



• Application

Medium voltage power cables are designed for use in power networks, suitable for installation underground, in cable ducting, and direct burial. These cables are ideal for providing reliable and efficient power distribution in various environmental conditions, including industrial and urban settings.

• Performance

Voltage rating $U_0/U(M)$: 6/10(12)kV
 Chemical performance: Chemical, UV, and oil resistance
 Mechanical performance (minimum bending radius):
 Single core unarmoured cable: 20 x overall diameter
 Single core AWA or aluminium tape armoured cable: 15 x overall diameter
 Three core unarmoured cable: 15 x overall diameter
 Three core SWA or STA armoured cable: 12 x overall diameter
 Thermal performance:
 Maximum operating temperature: 90°C
 Maximum short-circuit temperature: 250°C (Max. 5s)
 Minimum service temperature: -10°C
 Fire performance:
 Flame retardant according to IEC/EN 60332-1-2 standard
 Reduced emission of halogens chlorine <15%

• Construction

Conductor: Stranded compacted copper or aluminium conductor, class 2.
 Conductor Screen: Semi-conductive compound.
 Insulation: XLPE (cross-linked polyethylene)
 Alternative: EPR (Ethylene Propylene Rubber)
 Insulation Screen: Semi-conductive compound.
 Metallic Screen: Individual concentric copper wires and/or copper tape.
 Filler: PET (polyethylene terephthalate) fibres
 Binding Tape: Polyester tape or non-woven fabric
 Optional Inner Sheath: PVC (Polyvinyl chloride)
 Alternative: LSZH (Low Smoke Zero Halogen)
 Optional Armour:
 Single-core conductor: AWA (Aluminium Wire Armouring) or aluminium tape
 Three-core conductor: SWA (Steel Wire Armouring) or galvanized steel tape (single or double layer, flat or corrugated)
 Outer Sheath: PVC (Polyvinyl chloride)
 Alternative: LDPE, MDPE (Low/Medium Density Polyethylene)
 Alternative: LSZH (Low Smoke Zero Halogen)
 Conductor Shape
 Single Core: Circular, circular compacted
 Three Core: Circular, circular compacted, sectorial

• Specification

-BS 6622, IEC/EN 60228, IEC 60502-2

• 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 and Technical Performance Parameters											
No. of Cores	Nominal Cross Section Area	Nominal Dia. of Conductor	Nominal Thickness of Insulation	Max. Resistance of Conductor				Approx. Short Circuit Current			
				D.C. at 20°C		A.C. at 90°C		Conductor(1s)		Copper Wire Screen(1s)	
				Copper	Aluminum	Copper	Aluminum	Copper	Aluminum	Unarmored	AWA
-	mm ²	mm	mm	Ω/km	Ω/km	Ω/km	Ω/km	kA	kA	kA	kA
1	35	7.1	3.4	0.524	-	0.668	-	5.0	-	1.96	-
1	50	8.3	3.4	0.387	0.641	0.494	0.822	7.2	4.7	1.96	2.39
1	70	9.7	3.4	0.268	0.443	0.342	0.568	10.0	6.6	1.96	2.39
1	95	11.5	3.4	0.193	0.320	0.247	0.411	13.6	9.0	1.96	2.39
1	120	12.9	3.4	0.153	0.253	0.196	0.325	17.2	11.3	1.96	2.39
1	150	14.3	3.4	0.124	0.206	0.159	0.265	21.5	14.2	3.1	3.7
1	185	15.9	3.4	0.0991	0.164	0.128	0.211	26.5	17.5	3.1	3.7
1	240	18.3	3.4	0.0754	0.125	0.0984	0.162	34.3	22.7	3.1	3.7
1	300	20.6	3.4	0.0601	0.100	0.0796	0.130	42.9	28.3	3.1	3.7
1	400	23.5	3.4	0.0470	0.0778	0.0631	0.102	57.2	37.8	4.33	5.18
1	500	26.6	3.4	0.0366	0.0605	0.0508	0.0802	71.5	47.2	4.33	5.18
1	630	30.4	3.4	0.0283	0.0469	0.0434	0.0651	90.1	59.0	4.33	5.18
3	35	7.1	3.4	0.524	-	0.669	-	5.0	-	1.96	-
3	50	8.3	3.4	0.387	-	0.494	-	7.15	-	1.96	-
3	70	9.7	3.4	0.268	0.443	0.344	0.569	10.01	6.56	1.96	1.96
3	95	11.5	3.4	0.193	0.320	0.247	0.411	13.59	8.90	1.96	1.96
3	120	12.9	3.4	0.153	0.253	0.196	0.325	17.16	11.24	1.96	1.96
3	150	14.3	3.4	0.124	0.206	0.161	0.265	21.45	14.06	3.1	3.1
3	185	15.9	3.4	0.0991	0.164	0.129	0.212	26.46	17.33	3.1	3.1
3	240	18.3	3.4	0.0754	0.125	0.099	0.163	34.32	22.49	3.1	3.1
3	300	20.6	3.4	0.0601	0.100	0.0815	0.131	42.90	28.11	3.1	3.1
3	400	23.5	3.4	0.0470	0.0778	0.0660	0.103	57.20	37.48	4.33	4.33

● Technical Parameters

Electrical Performance Parameters (Copper Conductor)								
No.of Cores	Nominal Cross Section Area	Max.D.C. Resistance of Conductor at 20°C	Continuous Current Rating					
			in ground		in duct		in air	
			flat	trefoil	flat	trefoil	flat	trefoil
-	mm ²	Ω/km	A	A	A	A	A	A
1	50	0.387	220	230	220	220	250	300
1	70	0.268	270	280	260	270	310	370
1	95	0.193	320	335	305	325	375	460
1	120	0.153	360	380	340	370	430	530
1	150	0.124	410	430	375	410	490	600
1	185	0.0991	455	485	410	460	550	690
1	240	0.0754	520	560	470	540	650	820
1	300	0.0601	580	640	500	610	740	940
1	400	0.047	650	730	530	690	840	1100
1	500	0.0366	710	830	570	780	930	1280
1	630	0.0283	760	940	620	890	1040	1480
1	800	0.0221	810	1060	660	990	1140	1690
1	1000	0.0176	860	1170	690	1090	1230	1900
3	35	0.524	170	170	150	150	175	175
3	50	0.387	210	210	180	180	220	220
3	70	0.268	250	250	215	215	270	270
3	95	0.193	300	300	255	255	330	330
3	120	0.153	340	340	290	290	380	380
3	150	0.124	380	380	330	330	430	430
3	185	0.0991	430	430	370	370	490	490
3	240	0.0754	500	500	430	430	570	570
3	300	0.0601	540	540	470	470	650	650