

Riser-CMR Composite Cable

CCTV + Control + Power

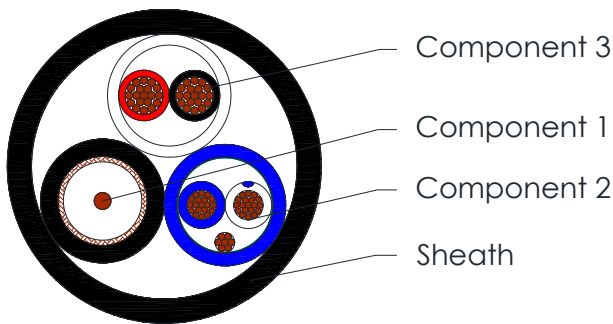


C4099

Applications

For PTZ Cameras

Cross Section Drawing



Design

Component	Unit	Properties
1 CCTV (RG59)	Conductor	Solid Bare Copper
	Dielectric	Foamed Polyethylene
	Braid	Bare Copper wire
	Sheath	Polyvinyl Chloride (PVC) Colour: Black
2 Control	Conductor	Stranded Bare Copper
	Insulation	Polyolefin Blue and White/Blue
	Screen	Al/PET Tape
	Drain Wire	Tinned copper wire
	Sheath	Polyvinyl Chloride (PVC) Colour: Blue
3 Power	Conductor	Stranded Bare Copper
	Insulation	Polyvinyl Chloride (PVC) Red and Black
	Sheath	Polyvinyl Chloride (PVC) Colour: White
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.

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Physical Characteristics

Part Number	C4099			
Component	1	2	3	Overall
Conductor Gauge (AWG)	20	18 (19×30)	14 (19×27)	-
Nom. Diameter Conductor(mm)	0.81	1.12	1.78	-
Nom. Diameter Dielectric	3.68	2.03	-	-
Coverage Braid (%)	95	-	-	-
Drain Wire (AWG)	-	20 (7×28)	-	-
Nom. Overall Diameter(mm)	5.77	5.56	6.0	14.6
Operating Temperature (°C)	-10 to +75			
Max. Recommended Pulling Tension (N)	987			
Min. Bend Radius (install)(mm)	146			
Nominal Cable Weight (kg/km)	202			

Electrical Characteristics at 20°C

Part Number	C4099		
Component	1	2	3
Impedance(Ohm)	75 ± 3	-	-
Nom. DC Resistance Conductor (Ω/km)	32.8	21.3	8.26
Max. DC Resistance Screen (Ω/km)	11.5	-	-
Nominal Capacitance conductor to conductor (pF/m)	-	85	69
Nominal Capacitance conductor to rest (pF/m)	53.4	144	-
Nominal Inductance (μH/m)	0.32	-	-
Velocity of Propagation (%)	83	-	-
Nominal Time Delay (ns/m)	4.0	-	-
Max. Recommended Current (Amps)	-	5.2	5.0
Operating Voltage (Vrms)	300V		

Nominal Attenuation in dB/100m for Component 1 CCTV

MHz	1	5	10	50	100	200	400	700	900	1000
RG-59	1.0	2.13	2.95	6.23	8.53	11.81	16.41	22.97	26.23	27.89

Reference Standards

(BS) EN 50290-2	UL 1666 for CMR
IEC 60228	IEC 61196
(BS) EN 50117	RoHS directives