



## EE/F(EM-EE) CE/F(EM-CE)

### Application and Description:

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

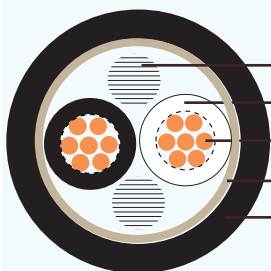
### Name Code:

E: Polyethylene

C: Cross-linked polyethylene

/F: Flame retardant polyethylene

### Cable Construction:



Non-hygroscopic material filler

Polyethylene/Cross-linked polyethylene insulation

Annealed copper conductor

Polyester (Mylar) tape

Flame retardant polyethylene sheath

**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:** Flame retardant polyethylene, 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.)	Test Voltage	Maximum DC. resistance of Cdr. at 20°C	Cable weight (approx.)
	mm <sup>2</sup>		mm	mm	mm	mm	V	Ohm / km	kg / km
1	2	7/0.6	1.8	0.8	1.5	6.4	9.24	1500	55
	3.5	7/0.8	2.4	0.8	1.5	7.0	5.2	1500	75
	5.5	7/1.0	3.0	1.0	1.5	8.0	3.33	1500	105
	8	7/1.2	3.6	1.0	1.5	8.6	2.31	1500	130
	8	compacted	3.4	1.0	1.5	8.4	2.29	1500	130
	14	7/1.6	4.8	1.0	1.5	9.8	1.31	2000	200
	14	compacted	4.4	1.0	1.5	9.4	1.30	2000	195
	22	7/2.0	6.0	1.2	1.5	11.5	0.824	2000	290
	22	compacted	5.5	1.2	1.5	11.0	0.832	2000	280
	38	7/2.6	7.8	1.2	1.5	13.5	0.487	2500	450
	38	compacted	7.3	1.2	1.5	13.0	0.481	2500	445
	60	19/2.0	10.0	1.5	1.5	16.0	0.303	2500	690
	60	compacted	9.3	1.5	1.5	15.5	0.305	2500	675
	100	19/2.6	13.0	2.0	1.5	20.0	0.180	2500	1130
	100	compacted	12.0	2.0	1.5	19.0	0.183	2500	1100
	150	37/2.3	16.1	2.0	1.5	24.5	0.118	3000	1660
	150	compacted	14.7	2.0	1.5	22.5	0.122	3000	1590
	200	37/2.6	18.2	2.5	1.7	27.5	0.0922	3000	2120
	200	compacted	17.0	2.5	1.7	26.5	0.0915	3000	2130
	250	61/2.3	20.7	2.5	1.8	30.0	0.0722	3000	2710
	250	compacted	19.0	2.5	1.8	28.5	0.0739	3000	2640
	325	61/2.6	23.4	2.5	1.9	33.5	0.0565	3000	3420
	325	compacted	21.7	2.5	1.9	31.5	0.0568	3000	3380
	400	61/2.9	26.1	2.5	2.0	34.5	0.0373	3000	4200
	400	compacted	24.1	2.5	2.0	34.5	0.0369	3000	4130
	500	61/3.2	28.8	3.0	2.1	40.0	0.0304	3500	5150
	500	compacted	26.9	3.0	2.1	43.0	0.0308	3500	5160
	600	91/2.9	31.9	3.0	2.3	41.0	0.0369	3500	6230
600	compacted	29.5	3.0	2.2	38.5	0.0369	3500	6130	
800	127/2.8	36.4	3.5	2.5	49	0.0234	3500	8100	
800	compacted	34.0	3.5	2.5	47.5	0.0231	3500	8150	





No. of cores	Nominal sectional area	No. of wire	Diameter of Conductor (approx.)	Thickness of insulation	Thickness of sheath	Overall diameter (approx.)	Test Voltage	Maximum DC. resistance of Cdr. at 20°C	Cable weight (approx.)
	mm <sup>2</sup>		mm	mm	mm	mm	V	Ohm / km	kg / km
1	800	segmental compacted	34.0	3.5	2.5	47.5	0.0231	3500	8150
	1000	127/3.2	41.6	3.5	2.6	54.0	0.0179	3500	10500
	1000	compacted	38.0	3.5	2.6	51.5	0.0185	3500	10200
	1000	segmental compacted	38.0	3.5	2.6	51.5	0.0187	3500	10100
2	2	7/0.6	1.8	0.8	1.5	10.5	9.42	1500	115
	3.5	7/0.8	2.4	0.8	1.5	11.5	5.3	1500	160
	5.5	7/1.0	3.0	1.0	1.5	13.5	3.4	1500	225
	8	7/1.2	3.6	1.0	1.5	15.0	2.36	1500	290
	8	compacted	3.4	1.0	1.5	14.5	2.34	1500	280
	14	7/1.6	4.8	1.0	1.5	17.5	1.33	2000	440
	14	compacted	4.4	1.0	1.5	16.5	1.34	2000	425
	22	7/2.0	6.0	1.2	1.5	21.0	0.840	2000	650
	22	compacted	5.5	1.2	1.5	19.5	0.849	2000	620
	38	7/2.6	7.8	1.2	1.5	24.0	0.497	2500	1010
	38	compacted	7.3	1.2	1.5	24.0	0.491	2500	990
	60	19/2.0	10.0	1.5	1.5	31.0	0.309	2500	1590
	60	compacted	9.3	1.5	1.5	29.0	0.311	2500	1540
	100	19/2.6	13.0	2.0	1.5	39.0	0.184	2500	2650
	100	compacted	12.0	2.0	1.5	37.0	0.187	2500	2540
	150	37/2.3	16.1	2.0	1.5	46.0	0.124	3000	3860
	150	compacted	14.7	2.0	1.5	43.0	0.120	3000	3660
	200	37/2.6	18.2	2.5	1.7	53.0	0.0940	3000	4980
	200	compacted	17.0	2.5	1.7	50.0	0.0933	3000	4910
	250	61/2.3	20.7	2.5	1.8	58.0	0.0736	3000	6320
250	compacted	19.0	2.5	1.8	54.0	0.0754	3000	6040	
325	61/2.6	23.4	2.5	1.9	64.0	0.0576	3000	7930	
325	compacted	21.7	2.5	1.9	60.0	0.0579	3000	7730	
3	2	7/0.6	1.8	0.8	1.5	11.0	9.42	1500	140
	3.5	7/0.8	2.4	0.8	1.5	12.5	5.3	1500	200
	5.5	7/1.0	3.0	1.0	1.5	14.5	3.4	1500	290
	8	7/1.2	3.6	1.0	1.5	16.0	2.36	1500	380
	8	compacted	3.4	1.0	1.5	15.5	2.34	1500	370
	14	7/1.6	4.8	1.0	1.5	18.5	1.33	2000	585





