

Fire Resistant Cable Characteristics

Round 600V (Single Core)

Conductor			Thickness of Fire-resistant Layer (Note)	Thickness of Insulation	Thickness of Sheath	Cable O.D (Approx.)	Max. Conductor Resistance (20℃)	A.C. Test Voltage	Min. Insulation Resistance (20℃)	Standard Length
Nominal Cross Section Area	Number and Nominal Dia.	O.D (Approx)								
mm ²	Num. / mm	mm	mm	mm	mm	mm	Ω/Km	Kv/1min	MΩKm	m
-	1/1.0	1.0	0.4	0.8	1.5	6.4	22.8	1.5	2500	300
-	1/1.2	1.2	0.4	0.8	1.5	6.6	15.8	1.5	2500	300
-	1/1.6	1.6	0.4	0.8	1.5	7.0	8.92	1.5	2500	300
-	1/2.0	2.0	0.4	0.8	1.5	7.4	5.65	1.5	2500	300
-	1/2.6	2.6	0.4	1.0	1.5	8.4	3.35	1.5	2500	300
1.25	7/0.45	1.35	0.4	0.8	1.5	6.8	16.5	1.5	2500	300
2	7/0.6	1.8	0.4	0.8	1.5	7.2	9.24	1.5	2500	300
3.5	7/0.8	2.4	0.4	0.8	1.5	7.8	5.20	1.5	2500	300
5.5	7/1.0	3.0	0.4	1.0	1.5	8.8	3.33	1.5	2500	300
8	7/1.2	3.6	0.4	1.0	1.5	9.4	2.31	1.5	2000	300
	Compressed (Round)	3.4			1.5	9.2	2.29		2000	
14	7/1.6	4.8	0.6	1.0	1.5	11.0	1.30	1.5	1500	300
	Compressed (Round)	4.4			1.5	10.5	1.31		1500	
22	7/2.0	6.0	0.6	1.2	1.5	12.5	0.824	2.0	1500	300
	Compressed (Round)	5.5			1.5	12.0	0.832		1500	
30	7/2.3	6.9	0.6	1.2	1.5	13.5	0.623	2.0	1500	300
	Compressed (Round)	6.5			1.5	13.0	0.610		1500	
38	7/2.6	7.8	0.6	1.2	1.5	14.5	0.487	2.0	1500	300
	Compressed (Round)	7.3			1.5	14.0	0.481		1500	
50	19/1.8	9.0	0.6	1.5	1.5	16.5	0.378	2.5	1500	300
	Compressed (Round)	8.5			1.5	16.0	0.366		1500	
60	19/2.0	10.0	0.6	1.5	1.5	17.0	0.303	2.5	1500	300
	Compressed (Round)	9.3			1.5	16.5	0.305		1500	
80	19/2.3	11.5	0.6	1.5	1.5	19.0	0.229	2.5	1500	300
	Compressed (Round)	10.8			1.5	18.0	0.229		1500	
100	19/2.6	13.0	0.6	2.0	1.5	21.0	0.180	2.5	1500	300
	Compressed (Round)	12.0			1.5	20.0	0.183		1500	
125	19/2.9	14.5	0.6	2.0	1.6	23.0	0.144	3.0	1000	300
	Compressed (Round)	13.5			1.5	22.0	0.146		1000	
150	37/2.3	16.1	0.6	2.0	1.7	25.0	0.118	3.0	900	300
	Compressed (Round)	14.7			1.6	23.0	0.122		1000	
200	37/2.6	18.2	0.6	2.5	1.8	28.0	0.0922	3.0	1000	200
	Compressed (Round)	17.0			1.7	27.0	0.0915		1500	
250	61/2.3	20.7	0.6	2.5	1.9	31.0	0.0722	3.0	900	200
	Compressed (Round)	19.0			1.8	29.0	0.0739		1000	
325	61/2.6	23.4	0.6	2.5	2.0	33.5	0.0565	3.0	800	200
	Compressed (Round)	21.7			1.9	32.0	0.0568		900	
400	61/2.9	26.1	0.6	2.5	2.1	36.5	0.0454	3.0	700	150
	Compressed (Round)	24.1			2.0	34.5	0.0462		800	
500	61/3.2	28.8	0.6	3.0	2.2	40.0	0.0373	3.5	800	150
	Compressed (Round)	26.9			2.2	38.5	0.0369		800	
600	91/2.9	31.9	0.6	3.0	2.4	44.0	0.0304	3.5	700	150
	Compressed (Round)	29.5			2.3	41.5	0.0308		800	
800	127/2.8	36.4	0.6	3.5	2.6	50.0	0.0234	3.5	800	150
	Compressed (Round)	34.0			2.5	48.0	0.0231		800	
1000	127/3.2	41.6	0.6	3.5	2.8	56.0	0.0179	3.5	700	150
	Compressed (Round)	38.0			2.7	52.0	0.0187		700	

Note: Thickness of Fire-Resistant is for reference only, it can be adjusted to follow fire resistant level by manufacturers.