



JIS C 3605 Cables

EV/CV

Application and Description:

For general purpose power distribution in wet or dry locations, installed in air, in conduit or duct, or directly buried.

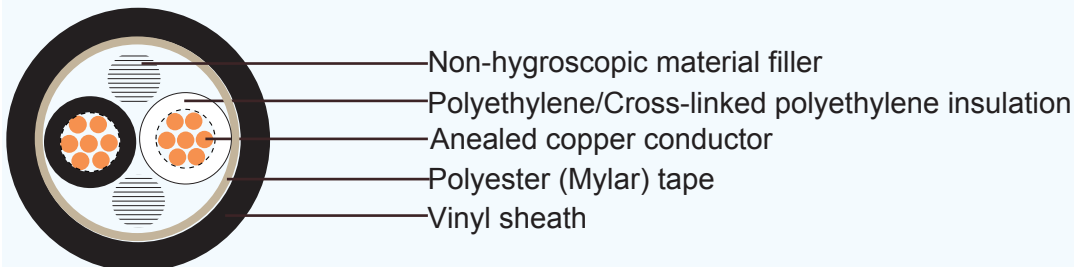
Name Code:

E: Polyethylene

C: Cross-linked polyethylene

V: Vinyl

Cable Construction:



Conductor: Circular, circular or segmental compacted stranded annealed copper wires

Separator: A proper separator may be applied to a conductor

Insulation: Polyethylene/Cross-linked polyethylene

Color : 2 cores- Black and white

3 cores- Black, white and red

4 cores- Black, white, red and green

Filler: Non-hygroscopic material(optional)

Binding tape: Polyester (Mylar) tape (optional)

Sheath: Vinyl, Black color





Technical Characteristics:

Maximum conductor temperature 90°C

Circuit voltage not exceeding 600 volts

Cable Parameter

No. of cores	Nominal sectional area	No. of wire	Diameter of Conductor (approx.)	Thickness of insulation	Thickness of sheath	Overall diameter (approx.)	Maximum DC. resistance of Cdr. at 20°C	Test Voltage	Cable weight (approx.)
	mm ²		mm	mm	mm	mm	Ohm / km	V	kg / km
1	2	7/0.6	1.8	0.8	1.5	6.4	9.24	1500	60
	3.5	7/0.8	2.4	0.8	1.5	7	5.2	1500	80
	5.5	7/1.0	3	1	1.5	8	3.33	1500	115
	8	7/1.2	3.6	1	1.5	8.6	2.31	1500	135
	8	compacted	3.4	1	1.5	8.4	2.29	1500	135
	14	7/1.6	4.8	1	1.5	9.8	1.31	2000	205
	14	compacted	4.4	1	1.5	9.4	1.3	2000	200
	22	7/2.0	6	1.2	1.5	11.5	0.824	2000	300
	22	compacted	5.5	1.2	1.5	11	0.832	2000	290
	38	7/2.6	7.8	1.2	1.5	13.5	0.487	2500	460
	38	compacted	7.3	1.2	1.5	13	0.481	2500	455
	60	19/2.0	10	1.5	1.5	16	0.303	2500	700
	60	compacted	9.3	1.5	1.5	15.5	0.305	2500	685
	100	19/2.6	13	2	1.5	20	0.18	2500	1150
	100	compacted	12	2	1.5	19	0.183	2500	1120
	150	37/2.3	16.1	2	1.5	24.5	0.118	3000	1680
	150	compacted	14.7	2	1.5	22.5	0.122	3000	1600
	200	37/2.6	18.2	2.5	1.7	27.5	0.0922	3000	2150
	200	compacted	17	2.5	1.7	26.5	0.0915	3000	2150
	250	61/2.3	20.7	2.5	1.8	30	0.0722	3000	2740
250	compacted	19	2.5	1.8	28.5	0.0739	3000	2670	
325	61/2.6	23.4	2.5	1.9	33.5	0.0565	3000	3450	
325	compacted	21.7	2.5	1.9	31.5	0.0568	3000	3410	
400	61/2.9	26.1	2.5	2	34.5	0.0373	3000	4230	
400	compacted	24.1	2.5	2	34.5	0.0369	3000	4160	
500	61/3.2	28.8	3	2.1	40	0.0304	3500	5190	





