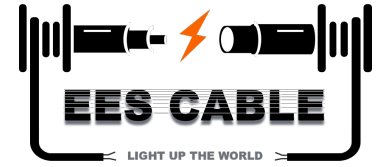


ABC SANS 1418-2009

Five-Core

Aerial Bundled Cables Low Voltage(ABC LV)

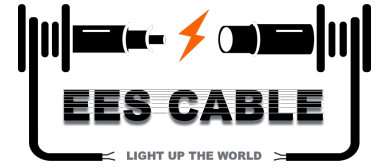


Phase		Supporting		Service connection		Phase						Supporting						Service connection						Cable diameter
AAC+XLPE		AAAC+XLPE		AAC+XLPE		Conductor		Insulation				Conductor		Insulation				Conductor		Insulation				
N o. of core	Size	N o. of core	Size	N o. of core	Size	strand	OD.	UV-XLPE			Single Core		OD.	UV-XLPE			Stran d	Com pacted Dia.	XLPE					
								Thic k ness	MIN	OD.	stra nd	OD.		Thic k ness	min	OD.			Thic k ness	MIN	OD.			
3	16	1	54.6	1	25	7	4.8	1.2	0.98	7.2	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	27.05		
3	25	1	54.6	1	25	7	6.0	1.4	1.16	8.8	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	30.25		
3	35	1	54.6	1	25	7	7.0	1.6	1.34	10.2	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	33.05		
3	50	1	54.6	1	25	7	8.3	1.6	1.34	11.5	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	35.65		
3	70	1	54.6	1	25	19	10.0	1.8	1.52	13.6	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	39.85		
3	95	1	54.6	1	25	19	11.6	1.8	1.52	15.2	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	43.05		
3	120	1	54.6	1	25	19	13.0	1.8	1.52	16.6	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	45.85		
3	150	1	54.6	1	25	19	14.6	1.8	1.52	18.2	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	49.05		
3	16	1	54.6	2	25	7	4.8	1.2	0.98	7.2	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	27.05		
3	25	1	54.6	2	25	7	6.0	1.4	1.16	8.8	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	30.25		
3	35	1	54.6	2	25	7	7.0	1.6	1.34	10.2	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	33.05		
3	50	1	54.6	2	25	7	8.3	1.6	1.34	11.5	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	35.65		
3	70	1	54.6	2	25	19	10.0	1.8	1.52	13.6	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	39.85		
3	95	1	54.6	2	25	19	11.6	1.8	1.52	15.2	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	43.05		
3	120	1	54.6	2	25	19	13.0	1.8	1.52	16.6	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	45.85		
3	150	1	54.6	2	25	19	14.6	1.8	1.52	18.2	7	3.15	9.45	1.6	1.34	12.65	7	6.0	1.4	1.16	8.8	49.05		
3	16	1	70	1	25	7	4.8	1.2	0.98	7.2	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	28.1		
3	25	1	70	1	25	7	6.0	1.4	1.16	8.8	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	31.3		
3	35	1	70	1	25	7	7.0	1.6	1.34	10.2	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	34.1		
3	50	1	70	1	25	7	8.3	1.6	1.34	11.5	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	36.7		
3	70	1	70	1	25	19	10.0	1.8	1.52	13.6	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	40.9		

ABC SANS 1418-2009

Five-Core

Aerial Bundled Cables Low Voltage(ABC LV)



