



• 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:

Voltage Rating: U_0/U : 1.9/3.3kV

Chemical Performance: Resistant to chemicals, UV radiation, and oil

Mechanical Performance:

Minimum Bending Radius: 12 x overall diameter

Thermal Performance:

Maximum Service Temperature: 90°C

Maximum Short-Circuit Temperature: 250°C (for a maximum of 5 seconds)

Minimum Service Temperature: 0°C

Fire Performance:

Flame Retardant: Meets IEC/EN 60332-1-2 standards

Halogen Emission: Reduced emission of halogens with chlorine content < 15%

• Construction

Conductor: Class 2 stranded copper conductor

Insulation: XLPE (Cross-linked polyethylene)

Bedding: PVC (Polyvinyl chloride)

Armoring: SWA (Steel wire armour)

Outer Sheath: PVC (Polyvinyl chloride) or PE (Polyethylene)

Core Identification:

Three Cores: Brown, Black, Gray

Sheath Colour: Black

• Specification

BS 5467, IEC 60502-1, IEC 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 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						
No. of Cores	Nominal Cross Section Area	Nominal Dia. of Conductor	Nominal Thickness of Insulation	Min. Thickness of Outer Sheath	Nominal Overall Dia.	Nominal Weight
-	mm ²	mm	mm	mm	mm	kg/km
3	10	3.85	2.0	1.24	23.0	1545
3	16	4.70	2.0	1.24	27.0	1680
3	25	5.85	2.0	1.24	30.0	2100
3	35	6.90	2.0	1.32	32.0	2530

Physical Performance Parameters				
Nominal Cross Section Area	Current Carrying Capacity			Max. D.C. Resistance of Conductor at 20°C
	clipped direct	in free air or on a perforated cable tray atc, horizontal or vertical at 30°C	direct in ground or in ducting in ground in or around buildings at 20°C	
	1 three or 1 four core cable three-phase A.C. or D.C.	1 three or 1 four core cable three-phase A.C. or D.C.	1 three or 1 four core cable three-phase A.C. or D.C.	
mm ²	A	A	A	Ω/km
10	73	78	58	1.83
16	94	99	75	1.15
25	124	131	96	0.727
35	154	162	115	0.524

Note:

Air ambient temperature: 30°C

Ground ambient temperature: 20°C

Conductor operating temperature: 90°C