

XHIV Cable



Description

XHIV cable is a medium-voltage power transmission and distribution cable featuring stranded copper conductors, cross-linked polyethylene insulation, a copper tape metallic screen, and a flame-retardant polyvinyl chloride outer sheath. It is primarily designed to meet Portuguese utility distribution grid for fixed installations in indoor or outdoor environments, and it is fully suitable for direct burial in the ground or placement inside cable ducts.

These medium-voltage cables are manufactured in strict accordance with international standards including IEC 60502-2 for power cables, IEC 60228 for conductor specifications, and HD620 standards, while also complying with RoHS and REACH environmental directives. They typically support rated voltage classifications spanning from 3.6/6kV up to 18/30kV, supporting a maximum continuous conductor operating temperature of 90 degrees Celsius and a short-circuit threshold of 250 degrees Celsius.

Basic installation guidelines require maintaining a minimum bending radius of twenty times the overall cable diameter during active pulling and installation, which reduces to fifteen times the diameter once fixed in place.

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:** Stranded copper 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

XHIV Cable - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
XHIV6KV1X25	25	1	20.00	660
XHIV12KV1X25	25	1	22.00	730
XHIV17/5KV1X25	25	1	24.00	820
XHIV6KV3X25	25	3	39.50	2405
XHIV12KV3X25	25	3	43.50	2705
XHIV17/5KV3X25	25	3	49.00	3125
XHIV6KV1X35	35	1	21.00	760
XHIV12KV1X35	35	1	23.00	830
XHIV17/5KV1X35	35	1	25.50	940
XHIV24KV1X35	35	1	27.50	1030
XHIV6KV3X35	35	3	41.50	2775
XHIV12KV3X35	35	3	46.50	3110
XHIV17/5KV3X35	35	3	51.50	3540
XHIV24KV3X35	35	3	56.00	3950
XHIV6KV1X50	50	1	22.00	915
XHIV12KV1X50	50	1	24.50	990
XHIV17/5KV1X50	50	1	26.50	1080
XHIV24KV1X50	50	1	29.00	1170
XHIV36KV1X50	50	1	34.00	1430
XHIV6KV3X50	50	3	44.50	3270
XHIV12KV3X50	50	3	49.00	3630
XHIV17/5KV3X50	50	3	54.50	4145
XHIV24KV3X50	50	3	59.00	4530
XHIV36KV3X50	50	3	70.50	5800
XHIV6KV1X70	70	1	24.00	1120
XHIV12KV1X70	70	1	26.00	1215
XHIV17/5KV1X70	70	1	28.50	1310
XHIV24KV1X70	70	1	30.50	1420
XHIV36KV1X70	70	1	36.00	1695
XHIV6KV3X70	70	3	48.50	4085
XHIV12KV3X70	70	3	53.00	4470
XHIV17/5KV3X70	70	3	57.50	4950
XHIV24KV3X70	70	3	63.00	5460
XHIV36KV3X70	70	3	74.50	6800
XHIV6KV1X95	95	1	26.00	1395
XHIV12KV1X95	95	1	28.00	1490
XHIV17/5KV1X95	95	1	30.00	1600
XHIV24KV1X95	95	1	32.50	1700



Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
XHIV36KV1X95	95	1	38.00	2100
XHIV6KV3X95	95	3	53.00	5000
XHIV12KV3X95	95	3	57.00	5465
XHIV17/5KV3X95	95	3	62.00	5940
XHIV24KV3X95	95	3	67.00	6465
XHIV36KV3X95	95	3	78.50	7980
XHIV6KV1X120	120	1	28.00	1695
XHIV12KV1X120	120	1	30.00	1760
XHIV17/5KV1X120	120	1	32.50	1885
XHIV24KV1X120	120	1	35.00	2000
XHIV36KV1X120	120	1	39.50	2300
XHIV6KV3X120	120	3	56.00	5920
XHIV12KV3X120	120	3	60.00	6400
XHIV17/5KV3X120	120	3	66.50	6920
XHIV24KV3X120	120	3	70.00	7480
XHIV36KV3X120	120	3	82.00	9070
XHIV6KV1X150	150	1	29.50	1915
XHIV12KV1X150	150	1	31.00	2050
XHIV17/5KV1X150	150	1	33.00	2140
XHIV24KV1X150	150	1	35.50	2000
XHIV36KV1X150	150	1	41.00	2595
XHIV6KV3X150	150	3	59.00	6820
XHIV17/5KV3X150	150	3	68.00	7945
XHIV24KV3X150	150	3	73.50	8470
XHIV36KV3X150	150	3	84.50	10045
XHIV6KV1X185	185	1	31.00	2300
XHIV12KV1X185	185	1	32.50	2400
XHIV17/5KV1X185	185	1	35.00	2540
XHIV24KV1X185	185	1	37.00	2655
XHIV36KV1X185	185	1	42.00	2990
XHIV6KV3X185	185	3	62.00	8060
XHIV12KV3X185	185	3	66.00	8595
XHIV17/5KV3X185	185	3	71.00	9170
XHIV24KV3X185	185	3	76.50	9790
XHIV36KV3X185	185	3	88.00	11480
XHIV6KV1X240	240	1	33.50	2890
XHIV12KV1X240	240	1	35.50	2995
XHIV17/5KV1X240	240	1	37.00	3130
XHIV24KV1X240	240	1	39.50	3250

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
XHIV36KV1X240	240	1	45.00	3620
XHIV6KV3X240	240	3	69.00	10290
XHIV12KV3X240	240	3	72.50	10615
XHIV17/5KV3X240	240	3	78.00	11270
XHIV24KV3X240	240	3	82.00	11940
XHIV36KV3X240	240	3	94.00	13630
XHIV6KV1X300	300	1	36.50	3550
XHIV12KV1X300	300	1	38.00	3630
XHIV17/5KV1X300	300	1	41.00	3785
XHIV24KV1X300	300	1	42.00	3920
XHIV36KV1X300	300	1	48.00	4325
XHIV6KV3X300	300	3	76.00	12470
XHIV12KV3X300	300	3	79.00	12880
XHIV17/5KV3X300	300	3	84.50	13600
XHIV24KV3X300	300	3	88.00	14785
XHIV36KV3X300	300	3	100.00	16150
XHIV6KV1X400	400	1	40.00	4520
XHIV12KV1X400	400	1	42.00	4585
XHIV17/5KV1X400	400	1	43.00	4710
XHIV24KV1X400	400	1	45.00	4885
XHIV36KV1X400	400	1	51.00	5310
XHIV6KV3X400	400	3	84.00	15845
XHIV12KV3X400	400	3	85.50	16075
XHIV17/5KV3X400	400	3	91.50	16835
XHIV24KV3X400	400	3	95.00	17625
XHIV36KV3X400	400	3	107.00	19630
XHIV6KV1X500	500	1	43.50	5480
XHIV12KV1X500	500	1	44.50	5540
XHIV17/5KV1X500	500	1	47.00	5690
XHIV24KV1X500	500	1	48.50	5860
XHIV36KV1X500	500	1	54.50	6310
XHIV6KV1X630	630	1	47.50	7110
XHIV12KV1X630	630	1	48.00	7140
XHIV17/5KV1X630	630	1	51.00	7325
XHIV24KV1X630	630	1	53.00	7520
XHIV36KV1X630	630	1	57.50	8010

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