

IEC60502-1 , UL854 , ASTM , BS 7870

Application

The concentric cable 600/1000V is used as electric service from the power distribution ,to transmit the power to the business center ,residential and rural areas.

Cable construction

Popular size: 8AWG ~ 4AWG , 6 ~ 25mm²

Core number: 1+1C

Concentric Layer , XLPE/PE/PVC Jacket

Conductor : Cu/Al/Al 8000/CCA

Insulation : XLPE/PVC/PE

Bedding (applicable for 2cores and above) : PVC /PE

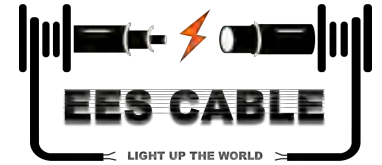
Neutral conductor : Same material as phase conductor, concentric stranded with coverage $\geq 50\%$

Jacket : PVC /PE/ , Weather resistant

Cable shape : Round or Flat

ASTM Standard

Concentric Cable Low Voltage



ASTM Standard

No. of cores Nominal cross section	Conductor		Thickness of Insulation	Concentric Neutral conductor		Thickness of Sheath	Approx. overall Dia.	Max. DC resistance of conductor at 20°C	
	AWG	No.	Dia. mm	No.	Dia. mm	mm	mm	Ω/km (Phase)	Ω/km (Neutral)
Copper Conductor (ASTM Standard)									
2X #12	7	0.78	1.14	39	0.321	1.14	7.74	5.43	5.5
2X #10	7	0.98	1.14	25	0.511	1.14	8.72	3.41	3.5
2X #8	7	1.23	1.14	25	0.643	1.14	9.74	2.14	2.2
2X #6	7	1.55	1.14	25	0.813	1.14	11.04	1.35	1.4
2X #4	7	1.96	1.14	26	1.02	1.14	12.68	0.848	0.85
3X #8	7	1.23	1.14	65	0.405	1.14	11.3X17.3	2.14	2.2
3X #6	7	1.55	1.14	65	0.511	1.52	13.2X20.2	1.35	1.4
3X #4	7	1.96	1.14	65	0.643	1.52	14.7X22.9	0.848	0.85
3X #2	7	2.47	1.14	65	0.823	1.52	16.6X26.3	0.524	0.53
8000 Aluminum Alloy Conductor (ASTM Standard)									
2X #12	7	0.78	1.14	39	0.321	1.14	7.74	8.88	8.9
2X #10	7	0.98	1.14	25	0.511	1.14	8.72	5.59	5.6
2X #8	7	1.23	1.14	25	0.643	1.14	9.74	3.52	3.6
2X #6	7	1.55	1.14	25	0.813	1.14	11.04	2.21	2.3
2X #4	7	1.96	1.14	26	1.02	1.14	12.68	1.39	1.4
3X #8	7	1.23	1.14	65	0.405	1.14	11.3X17.3	3.52	3.6
3X #6	7	1.55	1.14	65	0.511	1.52	13.2X20.2	2.21	2.3
3X #4	7	1.96	1.14	65	0.643	1.52	14.7X22.9	1.39	1.4
3X #2	7	2.47	1.14	65	0.823	1.52	16.6X26.3	0.88	0.89

IEC Standard

Concentric Cable Low Voltage



IEC Standard

No. of cores Nominal cross section	Conductor		Thickness of Insulation	Concentric Neutral conductor		Thickness of Sheath	Approx. overall Dia.	Max. DC resistance of conductor at 20°C	
	No.	Dia.		mm	No.			Dia.	mm

Copper Conductor (IEC Standard)

2X10	7	1.35	1.55	20	0.85	1.4	11.8	1.83	1.9
2X16	7	1.7	1.55	32	0.85	1.4	12.84	1.15	1.2
2X25	7	2.14	1.6	29	1.13	1.5	15.02	0.727	0.76
2X35	19	1.53	1.65	27	1.35	1.6	17	0.524	0.55

8000 Aluminum Alloy Conductor (IEC Standard)

2X10	7	1.35	1.55	23	1.13	1.4	12.41	3.08	1.335
2X16	7	1.7	1.55	26	1.13	1.4	13.46	1.91	1.808
2X25	7	2.14	1.6	29	1.13	1.5	15.08	1.2	1.0586
2X35	19	1.53	1.65	27	1.35	1.6	17.05	0.868	0.7966

IEC Standard

Cable Size	Conductor size (AAC)	Insulation thickness (XLPE)	Concentric conductor (AAAC 8000)	Outer sheath thickness (PVC)	Overall Diameter	Cable Mass
mm ²	N/mm	mm	N/mm	mm	mm	kg/km
3*10/10	7/1.35	0.7	51/0.50	1.6	18.7	355.4
3*16/16	7/1.70	0.7	56/0.60	1.6	21.2	465.7