Application

The three-core Cu XLPE SWA PVC 1.9/3.3kV power cable is designed for a wide range of power and auxiliary fixed wiring applications. It is ideal for use in power networks, underground installations, outdoor and indoor environments, and cable ducting. This cable offers robust performance for reliable power delivery in various challenging conditions.

Performance

Electrical Performance: U_0/U: 1.9/3.3kV
Chemical Performance: Resistant to chemicals, UV radiation, and oil
Mechanical Performance: Minimum bending radius: 15 x overall diameter
Thermal Performance:
Maximum service temperature: 90℃;
Maximum short-circuit temperature: 250℃ (Max. 5s)
Fire Performance: Low Smoke Zero Halogen according to IEC/EN 61034 and IEC/EN 60754; Flame retardant according to IEC/EN 60332-1

Construction

Conductor: Class 2 stranded copper conductor
Insulation: XLPE (Cross-linked polyethylene)
Filler: HFFR (Halogen Free Flame Retardant)
Armoring: AWA (Aluminium Wire Armour)
Sheath: HFFR (Halogen Free Flame Retardant)
Core Identification: Brown
Sheath Colour: Black

Specification

-BS 6724
-Low Smoke Zero Halogen according to IEC/EN 61034
-IEC/EN 60754
-Flame retardant according to IEC/EN 60332-1

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 Parameters							
No.of Cores	Nominal Cross Section Area	Nominal Dia. of Conductor	Nominal Thickness of Insulation	Min. Thickness of Outer Sheath	Nominal Outer Dia.	Nominal Weight	Max. Conducter D.C. Resistance At 20°C
-	mm^2	mm	mm	mm	mm	kg/km	Ω/km
1	50	8.1	2	1.08	19	956	0.387
1	70	9.7	2	1.08	20	1201	0.268
1	95	11.4	2	1.08	22	1499	0.193
1	120	12.65	2	1.16	25	1936	0.153
1	150	14.15	2	1.16	26	2254	0.124
1	185	15.75	2	1.24	28	2650	0.0991
1	240	18.2	2	1.24	30	3280	0.0754
1	300	20.5	2	1.32	33	3938	0.0601
1	400	23	2	1.4	37	5090	0.0471
1	500	26	2.2	1.48	40	6255	0.0366
1	630	29.7	2.4	1.56	45	7809	0.0283

Electrical Performance(Current Carrying Capacity of copper conductor)											
Nominal Cross Section Area	Reference Method C (Clipped Direct)		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)								
	Touching		Touching			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 Single-Phase A.C. or D.C. Flat	Three Cables Three-Phase A.C. Flat	Three Cables Three-Phase A.C. Trefoil	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^2	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