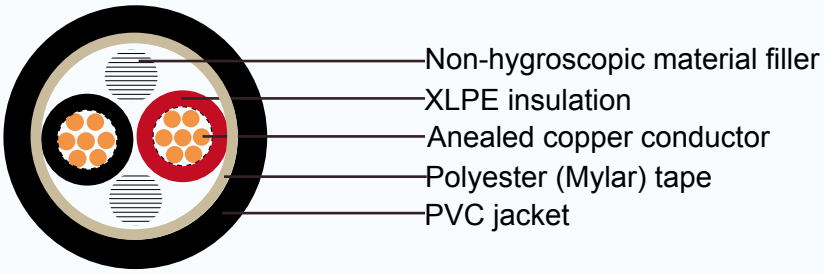
CV

Application and Description:

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

Cable Construction:



Conductor: Concentric solid or 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

Technical Characteristics:

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

2.5-6mm^2	1500 volts
10-25mm^2	2000 volts
35-70mm^2	2500 volts
95-400mm^2	3000 volts
500mm^2	3500 volts (JIS)

Cable Parameter

Cables to IEC 60502-1

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	Minimum insulation resistance at 20°C	ampacities in free air at 40°C ambient	Cable weight (approx.)
	mm²		mm	mm	mm	mm	Ohm / km	MOhm/km	A	kg / km
1	1.5	1	1.38	0.7	1.4	7	12.1	850	29	44
	1.5	7	1.56	0.7	1.4	7	12.1	850	29	46
	2.5	1	1.78	0.7	1.4	7	7.41	700	39	56
	2.5	7	2.01	0.7	1.4	8	7.41	700	39	58
	4	1	2.25	0.7	1.4	8	4.61	580	51	73
	4	7	2.55	0.7	1.4	8	4.61	580	51	76
	6	7	3.12	0.7	1.4	9	3.08	490	65	99
	10	7	3.71	0.7	1.4	9	1.83	425	88	135
	16	7	4.66	0.7	1.4	10	1.15	350	117	193
	25	7	5.86	0.9	1.4	12	0.727	355	157	290
	35	7	6.9	0.9	1.4	13	0.524	305	193	382
	50	7	7.95	1	1.4	14	0.387	285	232	502
	70	18	9.7	1.1	1.4	16	0.268	270	292	707
	95	18	11.4	1.1	1.5	18	0.193	235	359	959
	120	18	12.9	1.2	1.5	20	0.153	225	418	1194
	150	34	14.45	1.4	1.6	22	0.124	240	480	1474
	185	34	15.95	1.6	1.7	24	0.0991	240	554	1836
	240	34	18.4	1.7	1.8	27	0.0754	225	658	2386
	300	55	20.75	1.8	1.9	30	0.0601	210	760	2977
	400	55	23.4	2	2	33	0.047	200	893	3781
	500	55	26.61	2.2	2.1	37	0.0366	200	1034	4824
	630	55	29.95	2.4	2.2	41	0.0283	200	1194	6195

Caledonian Cables Manufacture

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	Minimum insulation resistance at 20°C	ampacities in free air at 40°C ambient	Cable weight (approx.)
	mm²		mm	mm	mm	mm	Ohm / km	MOhm/km	A	kg / km
2	1.5	1	1.38	0.7	1.8	12	12.1	850	27	99
	1.5	7	1.56	0.7	1.8	12	12.1	850	27	116
	2.5	1	1.78	0.7	1.8	13	7.41	700	32	140
	2.5	7	2.01	0.7	1.8	13	7.41	700	32	146
	4	1	2.25	0.7	1.8	14	4.61	580	42	180
	4	7	2.55	0.7	1.8	14	4.61	580	42	189
	6	7	3.12	0.7	1.8	15	3.08	490	56	242
	10	7	3.71	0.7	1.8	17	1.83	425	75	321
	16	7	4.66	0.7	1.8	18	1.15	350	98	452
	25	7	5.86	0.9	1.8	22	0.727	355	131	671
	35	7	6.9	0.9	1.8	24	0.524	305	156	876
	50	7	7.95	1	1.8	26	0.387	285	198	1142
	70	18	9.7	1.1	1.9	31	0.268	270	240	1612
	95	18	11.4	1.1	2	35	0.193	235	289	2180
	120	18	12.9	1.2	2.1	38	0.153	225	340	2719
	150	34	14.45	1.4	2.2	42	0.124	240	380	3350
	185	34	15.95	1.6	2.4	47	0.0991	240	490	4168
	240	34	18.4	1.7	2.6	52	0.0754	225	546	5412
	300	55	20.75	1.8	2.7	58	0.0601	210	630	6,722
	400	55	23.4	2	3	64	0.0470	200	780	8,557
	500	55	26.61	2.2	3.2	72	0.0366	200	969	10903
	630	55	29.95	2.4	3.5	80	0.0283	200	1070	13987

