



• Application

Medium voltage power cables specifically designed for robust power transmission and distribution in medium voltage networks. These cables are engineered to be suitable for underground installations, within cable ducting, and direct burial, making them ideal for use in utility networks, industrial plants, and commercial infrastructure where reliable and efficient power delivery is crucial. The cables are also well-suited for applications that require high mechanical protection and resistance to environmental stressors such as UV radiation, chemicals, and oils.

• Performance

Voltage rating $U_0/U(U_m)$: 8.7/15(17.5)kV

Mechanical performance:

Minimum bending radius of single core: 15 x overall diameter

Minimum bending radius of three cores: 12 x overall diameter

Single core: 12 x overall diameter and three cores: 10 x overall diameter where bends are positioned adjacent to a joint or termination, provided that the bending is carefully controlled by the use of a former.

Temperature rating:

Fixed: 0°C to +90°C

Fire performance:

Flame retardant according to IEC/EN 60332-1-2 standard

Reduced emission of halogens chlorine <15%

• Construction

Conductor: Class 2 stranded copper conductor

Conductor Screen: Semi-conductive XLPE (Cross-Linked Polyethylene)

Insulation: XLPE (Cross-Linked Polyethylene)

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Metallic Screen: Individual or collective overall copper tape screen

Filler: PET (polyethylene terephthalate) fibres

Separator: Binding tape

Inner Sheath: PVC (Polyvinyl chloride)

Armour:

Single-core conductor: AWA (Aluminium Wire Armouring)

Multi-core conductor: SWA (Steel Wire Armouring)

Outer Sheath: PVC (Polyvinyl chloride)

Sheath Colour: Red, black

• Specification

-BS 6622, IEC/EN 60228

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.

We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

Physical Performance Parameters								
Number of Cores	Nominal Cross Section Area	Minimum Thickness		Nominal Thickness of Semi Conductive Layer		Nominal Diameter		Nominal Weight
		Insulation	Outer Sheath	Inner	Outer	Over Insulation	Overall	
-	mm ²	mm	mm	mm	mm	mm	mm	kg/km
1	50	3.95	1.32	0.50	0.80	19.50	29	1400
1	70	3.95	1.40	0.50	0.80	21.10	31	1700
1	95	3.95	1.48	0.50	0.80	22.80	34	2100
1	120	3.95	1.48	0.50	0.80	24.10	35	2350
1	150	3.95	1.56	0.50	0.80	26.00	37	2700
1	185	3.95	1.56	0.50	0.80	27.30	39	3200
1	240	3.95	1.64	0.50	0.80	30.00	42	3750
1	300	3.95	1.72	0.50	0.80	32.10	45	4600
1	400	3.95	1.80	0.50	0.80	35.00	48	5500
1	500	3.95	1.88	0.50	0.80	38.00	51	6750
1	630	3.95	1.96	0.50	0.80	42.10	56	8200
3	50	3.95	2.12	0.50	0.80	19.50	57	5500
3	70	3.95	2.20	0.50	0.80	21.10	61	6500
3	95	3.95	2.28	0.50	0.80	22.80	65	7600
3	120	3.95	2.36	0.50	0.80	24.10	68	8600
3	150	3.95	2.52	0.50	0.80	26.00	74	10500
3	185	3.95	2.60	0.50	0.80	27.30	77	11900
3	240	3.95	2.76	0.50	0.80	30.00	83	14200
3	300	3.95	2.84	0.50	0.80	32.10	88	16600
3	400	3.95	3.08	0.50	0.80	35.00	95	19700
3	500	3.95	3.24	0.50	0.80	38.00	103	23600

Conductors				
Class 2 Stranded Conductors for Single Core and Multi-Core Cables				
Nominal Cross Section Area	Nominal Diameter of Conductor	Nominal Short Circuit Current at 1 Second	Conductor D.C. Resistance at 20 °C	Conductor A.C. Resistance at 90 °C
mm ²		kA	Ω/km	Ω/km
50	8.10	7.15	0.387	0.497
70	9.70	10.01	0.268	0.344
95	11.40	13.59	0.193	0.248
120	12.70	17.16	0.153	0.196
150	14.50	21.45	0.124	0.160
185	15.90	26.46	0.0991	0.128
240	18.60	34.32	0.0754	0.098
300	20.70	42.90	0.0601	0.080
400	23.50	57.20	0.0470	0.064
500	26.50	71.50	0.0366	0.0510
630	30.20	90.09	0.0283	0.0420

Electrical Performance Parameters				
Number of Cores	Nominal Cross Section Area	Current Carrying Capacity		Conductor Losses in the Ground
		in ground (20 °C)	in air (30 °C)	
	mm ²	A	A	kw/km
1	50	249	277	30.81
1	70	303	345	31.58
1	95	358	418	31.78
1	120	404	481	31.99
1	150	441	537	31.12
1	185	493	612	31.11
1	240	563	716	31.06
1	300	626	811	31.35
1	400	676	901	29.25
1	500	743	1006	28.15
1	630	-	-	-
3	50	210	206	65.75
3	70	256	257	67.63
3	95	307	313	70.12
3	120	349	360	71.62
3	150	392	410	73.76
3	185	443	469	75.36
3	240	513	553	77.40
3	300	576	635	79.60
3	400	650	731	81.10
3	500	-	-	-