



## • Application

These Single Core XLPE AWA PVC cables are designed for a wide range of fixed assembly configurations. They are suitable for installation in industrial settings, indoor environments, cable ducts, conduits, and shafts. Additionally, they can be used over shelves and grills, placed underground in ditches, and for outdoor applications. Their robust construction makes them ideal for reliable power and control applications across various challenging environments.

## • Performance

Voltage Rating:  $U_0/U$ : 1.9/3.3kV

Temperature Rating: Fixed installation: -25°C to +90°C

Minimum Bending Radius: 8 x overall diameter

## • Construction

Conductor: Class 2 stranded copper conductor or conductor made of aluminum or an alloy of aluminum

Insulation: XLPE (Cross-linked polyethylene)

Bedding: PVC (Polyvinyl chloride)

Armour: AWA (Aluminium wire armour)

Outer Sheath: PVC (Polyvinyl chloride)

Core Identification:

Single Core: Brown

Sheath Colour: Black

## • Specification

-BS 5467, IEC/EN 60502-1, 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 Rhineland 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 and Resistance										
No. of Cores	Nominal Cross Section Area	Nominal Thickness of Insulation	Min. Number of Individual Wires in Conductor						Maximum Resistance of Conductor at 20°C	
			Circular		Circular Compact		Shaped			
			Copper	Aluminum	Copper	Aluminum	Copper	Aluminum	Copper	Aluminum
-	mm <sup>2</sup>	mm	-	-	-	-	kg/km	kg/km	Ω/km	Ω/km
1	50	1	19	19	6	6	6	6	0.387	0.641
1	70	1.1	19	19	12	12	12	12	0.268	0.443
1	95	1.1	19	19	15	15	15	15	0.193	0.32
1	120	1.2	37	37	18	18	18	18	0.153	0.253
1	150	1.4	37	37	18	15	18	15	0.124	0.206
1	185	1.6	37	37	18	15	18	15	0.0991	0.164
1	240	1.7	37	37	34	30	34	30	0.0754	0.125
1	300	1.8	61	61	34	30	34	30	0.0601	0.1
1	400	2	61	61	53	53	53	53	0.047	0.0778
1	500	2.2	91	91	53	53	53	53	0.475	0.0605
1	630	2.4	91	91	53	53	53	53	0.0283	0.0469
1	800	2.6	91	91	53	53	-	-	0.0221	-
1	1000	2.8	91	91	53	53	-	-	0.0176	-

Nominal Cross Section Area	Electrical Performance(Current Carrying Capacity of copper conductor )											
	Reference Method C (Clipped Direct)			Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)								
	Touching		Three Cables Single-Phase A.C. or D.C. Flat	Touching		Three Cables Three-Phase A.C. Trefoil	Spaced By One Cable Diameter					
	Two Cables Single Phase A.C. or D.C. Flat	Three or Four Cables Three Phase A.C. Flat		Three Cables Three-Phase A.C. Flat	Two Cables D.C.		Two Cables Single Phase A.C.		Three or Four Cables Three-Phase A.C.			
					Horizontal		Vertical	Horizontal	Vertical	Horizontal	Vertical	
mm <sup>2</sup>	A	A	A	A	A	A	A	A	A	A	A	
50	237	220	253	232	222	284	270	282	266	288	266	
70	303	277	322	293	285	356	349	357	337	358	331	
95	367	333	389	352	346	446	426	436	412	425	393	
120	425	383	449	405	402	519	497	504	477	485	449	
150	488	437	516	462	463	600	575	566	539	549	510	
185	557	496	587	524	529	688	660	643	614	618	574	
240	656	579	689	612	625	815	782	749	714	715	666	
300	755	662	792	700	720	943	906	842	805	810	755	
400	853	717	899	767	815	1137	1094	929	889	848	797	
500	962	791	1016	851	918	1314	1266	1032	989	923	871	
630	1082	861	1146	935	1027	1528	1474	1139	1092	992	940	
800	1170	904	1246	987	1119	1809	1744	1204	1155	1042	978	
1000	1261	961	1345	1055	1214	2100	2026	1289	1238	1110	1041	