

# BCC Security-Tec™ - Coaxial Cables For CCTV and Video

RG-6, RG-11 and RG-59, Solid Conductor  
 75 Ohm HFFR Coaxial Cables for CCTV and Video  
 BCC Part No: C1428 – C1429 – C1430



BRITISH CABLES COMPANY

## Applications

CCTV and Video

## Operating Temperature

-25 to +75 °C

## Installation Temperature

-5 °C (Outdoor Limit)

## Max. Operating Voltage

300 Vrms

## Standard References

IEC 61196  
 (BS) EN 50117  
 (BS) EN 50290-2  
 IEC 60332-3-24 (Fire Retardant)  
 IEC 61034 (Low Smoke)  
 RoHS directives

## Design

### 1. Conductor

Solid Bare Copper (BC)

### 2. Dielectric

Foamed Polyethylene

### 3. Braid

Bare Copper

### 4. Sheath Material

PVC - Cream Halogen-Free (HFFR)

### Standard Put Up Length

305 or 500 metres



## Physical Characteristics

Coax Cables for CCTV and Video		RG-59 Solid Conductor	RG-6 Solid Conductor	RG-11 Solid Conductor
BCC Part Numbers		C1428	C1429	C1430
Nom. Diameter Conductor	mm	0.81	1.02	1.63
Nom. Diameter Dielectric	mm	3.71	4.60	7.11
Nom. Overall Diameter	mm	6.0	6.8	10.0
Coverage Braid	%	95	95	90
Max. Recommended Pulling Tension	N	220	310	640
Min. Bend Radius (Install)	mm	60	68	100
Weight	kg/km	48.5	58.2	120

## Electrical Characteristics (at 20°C)

Coax Cables for CCTV and Video		RG-59 Solid Conductor	RG-6 Solid Conductor	RG-11 Solid Conductor
BCC Part Numbers		C1428	C1429	C1430
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3
Max. DC Resistance Conductor	Ω/km	33.5	21.5	8.8
Max. DC Resistance Screen	Ω/km	10.1	10.8	6.5
Nominal Capacitance	pF/m	53.5	53.5	52.8
Nominal Inductance	μH/m	0.32	0.32	0.32
Velocity of Propagation	%	83	83	84
Nominal Time Delay	ns/m	3.97	3.97	3.97
Min. Return Loss 1 to 1000 MHz	dB	20	20	20

## Nominal Attenuation in dB/100m

MHz	5	10	50	100	200	300	400	450	550	700	750	870	1000
RG-59	1.9	2.95	6.23	8.53	11.81	15.3	16.41	18.92	21.03	22.97	24.8	26.84	27.89
RG-6	1.78	2.36	4.92	6.56	9.51	12.43	13.78	15.14	17.15	18.37	19.73	20.26	21.96
RG-11	0.99	1.51	2.96	4.27	6.23	8.27	9.51	10.31	11.51	13.45	13.95	14.87	17.06



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