

Control DMX Cable

Data + Power

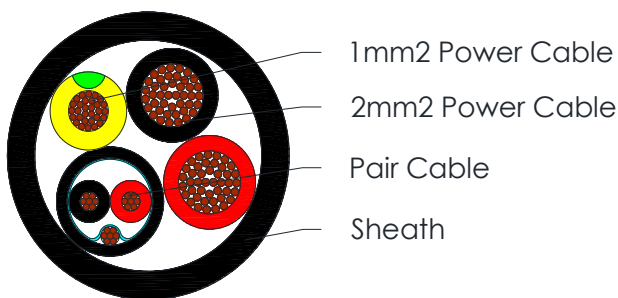


C4111

Applications

Paired cable with low capacitance used typically in RS485 installation and DMX as lighting protocol systems.

Cross Section Drawing



Design

Component	Unit	Properties
1 Pair Cable	Conductor	Stranded Tinned Copper
	Insulation	Polyolefin Black and Red
	Screen	Al/PET Tape
	Drain Wire	Tinned copper wire
	Sheath	Polyvinyl Chloride (PVC) Colour: Black
2 Power cables 2mm ²	Conductor	Stranded Bare Copper
	Insulation	Polyvinyl Chloride (PVC) Red and Black
1 Power cables 1mm ²	Conductor	Stranded Bare Copper
	Insulation	Polyvinyl Chloride (PVC) Yellow/Green
Overall	Sheath	Polyvinyl Chloride (PVC) Colour: Black
	Standard Put Up Length	305 or 500 metres

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

Control DMX Cable

Data + Power



C4111

Physical Characteristics

Part Number	C4111			
Component	Pair cable	2 Power cables 2mm ²	1 Power cables 1mm ²	Overall
Conductor Gauge (AWG)	24	14	18	-
Nom. Diameter Conductor(mm)	7×0.20	43×0.25	30×0.20	-
Nom. Diameter Insulation	1.70	3.0	2.5	-
Drain Wire (mm)	7×0.20	-	-	-
Nom. Overall Diameter(mm)	3.50	-	-	9.7
Operating Temperature (°C)	-10 to +75			
Min. Bend Radius (install)(mm)	97			
Nominal Cable Weight (kg/km)	87.5			

Electrical Characteristics at 20°C

Part Number	C4111		
Component	Pair cable	2 Power cables 2mm ²	1 Power cables 1mm ²
Impedance(Ohm)	110	-	-
Nom. DC Resistance Conductor (Ω /km)	78.6	5.64	18.57
Max. DC Resistance Screen (Ω /km)	53.7	-	-
Nominal Capacitance conductor to conductor (pF/m)	42-	104	-
Nominal Capacitance conductor to rest (pF/m)	85	-	-
Conductor Inductance at 1MHz (μ H/m)	1.07	0.49	0.69

Nominal Attenuation in dB/100m for Pair cable

KHz	15	348	1000	1220	2713	3720	4016	6815
Value	0.51	1.25	3.01	3.15	3.98	4.58	5.21	6.09

Reference Standards

(BS) EN 50290-2	IEC 60332-1
IEC 60228	RoHS directives