LXHIO1RV Medium Voltage Aluminium Power Cable to Portuguese Standards



Description

The LXHIO1RV 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 single-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 Aluminium Wire Armour (AWA) 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 AWA 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 multi core, SWA version of this cable (LXHIORV) 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: 15 x Overall Diameter
Flexing: 20 x Overall Diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Conductor Maximum Operating Temperature: +90°C
Maximum Short Circuit Temperature: +250°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
- **Bedding**: Polyvinyl Chloride (PVC)
- **Armour**: Aluminium Wire Armour (AWA)
- **Outer Sheath**: Polyvinyl Chloride (PVC)
- **Sheath Colour**: Black

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
UKAS TESTING 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

LXHIO1RV Medium Voltage Aluminium Power Cable to Portuguese Standards - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
LXHIO1RV6KV1X25	25	1	25.00	805
LXHIO1RV12KV1X25	25	1	27.00	900
LXHIO1RV17/5KV1X25	25	1	29.50	1000
LXHIO1RV6KV1X35	35	1	26.00	875
LXHIO1RV12KV1X35	35	1	28.00	960
LXHIO1RV17/5KV1X35	35	1	30.50	1070
LXHIO1RV24KV1X35	35	1	32.50	1180
LXHIO1RV6KV1X50	50	1	27.50	955
LXHIO1RV12KV1X50	50	1	29.50	1035
LXHIO1RV17/5KV1X50	50	1	31.50	1145
LXHIO1RV24KV1X50	50	1	34.00	1280
LXHIO1RV36KV1X50	50	1	39.00	1605
LXHIO1RV6KV1X70	70	1	29.00	1040
LXHIO1RV12KV1X70	70	1	30.50	1160
LXHIO1RV17/5KV1X70	70	1	33.00	1275
LXHIO1RV24KV1X70	70	1	35.50	1405
LXHIO1RV36KV1X70	70	1	41.00	1760
LXHIO1RV6KV1X95	95	1	31.00	1170
LXHIO1RV12KV1X95	95	1	32.50	1300
LXHIO1RV17/5KV1X95	95	1	34.50	1415
LXHIO1RV24KV1X95	95	1	37.50	1575
LXHIO1RV36KV1X95	95	1	42.50	1920
LXHIO1RV6KV1X120	120	1	32.00	1310
LXHIO1RV12KV1X120	120	1	34.50	1430
LXHIO1RV17/5KV1X120	120	1	36.50	1565
LXHIO1RV24KV1X120	120	1	38.50	1735
LXHIO1RV36KV1X120	120	1	44.00	2110
LXHIO1RV6KV1X150	150	1	33.50	1450
LXHIO1RV12KV1X150	150	1	36.00	1565
LXHIO1RV17/5KV1X150	150	1	38.50	1715
LXHIO1RV24KV1X150	150	1	40.00	1885
LXHIO1RV36KV1X150	150	1	45.50	2245
LXHIO1RV6KV1X185	185	1	35.00	1595
LXHIO1RV12KV1X185	185	1	37.50	1745
LXHIO1RV17/5KV1X185	185	1	40.50	1880
LXHIO1RV24KV1X185	185	1	42.00	2040
LXHIO1RV36KV1X185	185	1	47.00	2450
LXHIO1RV6KV1X240	240	1	37.50	1870

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
LXHIO1RV12KV1X240	240	1	40.00	1985
LXHIO1RV17/5KV1X240	240	1	43.00	2150
LXHIO1RV24KV1X240	240	1	44.00	2315
LXHIO1RV36KV1X240	240	1	50.00	2785
LXHIO1RV6KV1X300	300	1	42.00	2195
LXHIO1RV12KV1X300	300	1	43.00	2270
LXHIO1RV17/5KV1X300	300	1	45.50	2440
LXHIO1RV24KV1X300	300	1	47.50	2635
LXHIO1RV36KV1X300	300	1	53.00	3130
LXHIO1RV6KV1X400	400	1	44.50	2610
LXHIO1RV12KV1X400	400	1	46.00	2660
LXHIO1RV17/5KV1X400	400	1	48.00	2860
LXHIO1RV24KV1X400	400	1	50.50	3050
LXHIO1RV36KV1X400	400	1	56.00	3590
LXHIO1RV6KV1X500	500	1	49.00	3040
LXHIO1RV12KV1X500	500	1	49.50	3075
LXHIO1RV17/5KV1X500	500	1	52.00	3315
LXHIO1RV24KV1X500	500	1	54.00	3505
LXHIO1RV36KV1X500	500	1	59.00	4015
LXHIO1RV6KV1X630	630	1	54.00	3690
LXHIO1RV12KV1X630	630	1	54.00	3745
LXHIO1RV17/5KV1X630	630	1	56.50	3940
LXHIO1RV24KV1X630	630	1	59.00	4195
LXHIO1RV36KV1X630	630	1	64.00	4760

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