CV

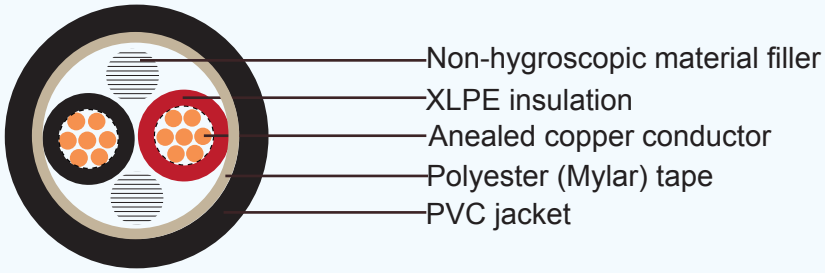
Application and Description:

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

Reference Standard:

IEC 60502-1

Cable Construction:



Conductor: Circle or circle compacted stranded annealed copper wires
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)
Sheath: Polyvinyl chloride (PVC), Black color.(A special flame retardant sheath can be supplied).

Technical Characteristics:

Maximum conductor temperature 90°C
Circuit voltage not exceeding 600 volts
Test voltage 3500 volts

Cable Parameter

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.)
mm²		mm	mm	mm	mm	Ohm / km	kg / km
1 core							
1.5	7/0.53	1.59	0.7	1.4	6.3	12.1	50
2.5	7/0.67	2.01	0.7	1.4	6.7	7.41	70
4	7/0.85	2.55	0.7	1.4	7.2	4.61	90
6	7/1.04	3.12	0.7	1.4	7.8	3.08	110
10	7/1.35	4.05	0.7	1.4	9.4	1.83	170
16	compacted	4.7	0.7	1.4	10.0	1.15	210
25	compacted	5.9	0.9	1.4	12.0	0.727	310
35	compacted	6.9	0.9	1.4	13.0	0.524	400
50	compacted	8.1	1.0	1.4	14.5	0.387	520
70	compacted	9.8	1.1	1.4	16.0	0.268	720
95	compacted	11.4	1.1	1.5	18.5	0.193	970
120	compacted	12.9	1.2	1.5	20	0.153	1,210
150	compacted	14.4	1.4	1.6	22	0.124	1,490
185	compacted	15.9	1.6	1.6	24	0.0991	1,840
240	compacted	18.3	1.7	1.7	27	0.0754	2,400
300	compacted	20.5	1.8	1.8	30	0.0601	2,980
400	compacted	23.2	2.0	1.9	34	0.0470	3,800
500	compacted	26.4	2.2	2.0	37	0.0366	4,850
630	compacted	30.2	2.4	2.2	42	0.0283	6,240
2 cores							
1.5	7/0.53	1.59	0.7	1.8	11.0	12.1	120
2.5	7/0.67	2.01	0.7	1.8	12.0	7.41	150
4	7/0.85	2.55	0.7	1.8	13.0	4.61	190
6	7/1.04	3.12	0.7	1.8	14.0	3.08	240
10	7/1.35	4.05	0.7	1.8	17.0	1.83	330
16	compacted	4.7	0.7	1.8	18.5	1.15	450
25	compacted	5.9	0.9	1.8	22.0	0.727	660
35	compacted	6.9	0.9	1.8	24.0	0.524	880
50	compacted	8.1	1.0	1.8	27	0.387	1,150

Caledonian Cables Manufacture

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.)
mm²		mm	mm	mm	mm	Ohm / km	kg / km
70	compacted	9.8	1.1	1.8	31	0.268	1,610
95	compacted	11.4	1.1	1.9	35	0.193	2,170
120	compacted	12.9	1.2	2.0	38	0.153	2,670
150	compacted	14.4	1.4	2.2	43	0.124	3,310
185	compacted	15.9	1.6	2.3	47	0.0991	4,110
240	compacted	18.3	1.7	2.5	53	0.0754	5,340
300	compacted	20.5	1.8	2.6	58	0.0601	6,630
3 cores							
1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	150
2.5	7/0.67	2.01	0.7	1.8	12.5	7.41	180
4	7/0.85	2.55	0.7	1.8	13.5	4.61	240
6	7/1.04	3.12	0.7	1.8	14.5	3.08	310
10	7/1.35	4.05	0.7	1.8	18.0	1.83	450
16	compacted	4.7	0.7	1.8	19.5	1.15	610
25	compacted	5.9	0.9	1.8	23	0.727	900
35	compacted	6.9	0.9	1.8	25	0.524	1,210
50	compacted	8.1	1.0	1.8	29	0.387	1,560
70	compacted	9.8	1.1	1.9	33	0.268	2,200
95	compacted	11.4	1.1	2.0	37	0.193	2,970
120	compacted	12.9	1.2	2.1	41	0.153	3,790
150	compacted	14.4	1.4	2.3	46	0.124	4,670
185	compacted	15.9	1.6	2.4	50	0.0991	5,830
240	compacted	18.3	1.7	2.6	57	0.0754	7,580
300	compacted	20.5	1.8	2.7	62	0.0601	9,400
4 cores							
1.5	7/0.53	1.59	0.7	1.8	12.5	12.1	170
2.5	7/0.67	2.01	0.7	1.8	13.5	7.41	220
4	7/0.85	2.55	0.7	1.8	14.5	4.61	290
6	7/1.04	3.12	0.7	1.8	16.0	3.08	380
10	7/1.35	4.05	0.7	1.8	20	1.83	570
16	compacted	4.7	0.7	1.8	22	1.15	790
25	compacted	5.9	0.9	1.8	26	0.727	1,180

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.)
mm²		mm	mm	mm	mm	Ohm / km	kg / km
35	compacted	6.9	0.9	1.8	28	0.524	1,550
50	compacted	8.1	1.0	1.9	32	0.387	2,060
70	compacted	9.8	1.1	2.0	36	0.268	2,930
95	compacted	11.4	1.1	2.1	42	0.193	3,970
120	compacted	12.9	1.2	2.3	46	0.153	4,980
150	compacted	14.4	1.4	2.4	51	0.124	6,130
185	compacted	15.9	1.6	2.6	56	0.0991	7,660
240	compacted	18.3	1.7	2.8	63	0.0754	9,960
300	compacted	20.5	1.8	3.0	70	0.0601	12,380