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	Minimum insulation resistance at 20°C	ampacities in free air at 40°C ambient	Cable weight (approx.)
	mm²		mm	mm	mm	mm	Ohm / km	MOhm/km	A	kg / km
3	1.5	1	1.38	0.7	1.8	12	12.1	850	22	133
	1.5	7	1.56	0.7	1.8	13	12.1	850	22	138
	2.5	1	1.78	0.7	1.8	13	7.41	700	29	171
	2.5	7	2.01	0.7	1.8	14	7.41	700	29	179
	4	1	2.25	0.7	1.8	14	4.61	580	38	226
	4	7	2.55	0.7	1.8	15	4.61	580	38	236
	6	7	3.12	0.7	1.8	16	3.08	490	48	309
	10	7	3.72	0.7	1.8	17	1.83	425	66	421
	16	7	4.69	0.7	1.8	19	1.15	350	88	605
	25	7	5.90	0.9	1.8	23	0.727	355	119	911
	35	7	6.95	0.9	1.8	25	0.524	305	147	1204
	50	7	8.00	1	1.8	28	0.387	285	177	1582
	70	18	9.73	1.1	1.9	33	0.268	270	224	2260
	95	18	11.45	1.1	2.1	37	0.193	235	275	3068
	120	18	12.95	1.2	2.2	41	0.153	225	320	3835
	150	18	14.27	1.4	2.3	45	0.124	240	366	4726
	185	34	15.98	1.6	2.5	50	0.0991	240	422	5889
	240	34	18.47	1.7	2.7	56	0.0754	225	497	7658
	300	34	20.68	1.8	2.9	62	0.0601	210	568	9558
	400	55	23.39	2	3.2	69	0.0470	200	658	12170
	500	55	26.67	2.2	3.4	77	0.0366	200	748	15524
	630	55	30.00	2.4	3.7	86	0.0283	200	843	19946

Caledonian Cables Manufacture

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	Minimum insulation resistance at 20°C	ampacities in free air at 40°C ambient	Cable weight (approx.)
	mm²		mm	mm	mm	mm	Ohm / km	MOhm/km	A	kg / km
4	1.5	1	1.38	0.7	1.8	13	12.1	850	22	157
	1.5	7	1.56	0.7	1.8	13	12.1	850	22	164
	2.5	1	1.78	0.7	1.8	14	7.41	700	29	207
	2.5	7	2.01	0.7	1.8	15	7.41	700	29	216
	4	1	2.25	0.7	1.8	15	4.61	580	38	278
	4	7	2.55	0.7	1.8	16	4.61	580	38	290
	6	7	3.12	0.7	1.8	17	3.08	490	48	384
	10	7	3.72	0.7	1.8	19	1.83	425	66	530
	16	7	4.69	0.7	1.8	21	1.15	350	88	771
	25	7	5.90	0.9	1.8	25	0.727	355	119	1170
	35	7	6.95	0.9	1.8	28	0.524	305	147	1554
	50	7	8.00	1	1.9	31	0.387	285	177	2063
	70	18	9.73	1.1	2.1	36	0.268	270	224	2964
	95	18	11.45	1.1	2.2	41	0.193	235	275	4009
	120	18	12.95	1.2	2.3	45	0.153	225	320	5016
	150	18	14.27	1.4	2.5	50	0.124	240	366	6206
	180	34	15.98	1.6	2.7	55	0.0991	240	422	7731
	240	34	18.47	1.7	2.9	62	0.0754	225	497	10058
	300	34	20.68	1.8	3.1	68	0.0601	210	568	12553
	400	55	23.39	2	3.4	76	0.0470	200	658	15984
	500	55	26.67	2.2	3.7	86	0.0366	200	748	20433
	630	55	30.00	2.4	4	95	0.0283	200	843	26256

Cables to JIS C 3605

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	Minimum insulation resistance at 20°C	ampacities in free air at 40°C ambient	Cable weight (approx.)
	mm²		mm	mm	mm	mm	Ohm / km	MOhm/km	A	kg / km
1	2.5	1	1.78	0.72	1.35	7	7.41	2500	39	55
	2.5	7	2.01	0.72	1.35	8	7.41	2500	39	57
	4	1	2.25	0.72	1.35	8	4.61	2500	51	72
	4	7	2.55	0.72	1.35	8	4.61	2500	51	75
	6	7	3.12	0.9	1.35	9	3.08	2500	65	103
	10	7	3.71	0.9	1.35	10	1.83	2000	88	139
	16	7	4.66	0.9	1.35	11	1.15	1500	117	198
	25	7	5.86	1.08	1.35	12	0.727	1500	157	294
	35	7	6.9	1.08	1.35	13	0.524	1500	193	387
	50	7	7.95	1.35	1.35	15	0.387	1500	232	514
	70	18	9.7	1.35	1.35	17	0.268	1500	292	716
	95	18	11.4	1.8	1.35	19	0.193	1500	359	986
	120	18	12.9	1.8	1.35	21	0.153	1500	418	1217
	150	34	14.45	1.8	1.35	22	0.124	1000	480	1478
	185	34	15.95	2.25	1.53	25	0.0991	1000	554	1866
	240	34	18.4	2.25	1.62	28	0.0754	1000	658	2411
	300	55	20.75	2.25	1.71	31	0.0601	900	760	2993
	400	55	23.4	2.25	1.8	34	0.047	800	893	3778
	500	55	26.61	2.7	1.89	38	0.0366	800	1034	4846

