
LXHIV12KV3X150	150	3	63.00	4170
LXHIV17/5KV3X150	150	3	68.00	5280
LXHIV24KV1X150	150	3	73.50	5805
LXHIV36KV3X150	150	3	85.00	7385
LXHIV6KV1X185	185	1	30.00	1205
LXHIV12KV1X185	185	1	32.50	1200
LXHIV17/5KV1X185	185	1	35.00	1440
LXHIV24KV1X185	185	1	37.00	1575
LXHIV36KV1X185	185	1	42.50	1890
LXHIV6KV3X185	185	3	62.50	4720
LXHIV12KV3X185	185	3	67.50	4720
LXHIV17/5KV3X185	185	3	72.00	5845
LXHIV24KV3X185	185	3	76.50	6450
LXHIV36KV3X185	185	3	89.00	8150
LXHIV6KV1X240	240	1	33.50	1425
LXHIV12KV1X240	240	1	34.50	1425
LXHIV17/5KV1X240	240	1	37.50	1655



31196



CENELEC



Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
LXHIV24KV1X240	240	1	39.00	1780
LXHIV36KV1X240	240	1	45.00	2140
LXHIV6KV3X240	240	3	68.50	5750
LXHIV12KV3X240	240	3	72.00	5760
LXHIV17/5KV3X240	240	3	77.50	6825
LXHIV24KV3X240	240	3	82.00	7500
LXHIV36KV3X240	240	3	94.00	9205
LXHIV6KV1X300	300	1	37.00	1690
LXHIV12KV1X300	300	1	37.50	1675
LXHIV17/5KV1X300	300	1	40.50	1915
LXHIV24KV1X300	300	1	42.00	2055
LXHIV36KV1X300	300	1	48.00	2465
LXHIV6KV3X300	300	3	76.00	6880
LXHIV12KV3X300	300	3	78.50	6870
LXHIV17/5KV3X300	300	3	84.00	7960
LXHIV24KV3X300	300	3	88.50	8655
LXHIV36KV3X300	300	3	101.00	10510
LXHIV6KV1X400	400	1	40.00	2045
LXHIV12KV1X400	400	1	41.00	2050
LXHIV17/5KV1X400	400	1	43.00	2270
LXHIV24KV1X400	400	1	45.00	2420
LXHIV36KV1X400	400	1	51.00	2845
LXHIV6KV3X400	400	3	83.00	8400
LXHIV12KV3X400	400	3	85.00	8405
LXHIV17/5KV3X400	400	3	90.50	9400
LXHIV24KV3X400	400	3	95.00	10180
LXHIV36KV3X400	400	3	107.50	12135
LXHIV6KV1X500	500	1	43.50	2460
LXHIV12KV1X500	500	1	45.00	2450
LXHIV17/5KV1X500	500	1	46.50	2670
LXHIV24KV1X500	500	1	48.50	2835
LXHIV36KV1X500	500	1	54.50	3285
LXHIV6KV1X630	630	1	48.50	3050
LXHIV12KV1X630	630	1	49.00	3055
LXHIV17/5KV1X630	630	1	51.00	3240
LXHIV24KV1X630	630	1	53.50	3430
LXHIV36KV1X630	630	1	59.00	3930

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE



DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.

