



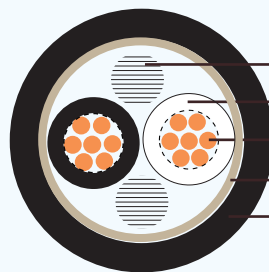
## CCE/F(EM-CCE)

### Application and Description:

For supervisory electrical equipment, station control circuits, outdoor, suitable installation in dry or wet cable trenches.

### Name Code:

- C: For control
- C: Cross polyethylene
- E: Polyethylene
- /F: Flame retardant



- Non-hygroscopic material filler
- Cross-linked polyethylene insulation
- Anealed copper conductor
- Polyester (Mylar) tape
- Flame retardant polyethylene sheath

### Cable Construction:

**Conductor:** Circular or compacted circular stranded annealed copper wires

**Separator:** A proper separator may be applied to a conductor

**Insulation:** Cross-linked polyethylene

**Color :**

- 2 cores- Black and white
- 3 cores- Black, white and red
- 4 cores- Black, white, red and green
- More than 4 cores: Black core with marking numbers

**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
- Test voltage 2000 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	Cable weight (approx.)
	mm <sup>2</sup>		mm	mm	mm	mm	Ohm / km	kg / km
2	1.25	7/0.45	1.35	0.8	1.5	9.4	16.8	90
	2	7/0.6	1.8	0.8	1.5	10.5	9.42	115
	3.5	7/0.8	2.4	0.8	1.5	11.5	5.3	160
	5.5	7/1.0	3	1	1.5	13.5	3.4	225
	8	7/1.2	3.6	1	1.5	15	2.36	290
	8	compacted	3.4	1	1.5	14.5	2.34	280
	14	7/1.6	4.8	1	1.5	17.5	1.33	440
	14	compacted	4.4	1	1.5	16.5	1.34	425
	22	7/2.0	6	1.2	1.5	20	0.84	650
	22	compacted	5.5		1.5	19.5	0.849	620
3	1.25	7/0.45	1.35	0.8	1.5	9.9	16.8	105
	2	7/0.6	1.8	0.8	1.5	11	9.42	140
	3.5	7/0.8	2.4	0.8	1.5	12.5	5.3	200
	5.5	7/1.0	3	1	1.5	14.5	3.4	290
	8	7/1.2	3.6	1	1.5	16	2.36	380
	8	compacted	3.4	1	1.5	15.5	2.34	370
	14	7/1.6	4.8	1	1.5	18.5	1.33	585
	14	compacted	4.4	1	1.5	17.5	1.34	570
	22	7/2.0	6	1.2	1.5	22	0.84	875
	22	compacted	5.5	1.2	1.5	21	0.849	845
4	1.25	7/0.45	1.35	0.8	1.5	11	16.8	125
	2	7/0.6	1.8	0.8	1.5	12	9.42	175
	3.5	7/0.8	2.4	0.8	1.5	13.5	5.3	250
	5.5	7/1.0	3	1	1.5	16	3.4	360
	8	41832	3.6	1	1.5	17	2.36	475
	8	compacted	3.4	1	1.5	16.5	2.34	465
	14	7/1.6	4.8	1	1.5	20	1.33	750
	14	compacted	4.4	1	1.5	19	1.34	730
	22	7/2.0	6	1.2	1.6	24	0.84	1140
	22	compacted	5.5	1.2	1.6	23	0.849	1110





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	Cable weight (approx.)
	mm <sup>2</sup>		mm	mm	mm		mm	
5	1.25	7/0.45	1.35	0.8	1.5	11.5	16.8	150
	2	7/0.6	1.8	0.8	1.5	13	9.42	205
	3.5	7/0.8	2.4	0.8	1.5	14.5	5.3	300
	5.5	7/1.0	3	1	1.5	17	3.4	440
	8	7/ 1.2	3.6	1	1.5	19	2.36	580
		compacted	3.4	1	1.5	18.5	2.34	570
	14	7/1.6	4.8	1	1.6	23	1.33	930
	compacted	4.4	1	1.5	21	1.34	900	
6	1.25	7/0.45	1.35	0.8	1.5	12.5	16.8	175
	2	7/0.6	1.8	0.8	1.5	14	9.42	240
	3.5	7/0.8	2.4	0.8	1.5	15.5	5.3	355
	5.5	7/1.0	3	1	1.5	18.5	3.4	520
	8	7/1.2	3.6	1	1.5	21	2.36	690
	8	compacted	3.4	1	1.5	20	2.34	675
	14	7/1.6	4.8	1	1.6	25	1.33	1110
	14	compacted	4.4	1	1.6	23	1.34	1080
7	1.25	7/0.45	1.35	0.8	1.5	12.5	16.8	185
	2	7/0.6	1.8	0.8	1.5	14	9.42	260
	3.5	7/0.8	2.4	0.8	1.5	15.5	5.3	385
	5.5	7/ 1.0	3	1	1.5	18.5	3.4	570
	8	7/1.2	3.6	1	1.5	21	2.36	765
	8	compacted	3.4	1	1.5	20	2.34	750
8	1.25	7/0.45	1.35	0.8	1.5	13.5	16.8	210
	2	7/0.6	1.8	0.8	1.5	15	9.42	295
	3.5	7/0.8	2.4	0.8	1.5	17	5.3	440
	5.5	7/1.0	3	1	1.5	20	3.4	655
	8	7/ 1.2	3.6	1	1.6	23	2.36	885
	8	compacted	3.4	1	1.5	22	2.34	855





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	Cable weight (approx.)
	mm <sup>2</sup>		mm	mm	mm	mm	Ohm / km	kg / km
10	1.25	7/0.45	1.35	0.8	1.5	15.5	16.8	265
	2	7/0.6	1.8	0.8	1.5	17.5	9.42	375
	3.5	7/0.8	2.4	0.8	1.5	19.5	5.3	560
	5.5	7/1.0	3	1	1.6	24	3.4	845
	8	7/ 1.2	3.6	1	1.7	27	2.36	1150
	8	compacted	3.4	1	1.7	26	2.34	1120
12	1.25	7/0.45	1.35	0.8	1.5	16	16.8	300
	2	7/0.6	1.8	0.8	1.5	18	9.42	425
	3.5	7/0.8	2.4	0.8	1.5	21	5.3	640
	5.5	7/1.0	3	1	1.7	25	3.4	980
	8	7/ 1.2	3.6	1	1.8	28	2.36	1330
	8	compacted	3.4	1	1.7	27	2.34	1290
15	1.25	7/ 0.45	1.35	0.8	1.5	17	16.8	355
	2	7/0.6	1.8	0.8	1.5	19.0	9.42	510
	3.5	7/0.8	2.4	0.8	1.5	22	5.3	775
	5.5	7/1.0	3	1.0	1.7	27	3.4	1190
20	1.25	7/0.45	1.35	0.8	1.5	19	16.8	445
	2	7/0.6	1.8	0.8	1.5	22	9.42	655
	3.5	7/0.8	2.4	0.8	1.6	25	5.3	1010
	5.5	7/ 1.0	3	1	1.9	3J	3.4	1560
30	1.25	7/0.45	1.35	0.8	1.6	23	16.8	650
	2	7/0.6	1.8	0.8	1.7	26	9.42	970
	3.5	7/0.8	2.4	0.8	1.8	30	5.3	1510

