Application

The BS 6622 8.7/15kV AWA/SWA XLPE PVC Cable is designed for electrical power transmission and distribution. It is suitable for various applications such as overhead installations, underground burial, permanent wiring inside buildings, and exposed installations. This cable ensures efficient transmission of electrical power while providing protection and durability.

Performance

Electrical Performance: U_0/U: 8.7/15 (17.5) kV
Chemical Performance: Resistant to chemicals, UV radiation, and oil
Mechanical Performance:
Single Core: Fixed: 15 x overall diameter
3 Core: Fixed: 12 x overall diameter
Single Core (adjacent to joint or termination): 12 x overall diameter
Three Core (adjacent to joint or termination): 10 x overall diameter
Terminal Performance: Fixed: 0°C to +90°C
Fire Performance:
Flame Retardant according to IEC/EN 60332-1-2 Standard

Construction

Conductor: Class 2 stranded copper conductor
Insulation: Semi-conductive Cross-Linked Polyethylene (XLPE)
Insulation Screen: Semi-conductive XLPE
Metallic Screen: Individual or collective overall copper tape screen
Filler: PET (Polyethylene Terephthalate) fibres
Separator: Binding tape
Bedding: PVC (Polyvinyl Chloride)
Armour:
Single Core: AWA (Aluminium Wire Armoured)
Multi-core: SWA (Steel Wire Armoured)
Sheath: PVC (Polyvinyl Chloride)
Sheath Colour: Red Black

Specification

-BS 6622, IEC/EN 60228 Standard

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

No. of Cores	Nominal Cross Section Area	Physical Performance						Conductor D.C. Resistance at 20 °C
		Min. Thickness		Nominal Thickness Of Semi Conductive Layer		Nominal Dia.		
		Insulation	Outer Sheath	Inner	Outer	Over Insulation	Overall	
-	mm^2	mm	mm	mm	mm	mm	mm	Ω/km
1	50	3.95	1.32	0.5	0.8	19.5	29	0.497
1	70	3.95	1.4	0.5	0.8	21.1	31	0.344
1	95	3.95	1.48	0.5	0.8	22.8	34	0.248
1	120	3.95	1.48	0.5	0.8	24.1	35	0.196
1	150	3.95	1.56	0.5	0.8	26	37	0.16
1	185	3.95	1.56	0.5	0.8	27.3	39	0.128
1	240	3.95	1.64	0.5	0.8	30	42	0.098
1	300	3.95	1.72	0.5	0.8	32.1	45	0.08
1	400	3.95	1.8	0.5	0.8	35	48	0.064
1	500	3.95	1.88	0.5	0.8	38	51	0.051
1	630	3.95	1.96	0.5	0.8	42.1	56	0.042
3	50	3.95	2.12	0.5	0.8	19.5	57	0.497
3	70	3.95	2.2	0.5	0.8	21.1	61	0.344
3	95	3.95	2.28	0.5	0.8	22.8	65	0.248
3	120	3.95	2.36	0.5	0.8	24.1	68	0.196
3	150	3.95	2.52	0.5	0.8	26	74	0.16
3	185	3.95	2.6	0.5	0.8	27.3	77	0.128
3	240	3.95	2.76	0.5	0.8	30	83	0.098
3	300	3.95	2.84	0.5	0.8	32.1	88	0.08
3	400	3.95	3.08	0.5	0.8	35	95	0.064
3	500	3.95	3.24	0.5	0.8	38	103	0.051

Technical Parameters

Electrical Performance (Current Carrying Capacity of Copper Conductor)				
No. 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	77.4
3	300	576	635	79.6
3	400	650	731	81.1
3	500	-	-	-