



## • Application

The aluminum/copper concentric cable finds its application in electric service entrances, particularly from the power distribution network to the meter panel, especially where prevention of electricity theft is necessary. It also serves as feeder cable from the meter panel to the distribution panel. This cable can be deployed in both dry and wet environments, whether outdoors or directly buried. It boasts a maximum operating temperature of 90°C and a rated voltage of 600V and below. The twin concentric cable, comprising two concentric conductors with the conductor and shield layer sharing the same axis, is typically employed in distribution networks, current surface boards, meters, or circuit panels. It can be installed directly underground or outdoors, even in dry and humid conditions, supporting high-bandwidth communications on relatively long lines without repeaters.

## • Performance

Electrical Performance:  $U_0/U$ : 0.6/1kV

Chemical Performance: Exhibits good chemical resistance, UV resistance, and oil resistance

Mechanical Performance: Minimum bending radius: x10 overall diameter

Terminal Performance:

Maximum Service Temperature: 90°C

Maximum Short-Circuit Temperature: 250°C (max. 5s)

Minimum Service Temperature: -40°C

Fire Performance:

Flame Retardant according to IEC/EN 60332-1 standard

Reduced Emission of Halogens: Chlorine <15%

## • Construction

Conductor: Solid or stranded copper conductor/aluminum conductor/8000 aluminum alloy conductor

Insulation: XLPE (Cross-linked polyethylene), PE, or PVC. For cables of two-phase or three-phase conductors, round or flat shapes are available.

Inner Covering: PVC

Concentric Layer: Helically laid copper/aluminum wires/8000 series aluminum alloy

Wrapping Tape: Outer Jacket: Black XLPE, PE, or PVC jacket

## • Specification

-ASTM B800, ASTM B801 Standard Aluminium/Copper Concentric Electric Cable

## • 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											
Size	Phase Conductor		XLPE Insulation		Neutral Conductor		XLPE Sheath		Approx.Weight		
	Structure	Outer Dia.	Thickness	Outer Dia.	Structure	Outer Dia.	Thickness	Outer Dia.	Copper	Aluminium	CCA
AWG	No./mm	mm	mm	mm	No./mm	mm	mm	mm	kg/km	kg/km	kg/km
2×8	7/1.23	3.69	1.14	5.97	25/0.65	7.27	1.14	9.84	202	97	101
2×10	7/0.98	2.94	1.14	5.22	25/0.52	6.26	1.14	8.83	141	74	77

Physical Performance Parameters											
Size	Phase Conductor		XLPE Insulation		Inner Sheath	Neutral Conductor	XLPE Sheath		Approx.Weight		
	Structure	Outer Dia.	Thickness	Outer Dia.	Thickness	Structure	Thickness	Outer Dia.	Copper	Aluminium	CCA
AWG	No./mm	mm	mm	mm	mm	No./mm	mm	mm	kg/km	kg/km	kg/km
3×8	7/1.23	3.69	1.14	5.97	0.7	65/0.41	1.14	16.59×10.62	396	227	233
3×6	7/1.55	4.65	1.14	6.93	0.7	65/0.52	1.14	18.73×11.80	551	297	307
3×4	7/1.96	4.98	1.14	8.16	0.7	65/0.65	1.52	22.21×14.05	830	427	443
3×2	7/2.47	7.41	1.14	9.69	0.7	65/0.83	1.52	25.63×15.94	1233	587	613