3	95	1	70	1	25	19	11.6	1.8	1.52	15.2	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	44.1
3	120	1	70	1	25	19	13.0	1.8	1.52	16.6	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	46.9
3	150	1	70	1	25	19	14.6	1.8	1.52	18.2	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	50.1
3	16	1	70	2	25	7	4.8	1.2	0.98	7.2	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	28.1
3	25	1	70	2	25	7	6.0	1.4	1.16	8.8	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	31.3
3	35	1	70	2	25	7	7.0	1.6	1.34	10.2	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	34.1
3	50	1	70	2	25	7	8.3	1.6	1.34	11.5	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	36.7
3	70	1	70	2	25	19	10.0	1.8	1.52	13.6	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	40.9
3	95	1	70	2	25	19	11.6	1.8	1.52	15.2	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	44.1
3	120	1	70	2	25	19	13.0	1.8	1.52	16.6	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	46.9
3	150	1	70	2	25	19	14.6	1.8	1.52	18.2	7	3.5	10.5	1.6	1.34	13.7	7	6.0	1.4	1.16	8.8	50.1
3	16	1	54.6	1	16	7	4.8	1.2	0.98	7.2	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	27.05
3	25	1	54.6	1	16	7	6.0	1.4	1.16	8.8	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	30.25
3	35	1	54.6	1	16	7	7.0	1.6	1.34	10.2	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	33.05
3	50	1	54.6	1	16	7	8.3	1.6	1.34	11.5	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	35.65
3	70	1	54.6	1	16	19	10.0	1.8	1.52	13.6	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	39.85
3	95	1	54.6	1	16	19	11.6	1.8	1.52	15.2	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	43.05
3	120	1	54.6	1	16	19	13.0	1.8	1.52	16.6	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	45.85
3	150	1	54.6	1	16	19	14.6	1.8	1.52	18.2	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	49.05
3	16	1	54.6	2	16	7	4.8	1.2	0.98	7.2	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	27.05
3	25	1	54.6	2	16	7	6.0	1.4	1.16	8.8	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	30.25
3	35	1	54.6	2	16	7	7.0	1.6	1.34	10.2	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	33.05
3	50	1	54.6	2	16	7	8.3	1.6	1.34	11.5	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	35.65
3	70	1	54.6	2	16	19	10.0	1.8	1.52	13.6	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	39.85
3	95	1	54.6	2	16	19	11.6	1.8	1.52	15.2	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	43.05
3	120	1	54.6	2	16	19	13.0	1.8	1.52	16.6	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	45.85
3	150	1	54.6	2	16	19	14.6	1.8	1.52	18.2	7	3.15	9.45	1.6	1.34	12.65	7	4.8	1.2	0.98	7.2	49.05
3	16	1	70	1	16	7	4.8	1.2	0.98	7.2	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	27.9
3	25	1	70	1	16	7	6.0	1.4	1.16	8.8	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	31.1
3	35	1	70	1	16	7	7.0	1.6	1.34	10.2	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	33.9
3	50	1	70	1	16	7	8.3	1.6	1.34	11.5	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	36.5
3	70	1	70	1	16	19	10.0	1.8	1.52	13.6	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	40.7
3	95	1	70	1	16	19	11.6	1.8	1.52	15.2	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	43.9
3	120	1	70	1	16	19	13.0	1.8	1.52	16.6	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	46.7
3	150	1	70	1	16	19	14.6	1.8	1.52	18.2	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	49.9
3	16	1	70	2	16	7	4.8	1.2	0.98	7.2	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	27.9
3	25	1	70	2	16	7	6.0	1.4	1.16	8.8	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	31.1
3	35	1	70	2	16	7	7.0	1.6	1.34	10.2	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	33.9
3	50	1	70	2	16	7	8.3	1.6	1.34	11.5	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	36.5
3	70	1	70	2	16	19	10.0	1.8	1.52	13.6	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	40.7
3	95	1	70	2	16	19	11.6	1.8	1.52	15.2	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	43.9
3	120	1	70	2	16	19	13.0	1.8	1.52	16.6	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	46.7
3	150	1	70	2	16	19	14.6	1.8	1.52	18.2	7	3.5	10.5	1.5	1.25	13.5	7	4.8	1.2	0.98	7.2	49.9

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Four-Core

Aerial Bundled Cables Low Voltage(ABC LV)