No. of cores	Nominal sectional area	No. of wire	Diameter of Conductor (approx.)	Thickness of insulation	Thickness of sheath	Overall diameter (approx.)	Test Voltage	Maximum DC. resistance of Cdr. at 20°C	Cable weight (approx.)
	mm <sup>2</sup>		mm	mm	mm			Ohm / km	
3	14	compactcd	4.4	1.0	1.5	17.5	1.34	2000	570
	22	7/2.0	6.0	1.2	1.5	22.0	0.840	2000	875
	22	compactcd	5.5	1.2	1.5	21.0	0.849	2000	845
	38	7/2.6	7.8	1.2	1.5	26.0	0.497	2500	1390
	38	compactcd	7.3	1.2	1.5	25.0	0.491	2500	1380
	60	19/2.0	10.0	1.5	1.5	33.0	0.309	2500	2180
	60	compactcd	9.3	1.5	1.5	31.0	0.311	2500	2140
	100	19/2.6	13.0	2.0	1.5	42.0	0.184	2500	3670
	100	compactcd	12.0	2.0	1.5	40.0	0.187	2500	3540
	150	37/2.3	16.1	2.0	1.5	49.0	0.124	3000	5390
	150	compactcd	14.7	2.0	1.5	46.0	0.120	3000	5120
	200	37/2.6	18.2	2.5	1.7	57.0	0.0940	3000	6920
	200	compactcd	17.0	2.5	1.7	54.0	0.0933	3000	6860
	250	61/2.3	20.7	2.5	1.8	62.0	0.0736	3000	8810
	250	compactcd	19.0	2.5	1.8	58.0	0.0754	3000	8500
	325	61/2.6	23.4	2.5	1.9	94.0	0.0576	3000	11200
325	compactcd	21.7	2.5	1.9	65.0	0.0579	3000	10900	
4	2.5	7/0.6	1.8	0.8	1.5	12.0	9.42	1500	170
	3.5	7/0.8	2.4	0.8	1.5	13.5	5.3	1500	250
	5.5	7/1.0	3.0	1.0	1.5	16.0	3.4	1500	360
	8	7/1.2	3.6	1.0	1.5	17.0	2.36	1500	475
	8	compactcd	3.4	1.0	1.5	16.5	2.34	1500	465
	14	7/1.6	4.8	1.0	1.5	20.0	1.33	2000	750
	14	compactcd	4.4	1.0	1.5	19.0	1.34	2000	730
	22	7/2.0	6.0	1.2	1.5	24	0.840	2000	1140
	22	compactcd	5.5	1.2	1.5	23	0.849	2000	1100
	38	7/2.6	7.8	1.2	1.5	29	0.497	2500	1810
	38	compactcd	7.3	1.2	1.5	28	0.491	2500	1800
	60	19/2.0	10.0	1.5	1.5	37	0.309	2500	2860
	60	compactcd	9.3	1.5	1.5	35	0.311	2500	2790
	100	19/2.6	13.0	2.0	1.5	47	0.184	2500	4790
100	compactcd	12.0	2.0	1.5	44	0.187	2500	4630	
150	37/2.3	16.1	2.0	1.5	55	0.124	3000	7050	





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	mm <sup>2</sup>		mm	mm	mm			V	
4	150	compacted	14.7	2.0	1.5	SI	0.120	3000	6710
	200	37/2.6	18.2	2.5	1.7	63	0.0940	3000	9070
	200	compacted	17.0	2.5	1.7	60	0.0933	3000	8990
	250	61/2.3	20.7	2.5	1.8	70	0.0736	3000	11600
	250	compacted	19.0	2.5	1.8	65	0.0754	3000	11200
	325	61/2.6	23.4	2.5	1.9	77	0.0576	3000	14600
	325	compacted	21.7	2.5	1.9	72	0.0579	3000	14300

