



## CCES

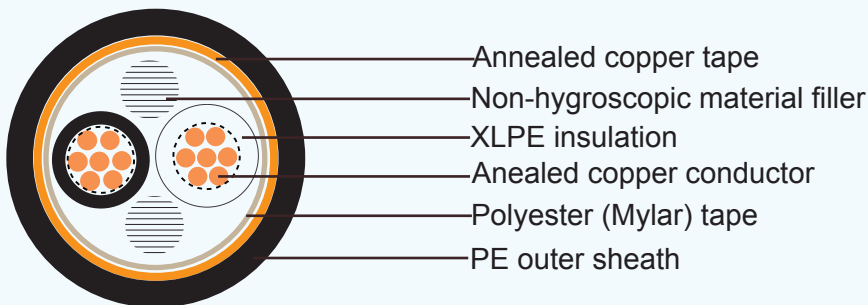
### Application and Description:

For used in control circuits required electrostatic shielding in underground duct, conduit and open air.

### Reference Standard:

IEC 60502-1

### Cable Construction:



Conductor: Stranded annealed copper wires, Sizes: 1.5 mm<sup>2</sup> up to 10 mm<sup>2</sup>

Insulation: Cross-linked polyethylene(XLPE)

Color : 2-4 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)

Shield: Annealed copper tape, 0.1mm

Outer sheath: Polyethylene(PE), Black color (A special flame retardant can be supplied)

### Technical Characteristics:

Maximum conductor temperature 90°C

Circuit voltage not exceeding 600 volts

Test voltage 3500 volts



## Cable Parameter:

NO. of Cores	Conductor			Thickness of insulation	Thickness of outer Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter					
	mm <sup>2</sup>	mm	mm					
2	1.5	7 / 0.53	1.59	0.8	1.8	11.4	12.1	148
	2.5	7 / 0.67	2.01	0.8	1.8	12.3	7.41	173
	4	7 / 0.85	2.55	1.0	1.8	14.2	4.61	237
	6	7 / 1.04	3.12	1.0	1.8	15.4	3.08	290
	10	7 / 1.35	4.05	1.0	1.8	16.9	1.83	343
3	1.5	7 / 0.53	1.59	0.8	1.8	11.9	12.1	169
	2.5	7 / 0.67	2.01	0.8	1.8	12.9	7.41	214
	4	7 / 0.85	2.55	1.0	1.8	15.0	4.61	301
	6	7 / 1.04	3.12	1.0	1.8	16.2	3.08	375
	10	7 / 1.35	4.05	1.0	1.8	17.9	1.83	457
4	1.5	7 / 0.53	1.59	0.8	1.8	12.8	12.1	197
	2.5	7 / 0.67	2.01	0.8	1.8	13.9	7.41	245
	4	7 / 0.85	2.55	1.0	1.8	16.2	4.61	345
	6	7 / 1.04	3.12	1.0	1.8	17.6	3.08	433
	10	7 / 1.35	4.05	1.0	1.8	19.5	1.83	575
5	1.5	7 / 0.53	1.59	0.8	1.8	13.8	12.1	227
	2.5	7 / 0.67	2.01	0.8	1.8	15.0	7.41	287
	4	7 / 0.85	2.55	1.0	1.8	17.3	4.61	410
	6	7 / 1.04	3.12	1.0	1.8	19.2	3.08	526
	10	7 / 1.35	4.05	1.0	1.8	21.4	1.83	690
6	1.5	7 / 0.53	1.59	0.8	1.8	14.8	12.1	248
	2.5	7 / 0.67	2.01	0.8	1.8	16.1	7.41	322
	4	7 / 0.85	2.55	1.0	1.8	19.0	4.61	486
	6	7 / 1.04	3.12	1.0	1.8	20.8	3.08	614
	10	7 / 1.35	4.05	1.0	1.8	23.2	1.83	838





# Caledonian

Any inquiries, please feel free to contact  
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NO. of Cores	Conductor			Thickness of insulation	Thickness of outer Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter					
	mm <sup>2</sup>	mm	mm					
7	1.5	7 / 0.53	1.59	0.8	1.8	14.8	12.1	279
	2.5	7 / 0.67	2.01	0.8	1.8	16.1	7.41	362
	4	7 / 0.85	2.55	1.0	1.8	19.0	4.61	543
	6	7 / 1.04	3.12	1.0	1.8	20.8	3.08	710
	10	7 / 1.35	4.05	1.0	1.8	23.2	1.83	972
8	1.5	7 / 0.53	1.59	0.8	1.8	15.8	12.1	312
	2.5	7 / 0.67	2.01	0.8	1.8	17.3	7.41	408
	4	7 / 0.85	2.55	1.0	1.8	20.5	4.61	608
	6	7 / 1.04	3.12	1.0	1.8	21.7	3.08	789
	10	7 / 1.35	4.05	1.0	1.8	24.5	1.83	1074
10	1.5	7 / 0.53	1.59	0.8	1.8	18.2	12.1	408
	2.5	7 / 0.67	2.01	0.8	1.8	19.9	7.41	532
	4	7 / 0.85	2.55	1.0	1.8	23.8	4.61	792
	6	7 / 1.04	3.12	1.0	1.8	22.4	3.08	1019
	10	7 / 1.35	4.05	1.0	1.8	29.6	1.83	1392
12	1.5	7 / 0.53	1.59	0.8	1.8	18.7	12.1	462
	2.5	7 / 0.67	2.01	0.8	1.8	20.5	7.41	597
	4	7 / 0.85	2.55	1.0	1.8	24.6	4.61	898
	6	7 / 1.04	3.12	1.0	1.8	27.0	3.08	1176
	10	7 / 1.35	4.05	1.0	1.8	30.5	1.83	1629
15	1.5	7 / 0.53	1.59	0.8	1.8	20.0	12.1	537
	2.5	7 / 0.67	2.01	0.8	1.8	22.1	7.41	717
	4	7 / 0.85	2.55	1.0	1.8	26.4	4.61	1066
	6	7 / 1.04	3.12	1.0	1.8	29.1	3.08	1402
20	1.5	7 / 0.53	1.59	0.8	1.8	22.1	12.1	646
	2.5	7 / 0.67	2.01	0.8	1.8	24.5	7.41	871
	4	7 / 0.85	2.55	1.0	1.8	29.5	4.61	1367
	6	7 / 1.04	3.12	1.0	1.8	32.5	3.08	1826
30	1.5	7 / 0.53	1.59	0.8	1.8	26.3	12.1	942
	2.5	7 / 0.67	2.01	0.8	1.8	28.2	7.41	1242
	4	7 / 0.85	2.55	1.0	1.9	35.6	4.61	1964