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	mm ²		mm	mm	mm	mm	Ohm / km	V	kg / km
1	500	compacted	26.9	3	2.1	43	0.0308	3500	5090
	600	91/2.9	31.9	3	2.3	41	0.0369	3500	6280
	600	compacted	29.5	3	2.2	38.5	0.0369	3500	6170
	800	127/2.8	36.4	3.5	2.5	49	0.0234	3500	8160
	800	compacted	34	3.5	2.5	47.5	0.0231	3500	8220
	800	segmental	34	3.5	2.5	47.5	0.0231	3500	8220
	1000	127/3.2	41.6	3.5	2.6	54	0.0179	3500	10600
	1000	compacted	38	3.5	2.6	51.5	0.0185	3500	10200
	1000	segmental	38	3.5	2.6	51.5	0.0187	3500	10300
2	2	7/0.6	1.8	0.8	1.5	10.5	9.42	1500	120
	3.5	7/0.8	2.4	0.8	1.5	11.5	5.3	1500	165
	5.5	7/1.0	3	1	1.5	13.5	3.4	1500	235
	8	7/1.2	3.6	1	1.5	15	2.36	1500	300
	8	compacted	3.4	1	1.5	14.5	2.34	1500	290
	14	7/1.6	4.8	1	1.5	17.5	1.33	2000	450
	14	compacted	4.4	1	1.5	16.5	1.34	2000	435
	22	7/2.0	6	1.2	1.5	21	0.84	2000	660
	22	compacted	5.5	1.2	1.5	19.5	0.849	2000	635
	38	7/2.6	7.8	1.2	1.5	24	0.497	2500	1030
	38	compacted	7.3	1.2	1.5	24	0.491	2500	1020
	60	19/2.0	10	1.5	1.5	31	0.309	2500	1620
	60	compacted	9.3	1.5	1.5	29	0.311	2500	1570
	100	19/2.6	13	2	1.5	39	0.184	2500	2690
	100	compacted	12	2	1.5	37	0.187	2500	2580
	150	37/2.3	16.1	2	1.5	46	0.124	3000	3920
	150	compacted	14.7	2	1.5	43	0.12	3000	3710
	200	37/2.6	18.2	2.5	1.7	53	0.094	3000	5060
	200	compacted	17	2.5	1.7	50	0.0933	3000	4980
	250	61/2.3	20.7	2.5	1.8	58	0.0736	3000	6420
250	compacted	19	2.5	1.8	54	0.0754	3000	6140	
325	61/2.6	23.4	2.5	1.9	64	0.0576	3000	8040	
325	compacted	21.7	2.5	1.9	60	0.0579	3000	7820	





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	mm ²		mm	mm	mm	mm	mm	Ohm / km	V
3	2	7/0.6	1.8	0.8	1.5	11	9.42	1500	150
	3.5	7/0.8	2.4	0.8	1.5	12.5	5.3	1500	210
	5.5	7/1.0	3	1	1.5	14.5	3.4	1500	300
	8	7/1.2	3.6	1	1.5	16	2.36	1500	385
	8	compacted	3.4	1	1.5	15.5	2.34	1500	380
	14	7/1.6	4.8	1	1.5	18.5	1.33	2000	600
	14	compacted	4.4	1	1.5	17.5	1.34	2000	585
	22	7/2.0	6	1.2	1.5	22	0.84	2000	890
	22	compacted	5.5	1.2	1.5	21	0.849	2000	860
	38	7/2.6	7.8	1.2	1.5	26	0.497	2500	1410
	38	compacted	7.3	1.2	1.5	25	0.491	2500	1410
	60	19/2.0	10	1.5	1.5	33	0.309	2500	2220
	60	compacted	9.3	1.5	1.5	31	0.311	2500	2170
	100	19/2.6	13	2	1.5	42	0.184	2500	3710
	100	compacted	12	2	1.5	40	0.187	2500	3580
	150	37/2.3	16.1	2	1.5	49	0.124	3000	5440
	150	compacted	14.7	2	1.5	46	0.12	3000	5180
	200	37/2.6	18.2	2.5	1.7	57	0.094	3000	7071
	200	compacted	17	2.5	1.7	54	0.0933	3000	6940
	250	61/2.3	20.7	2.5	1.8	62	0.0736	3000	8940
250	compacted	19	2.5	1.8	58	0.0754	3000	8600	
325	61/2.6	23.4	2.5	1.9	94	0.0576	3000	11300	
325	compacted	21.7	2.5	1.9	65	0.0579	3000	11000	
4	2.5	7/0.6	1.8	0.8	1.5	12	9.42	1500	180
	3.5	7/0.8	2.4	0.8	1.5	13.5	5.3	1500	260
	5.5	7/1.0	3	1	1.5	16	3.4	1500	370
	8	7/1.2	3.6	1	1.5	17	2.36	1500	485
	8	compacted	3.4	1	1.5	16.5	2.34	1500	480
	14	7/1.6	4.8	1	1.5	20	1.33	2000	765
	14	compacted	4.4	1	1.5	19	1.34	2000	745
	22	7/2.0	6	1.2	1.5	24	0.84	2000	1160
	22	compacted	5.5	1.2	1.5	23	0.849	2000	1120
	38	7/2.6	7.8	1.2	1.5	29	0.497	2500	1840





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	mm ²		mm	mm	mm		Ohm / km		
4	38	compacted	7.3	1.2	1.5	28	0.491	2500	1830
	60	19/2.0	10	1.5	1.5	37	0.309	2500	2890
	60	compacted	9.3	1.5	1.5	35	0.311	2500	2830
	100	19/2.6	13	2	1.5	47	0.184	2500	4840
	100	compacted	12	2	1.5	44	0.187	2500	4680
	150	37/2.3	16.1	2	1.5	55	0.124	3000	7120
	150	compacted	14.7	2	1.5	SI	0.12	3000	6790
	200	37/2.6	18.2	2.5	1.7	63	0.094	3000	9170
	200	compacted	17	2.5	1.7	60	0.0933	3000	9100
	250	61/2.3	20.7	2.5	1.8	70	0.0736	3000	11700
	250	compacted	19	2.5	1.8	65	0.0754	3000	11300
	325	61/2.6	23.4	2.5	1.9	77	0.0576	3000	14800
325	compacted	21.7	2.5	1.9	72	0.0579	3000	14500	