Caledonian Cables Manufacture

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	Minimum insulation resistance at 20°C	ampacities in free air at 40°C ambient	Cable weight (approx.)
	mm²		mm	mm	mm	mm	Ohm / km	MOhm/km	A	kg / km
2	2.5	1	1.78	0.72	1.35	12	7.41	2500	29	120
	2.5	7	2.01	0.72	1.35	12	7.41	2500	29	126
	4	1	2.25	0.72	1.35	13	4.61	2500	38	157
	4	7	2.55	0.72	1.35	13	4.61	2500	38	167
	6	7	3.12	0.9	1.35	15	3.08	2500	48	229
	10	7	3.71	0.9	1.35	16	1.83	2000	66	307
	16	7	4.66	0.9	1.35	18	1.15	1500	88	435
	25	7	5.86	1.08	1.35	21	0.727	1500	119	649
	35	7	6.9	1.08	1.44	24	0.524	1500	147	861
	50	7	7.95	1.35	1.44	27	0.387	1500	177	1145
	70	18	9.7	1.35	1.62	31	0.268	1500	224	1611
	95	18	11.4	1.8	1.89	37	0.193	1500	275	2278
	120	18	12.9	1.8	1.89	40	0.153	1500	320	2793
	150	18	14.45	1.8	2.07	44	0.124	1000	366	3405
	185	34	15.95	2.25	2.34	49	0.0991	1000	422	4300
	240	34	18.4	2.25	2.43	54	0.0754	1000	497	5509
	300	34	20.75	2.25	2.7	59	0.0601	900	568	6844
3	2.5	1	1.78	0.72	1.35	12	7.41	2500	29	149
	2.5	7	2.01	0.72	1.35	13	7.41	2500	29	157
	4	1	2.25	0.72	1.35	13	4.61	2500	38	201
	4	7	2.55	0.72	1.35	14	4.61	2500	38	213
	6	7	3.12	0.9	1.35	16	3.08	2500	48	297
	10	7	3.71	0.9	1.35	17	1.83	2000	66	408
	16	7	4.66	0.9	1.35	19	1.15	1500	88	591
	25	7	5.86	1.08	1.35	23	0.727	1500	119	891
	35	7	6.9	1.08	1.53	25	0.524	1500	147	1200
	50	7	7.95	1.35	1.71	30	0.387	1500	177	1625
	70	18	9.7	1.35	1.71	34	0.268	1500	224	2277
	95	18	11.4	1.8	1.98	40	0.193	1500	275	3192
	120	18	12.9	1.8	1.98	43	0.153	1500	320	3931
	150	18	14.45	1.8	2.16	47	0.124	1000	366	4798
	185	34	15.95	2.25	2.43	52	0.0991	1000	422	6052
	240	34	18.4	2.25	2.61	58	0.0754	1000	497	7807
	300	34	20.75	2.25	2.79	63	0.0601	900	568	9682

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	Minimum insulation resistance at 20°C	ampacities in free air at 40°C ambient	Cable weight (approx.)
	mm²		mm	mm	mm	mm	Ohm / km	MOhm/km	A	kg / km
4	2.5	1	1.78	0.72	1.35	13	7.41	2500	29	183
	2.5	7	2.01	0.72	1.35	14	7.41	2500	29	192
	4	1	2.25	0.72	1.35	14	4.61	2500	38	250
	4	7	2.55	0.72	1.35	15	4.61	2500	38	265
	6	7	3.12	0.9	1.35	17	3.08	2500	48	374
	10	7	3.71	0.9	1.35	19	1.83	2000	66	519
	16	7	4.66	0.9	1.35	21	1.15	1500	88	758
	25	7	5.86	1.08	1.44	25	0.727	1500	119	1160
	35	7	6.9	1.08	1.62	28	0.524	1500	147	1564
	50	7	7.95	1.35	1.8	33	0.387	1500	177	2129
	70	18	9.7	1.35	1.8	37	0.268	1500	224	2974
	95	18	11.4	1.8	2.16	44	0.193	1500	275	4184
	120	18	12.9	1.8	2.16	48	0.153	1500	320	5159
	150	34	14.45	1.8	2.43	52	0.124	1000	366	6317
	185	34	15.95	2.25	2.61	58	0.0991	1000	422	7937