

Caledonian Cables Manufacture

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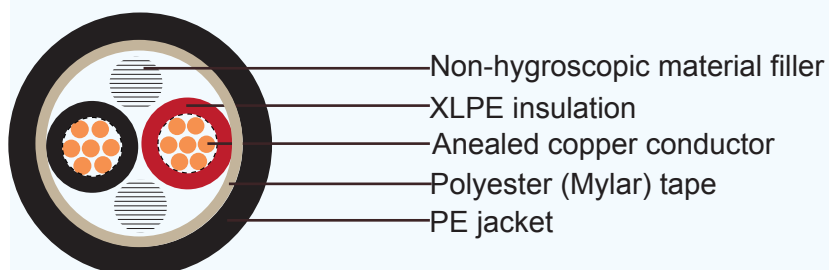
Application and Description:

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: Polyethylene(PE), 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.)
mm ²		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	40
2.5	7/0.67	2.01	0.7	1.4	6.7	7.41	55
4	7/0.85	2.55	0.7	1.4	7.2	4.61	70
6	7/1.04	3.12	0.7	1.4	7.8	3.08	90
10	7/1.35	4.05	0.7	1.4	9.4	1.83	150
16	compacted	4.7	0.7	1.4	10.0	1.15	180
25	compacted	5.9	0.9	1.4	12.0	0.727	280
35	compacted	6.9	0.9	1.4	13.0	0.524	370
50	compacted	8.1	1.0	1.4	14.5	0.387	480
70	compacted	9.8	1.1	1.4	16.0	0.268	680
95	compacted	11.4	1.1	1.5	18.5	0.193	920
120	compacted	12.9	1.2	1.5	20	0.153	1,150
150	compacted	14.4	1.4	1.6	22	0.124	1,420
185	compacted	15.9	1.6	1.6	24	0.0991	1,770
240	compacted	18.3	1.7	1.7	27	0.0754	2,310
300	compacted	20.5	1.8	1.8	30	0.0601	2,880
400	*	23.2	2.0	1.9	34	0.0470	3,680
500	*	26.4	2.2	2.0	37	0.0366	4,710
630	*	30.2	2.4	2.2	42	0.0283	6,060
2 cores							
1.5	7/0.53	1.59	0.7	1.8	11.0	12.1	90
2.5	7/0.67	2.01	0.7	1.8	12.0	7.41	120
4	7/0.85	2.55	0.7	1.8	13.0	4.61	160
6	7/1.04	3.12	0.7	1.8	14.0	3.08	210
10	7/1.35	4.05	0.7	1.8	17.0	1.83	290
16	compacted	4.7	0.7	1.8	18.5	1.15	400
25	compacted	5.9	0.9	1.8	22.0	0.727	600
35	compacted	6.9	0.9	1.8	24.0	0.524	820
50	compacted	8.1	1.0	1.8	27	0.387	1,080

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mm ²		mm	mm	mm	mm	Ohm / km	kg / km
70	compacted	9.8	1.1	1.8	31	0.268	1,520
95	compacted	11.4	1.1	1.9	35	0.193	2,070
120	compacted	12.9	1.2	2.0	38	0.153	2,550
150	compacted	14.4	1.4	2.2	43	0.124	3,160
185	compacted	15.9	1.6	2.3	47	0.0991	3,940
240	compacted	18.3	1.7	2.5	53	0.0754	5,130
300	compacted	20.5	1.8	2.6	58	0.0601	6,380
3 cores							
1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	120
2.5	7/0.67	2.01	0.7	1.8	12.5	7.41	150
4	7/0.85	2.55	0.7	1.8	13.5	4.61	210
6	7/1.04	3.12	0.7	1.8	14.5	3.08	280
10	7/1.35	4.05	0.7	1.8	18.0	1.83	410
16	compacted	4.7	0.7	1.8	19.5	1.15	560
25	compacted	5.9	0.9	1.8	23	0.727	840
35	compacted	6.9	0.9	1.8	25	0.524	1,140
50	compacted	8.1	1.0	1.8	29	0.387	1,480
70	compacted	9.8	1.1	1.9	33	0.268	2,100
95	compacted	11.4	1.1	2.0	37	0.193	2,850
120	compacted	12.9	1.2	2.1	41	0.153	3,640
150	compacted	14.4	1.4	2.3	46	0.124	4,500
185	compacted	15.9	1.6	2.4	50	0.0991	5,630
240	compacted	18.3	1.7	2.6	57	0.0754	7,330
300	compacted	20.5	1.8	2.7	62	0.0601	9,110
4 cores							
1.5	7/0.53	1.59	0.7	1.8	12.5	12.1	140
2.5	7/0.67	2.01	0.7	1.8	13.5	7.41	190
4	7/0.85	2.55	0.7	1.8	14.5	4.61	260
6	7/1.04	3.12	0.7	1.8	16.0	3.08	340
10	7/1.35	4.05	0.7	1.8	20	1.83	530
16	compacted	4.7	0.7	1.8	22	1.15	730
25	compacted	5.9	0.9	1.8	26	0.727	1,110
35	compacted	6.9	0.9	1.8	28	0.524	1,480





Addison Cables to IEC/TIS Standard

www.addison-tech.com

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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 ²		mm	mm	mm	mm	Ohm / km	kg / km
50	compacted	8.1	1.0	1.9	32	0.387	1,970
70	compacted	9.8	1.1	2.0	36	0.268	2,820
95	compacted	11.4	1.1	2.1	42	0.193	3,830
120	compacted	12.9	1.2	2.3	46	0.153	4,810
150	compacted	14.4	1.4	2.4	51	0.124	5,940
185	compacted	15.9	1.6	2.6	56	0.0991	7,430
240	compacted	18.3	1.7	2.8	63	0.0754	9,670
300	compacted	20.5	1.8	3.0	70	0.0601	12,040