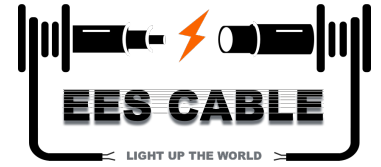


Phase		Supporting		Phase					Supporting					Cable Dia.	Rated Strength(Min.)kN		Conductor DC. Resistance at 20°C ohm/km (max.)		
AAC+XLPE		AAAC+XLP E		Conductor		Insulation			Conductor		Insulation				Phase	Supporting	Phase	Supporting	
N o. of core	Size	N o. of core	Size	Single core Strand	Com pac ted Dia .	UV-XLPE			Single core strand	OD.	UV-XLPE								
						Thi ck ness	M I N	OD.		OD.	Thi ck ness	min	OD						
3	35	1	54.6	7	7.0	1.6	1.34	10.2	7	3.15	9.45	1.6	1.34	12.65	26.17	4.5	16.6	0.868	0.63
3	50	1	54.6	7	8.3	1.6	1.34	11.5	7	3.15	9.45	1.6	1.34	12.65	28.53	6.2	16.6	0.641	0.63
3	70	1	54.6	19	10.0	1.8	1.52	13.6	7	3.15	9.45	1.6	1.34	12.65	32.34	8.9	16.6	0.443	0.63
3	95	1	54.6	19	11.6	1.8	1.52	15.2	7	3.15	9.45	1.6	1.34	12.65	35.24	12.3	16.6	0.320	0.63
3	120	1	54.6	19	13.0	1.8	1.52	16.6	7	3.15	9.45	1.6	1.34	12.65	37.78	15.6	16.6	0.253	0.63
3	150	1	54.6	19	14.6	1.8	1.52	18.2	7	3.15	9.45	1.6	1.34	12.65	40.69	19.2	16.6	0.206	0.63
3	16	1	70	7	4.8	1.2	0.98	7.2	7	3.5	10.5	1.6	1.34	13.7	21.36	2.07	20.1	1.91	0.50
3	25	1	70	7	6.0	1.4	1.16	8.8	7	3.5	10.5	1.6	1.34	13.7	24.26	3.3	20.1	1.20	0.50
3	35	1	70	7	7.0	1.6	1.34	10.2	7	3.5	10.5	1.6	1.34	13.7	26.8	4.5	20.1	0.868	0.50
3	50	1	70	7	8.3	1.6	1.34	11.5	7	3.5	10.5	1.6	1.34	13.7	29.16	6.2	20.1	0.641	0.50
3	70	1	70	19	10.0	1.8	1.52	13.6	7	3.5	10.5	1.6	1.34	13.7	32.97	8.9	20.1	0.443	0.50
3	95	1	70	19	11.6	1.8	1.52	15.2	7	3.5	10.5	1.6	1.34	13.7	35.88	12.3	20.1	0.320	0.50
3	120	1	70	19	13.0	1.8	1.52	16.6	7	3.5	10.5	1.6	1.34	13.7	38.42	15.6	20.1	0.253	0.50
3	150	1	70	19	14.6	1.8	1.52	18.2	7	3.5	10.5	1.6	1.34	13.7	41.32	19.2	20.1	0.206	0.50

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1-4 Core ABC Cable without Neutral and Lighting Conductor

Aerial Bundled Cables Low Voltage(ABC LV)



Phase		Phase		Phase			Cable Dia.	Rated Strength(Min.)kN	Conductor DC. Resistance at 20°C ohm/km(max.)
AAC+XLPE		Conductor		Insulation					
No. of core	Size	Single Core	Compact ed Dia.	UV-XLPE					
				Strand	Thickness	MIN	OD.		
4	16	7	4.8	1.2	0.98	7.2	17.42	2.07	1.91
4	25	7	6.0	1.4	1.16	8.8	21.3	3.3	1.20
4	35	7	7.0	1.6	1.34	10.2	24.68	4.5	0.868
4	50	7	8.3	1.6	1.34	11.5	27.83	6.2	0.641
4	70	19	10.0	1.8	1.52	13.6	32.91	8.9	0.443
4	95	19	11.6	1.8	1.52	15.2	36.78	12.3	0.320
4	120	19	13.0	1.8	1.52	16.6	40.17	15.6	0.253
4	150	19	14.6	1.8	1.52	18.2	44.04	19.2	0.206
3	16	7	4.8	1.2	0.98	7.2	15.55	2.07	1.91
3	25	7	6.0	1.4	1.16	8.8	19.01	3.3	1.20
3	35	7	7.0	1.6	1.34	10.2	22.03	4.5	0.868
3	50	7	8.3	1.6	1.34	11.5	24.84	6.2	0.641
3	70	19	10.0	1.8	1.52	13.6	29.38	8.9	0.443
3	95	19	11.6	1.8	1.52	15.2	32.83	12.3	0.320
3	120	19	13.0	1.8	1.52	16.6	35.86	15.6	0.253
3	150	19	14.6	1.8	1.52	18.2	39.31	19.2	0.206
2	16	7	4.8	1.2	0.98	7.2	14.4	2.07	1.91
2	25	7	6.0	1.4	1.16	8.8	17.6	3.3	1.20
2	35	7	7.0	1.6	1.34	10.2	20.4	4.5	0.868
2	50	7	8.3	1.6	1.34	11.5	23	6.2	0.641
2	70	19	10.0	1.8	1.52	13.6	27.2	8.9	0.443
2	95	19	11.6	1.8	1.52	15.2	30.4	12.3	0.320
2	120	19	13.0	1.8	1.52	16.6	33.2	15.6	0.253
2	150	19	14.6	1.8	1.52	18.2	36.4	19.2	0.206
1	16	7	4.8	1.2	0.98	7.2	7.2	2.07	1.91
1	25	7	6.0	1.4	1.16	8.8	8.8	3.3	1.20
1	35	7	7.0	1.6	1.34	10.2	10.2	4.5	0.868
1	50	7	8.3	1.6	1.34	11.5	11.5	6.2	0.641
1	70	19	10.0	1.8	1.52	13.6	13.6	8.9	0.443
1	95	19	11.6	1.8	1.52	15.2	15.2	12.3	0.320
1	120	19	13.0	1.8	1.52	16.6	16.6	15.6	0.253
1	150	19	14.6	1.8	1.52	18.2	18.2	19.2	0.206