



Click here for more information:  
[elandcables.com](http://elandcables.com) | [CR1-C1 Cable](#)

**ELAND<sup>®</sup>  
CABLES**

## CR1-C1 Cable



Eland Product Group: B5C

### APPLICATION

Suitable for the strictest safety requirements in case of fire, such as: emergency lightings, alarm and automatic fire detection systems, fire extinguishing systems, automatic emergency exits, lift systems, activation of smoke outlets or shutters, fans, air conditioning, and telephone and videosurveillance systems.

### CHARACTERISTICS

#### Voltage Rating

300/500 V

#### Temperature Rating

Operating: -15°C to +90°C

Maximum temperature of short circuit: +350°C

#### Minimum Bending Radius

6 x overall diameter

### CONSTRUCTION

#### Conductor

Up to 6mm<sup>2</sup>: Class 1 solid copper

10mm<sup>2</sup> and above: Class 2 stranded copper

#### Insulation

Fire resistant silicone rubber

#### Sheath

LSZH (Low smoke zero halogen) Thermoplastic M1

#### Core Identification

2 core: ● Blue ● Brown

3 core: ● Green/Yellow ● Blue ● Brown

4 core: ● Green/Yellow ● Brown ● Black ● Grey

5 core: ● Green/Yellow ● Brown ● Black ● Grey ● Blue

#### Sheath Colour

● Orange

### STANDARDS

IEC/ NF EN 60228, NF C 32-310, IEC/NF EN 60754-1/2, IEC/NF EN 61034-2

Fire resistance CR1 according to NF C 32-070

Flame retardant C1 according to NF C 32-070

### THE CABLE LAB<sup>®</sup>

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



### SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: [www.elandcables.com/company/about-us/esg-sustainability](http://www.elandcables.com/company/about-us/esg-sustainability)



### REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/853/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS &amp; ELECTRICAL CHARACTERISTICS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CLASS OF CONDUCTOR	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	CURRENT RATING (A)
B5C0100150R	1	1.5	1	4,2	35	24
B5C0100250R	1	2.5	1	5,0	50	33
B5C0100400R	1	4	1	5,4	70	45
B5C0100600R	1	6	1	5,9	90	58
B5C010100R	1	10	2	7,6	155	80
B5C010160R	1	16	2	8,6	215	107
B5C010250R	1	25	2	10,2	320	135
B5C010350R	1	35	2	11,5	430	169
B5C010500R	1	50	2	12,9	565	207
B5C010700R	1	70	2	15,0	800	268
B5C010950R	1	95	2	16,9	1070	328
B5C011200R	1	120	2	18,8	1335	382
B5C011500R	1	150	2	20,7	1640	443
B5C011850R	1	185	2	23,2	2065	509
B5C012400R	1	240	2	26,1	2710	604
B5C013000R	1	300	2	29,0	3360	699
B5C0200150R	2	1.5	1	7,2	70	26
B5C0200250R	2	2.5	1	8,5	105	36
B5C0200400R	2	4	1	9,6	140	49
B5C0200600R	2	6	1	10,6	185	63
B5C020100R	2	10	2	14,0	325	86
B5C020160R	2	16	2	16,0	455	115
B5C020250R	2	25	2	19,2	680	149
B5C020350R	2	35	2	21,8	920	169
B5C020500R	2	50	2	25,0	1230	230
B5C020700R	2	70	2	29,0	1720	291
B5C020950R	2	95	2	32,6	2280	347
B5C0300150R	3	1.5	1	7,7	95	23
B5C0300250R	3	2.5	1	9,1	135	32
B5C0300400R	3	4	1	10,2	190	42
B5C0300600R	3	6	1	11,5	265	54
B5C030100R	3	10	2	14,9	455	75
B5C030160R	3	16	2	17,3	650	100
B5C030250R	3	25	2	20,7	970	127
B5C030350R	3	35	2	23,4	1325	157
B5C030500R	3	50	2	26,9	1760	192
B5C030700R	3	70	2	31,1	2475	246
B5C030950R	3	95	2	35,0	3300	298
B5C0400150R	4	1.5	1	8,6	125	23
B5C0400250R	4	2.5	1	10,1	180	32
B5C0400400R	4	4	1	11,4	250	42
B5C0400600R	4	6	1	12,6	340	54
B5C040100R	4	10	2	16,6	590	75
B5C040160R	4	16	2	19,2	855	100
B5C040250R	4	25	2	23,0	1275	127
B5C040350R	4	35	2	26,1	1735	157



ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CLASS OF CONDUCTOR	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	CURRENT RATING (A)
B5C040500R	4	50	2	29,8	2305	192
B5C040700R	4	70	2	34,6	3255	246
B5C040950R	4	95	2	38,9	4335	298
B5C0500150R	5	1.5	1	9,4	145	23
B5C0500250R	5	2.5	1	11,1	215	32
B5C0500400R	5	4	1	12,5	305	42
B5C0500600R	5	6	1	14,1	420	54
B5C050100R	5	10	2	18,5	735	75
B5C050160R	5	16	2	21,4	1055	100
B5C050250R	5	25	2	25,6	1580	127
B5C050350R	5	35	2	29,0	2145	157
B5C050500R	5	50	2	33,1	2855	192
B5C050700R	5	70	2	38,5	4035	246
B5C050950R	5	95	2	43,3	5380	298
B5C0600150R	6	1.5	1	10,4	170	23
B5C0600250R	6	2.5	1	12,3	250	32
B5C0700150R	7	1.5	1	10,4	200	16
B5C0700250R	7	2.5	1	12,3	295	21

## CONDUCTORS

### Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CONDUCTOR CLASS	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
1.5	1	12.1
2.5	1	7.41
4	1	4.61
6	1	3.08
10	2	1.83
16	2	1.15
25	2	0.727
35	2	0.524
50	2	0.387
70	2	0.268
90	2	0.193
120	2	0.153
150	2	0.124
185	2	0.0991
240	2	0.0754
300	2	0.0601