

# RG-59 Composite Coaxial Cables for CCTV

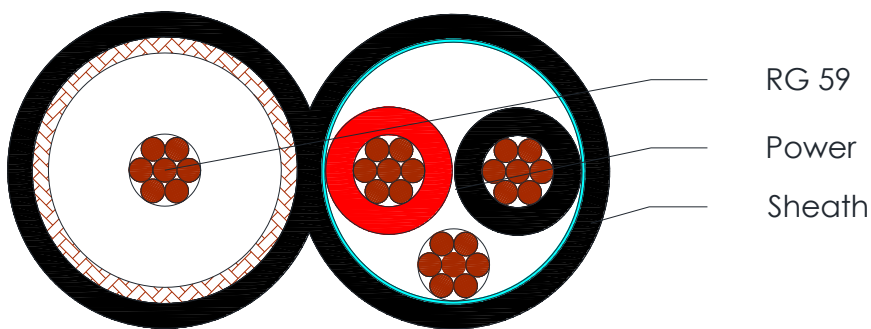


C4316

## Applications

Composite ENG, EFP and CCTV.

## Cross Section Drawing



## Design

Component	Unit	Properties
Coax	Conductor	Stranded Bare Copper (BC)
	Dielectric	Foamed Polyethylene
	Braid	Bare Copper wire
Power	Conductor	Stranded Tinned Copper (TC)
	Insulation	Polyvinyl Chloride (PVC) Color: Black and Red
	Drain Wire	Stranded Tinned Copper
	Screen	Al/PET Tape
Sheath		Polyvinyl Chloride (PVC) Standard 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.

# RG-59 Composite Coaxial Cables for CCTV



## C4316

### Physical Characteristics

Part Number	C4316	
Component	Coax	Power
Conductor Size (AWG)	7×30	7×30
Nom. Diameter Dielectric	3.71	1.37
Nom. Drain Wire Size (AWG)	-	7×30
Coverage Braid (%)	95	-
Nom. Overall Diameter(mm)	6.0×12.0	
Operating Temperature (°C)	-40 to +60	
Max. Recommended Pulling Tension (N)	302	
Min. Bend Radius (install)(mm)	63.5	
Nominal Cable Weight (kg/km)	86.2	

### Electrical Characteristics at 20°C

Part Number	C4316	
Component	Coax	Power
Impedance(Ohm)	75 ± 3	35 ± 3
Max. DC Resistance Conductor (Ω/km)	49.2	49.2
Max. DC Resistance Screen (Ω/km)	8.52	36.1
Nominal Capacitance conductor to conductor (pF/m)	-	167.2
Nominal Capacitance conductor to shielded (pF/m)	56.7	313
Nominal Inductance (μH/m)	0.30	
Velocity of Propagation (%)	78	58
Nominal Time Delay (ns/m)	4.26	-
UL Voltage Rating (V Rms)	30	

### Nominal Attenuation in dB/100m

MHz	1	5	10	50	100
<b>RG-59</b>	0.99	2.30	3.28	6.89	9.84

### Reference Standards

(BS) EN 50290-2	IEC 61196
(BS) EN 50117	RoHS directives