

Fire Resistant Cables
Single core, 600/1000V
BS6387 CWZ

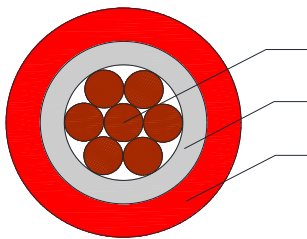


C5450, C5451, C5452, C5453, C5454, C5455, C5456, C5457, C5458

Applications

Essential safety circuits where the cable is protected by metal conduit or trunking. May be used for emergency lighting, fire alarm systems.

Cross Section Drawing



Conductor
Primary Insulation
Secondary Insulation

Design

Unit	Properties
Conductor	Flexible Bare Copper wire, Class 2
Primary Insulation	Mineral ceramic (Mica/Glass) fire resistant tape
Secondary Insulation	90°C high performance cross linked mineral filled insulation. Possible colours: Brown, Yellow, Red, Blue, Orange, Grey and Green/yellow
Standard Put Up Length	305 or 500 meters

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C5450	C5451	C5458	C5452	C5453	C5454	C5455	C5456	C5457
Cross section (mm ²)	1.5	2.5	3	4	6	10	16	25	35
Nom. Overall Diameter (mm)	3.5	4.1	4.3	4.6	5.2	6.6	7.7	9.0	10.0
Operating Temperature (°C)	-25 to +90								
Min. Bend Radius (install) (mm)	6*OD								
Nominal Cable Weight (kg/km)	26	38	46	54	75	120	180	270	360

Electrical Characteristics (at 20°C)

Part Number	C5450	C5451	C5458	C5452	C5453	C5454	C5455	C5456	C5457
Max. DC Resistance Conductor (Ω/km)	12.1	7.41	6.25	4.61	3.08	1.83	1.15	0.727	0.524
Short Circuit rating (1sec) (Amps)	215	360	465	570	860	1425	2275	3375	5000
Current rating DC or Single phase AC (Amps)	22	30	35	40	51	71	95	126	156
Current rating Three phase AC (Amps)	19	26	30	35	45	63	85	111	138
Voltage drop DC (mV/A/m)	31	19	16	12	7.9	4.7	2.9	1.85	1.35
Voltage drop single phase AC (mV/A/m)	31	19	16	12	7.9	4.7	2.9	1.9	1.35
Voltage drop three phase AC (mV/A/m)	27	16	18	10	6.8	4.0	2.5	1.65	1.15
Max. Operating Voltage (Vrms)	450/750						600/1000		

Reference Standards

EN 50267-2-1,	EN 50200 PH120
IEC 60228	EN 50290-2-27
IEC 60332-1-2	EN 61034-2
IEC 60331-21	BS8434-2 120min
BS 6387 CWZ	RoHS Directives