

## Applications

CATV and SMATV

## Operating Temperature

-25 to +75 °C

## Max. Operating Voltage

300 Vrms

## Sector - BT-Security-TEC™

Coaxial Cables

## Standard References

IEC 61196

(BS) EN 50117

(BS) EN 50290-2

RoHS directives

## Design

### 1. Conductor

Solid Copper Covered Steel (CCS)

### 2. Dielectric

Foamed Polyethylene

### 3. Screen

Bonded Aluminium/  
Polyester foil  
100% coverage

### 4. Braid

Aluminium

### 5. Sheath Material

Polyvinyl Chloride (PVC)

### Standard Put Up Length

305 or 500 metres

## Physical Characteristics

Coax Cables for CATV and SMATV		RG-59 3000 MHz	RG-6 3000 MHz	RG-11 3000 MHz
BTCL Part Numbers		C1025	C1026	C1027
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	%	54	60	61
Max. Recommended Pulling Tension	N	350	560	1157
Min. Bend Radius (Install)	mm	60	68	100
Nom. Cable Weight	kg/km	32.42	41.32	86.6

## Electrical Characteristics (at 20°C)

Coax Cables for CATV and SMATV		RG-59 3000 MHz	RG-6 3000 MHz	RG-11 3000 MHz
BTCL Part Numbers		C1025	C1026	C1027
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3
Max. DC Resistance Conductor	Ω/km	146.5	92.2	36.5
Max. DC Resistance Screen	Ω/km	52	30	25
Nominal Capacitance	pF/m	53	53	53
Nominal Inductance	μH/m	0.32	0.32	0.32
Velocity of Propagation	%	83	83	83
Nominal Time Delay	ns/m	3.94	3.94	3.94
Min. Return Loss 1 to 1000 MHz	dB	20	20	20
Min. Return Loss 1000 to 2000 MHz	dB	18	20	20
Min. Return Loss 2000 to 3000 MHz	dB	16	20	20

## Nominal Attenuation in dB/100m

MHz	5	10	50	100	200	400	550	870	1250	1750	2150	2500	3000
RG-59	2.92	3.45	5.40	8.21	12.56	16.01	19.36	24.74	30.62	36.71	40.82	44.72	48.64
RG-6	2.2	2.48	5.15	6.6	9.56	13.12	15.45	19.69	24.25	29.26	32.88	35.88	39.83
RG-11	1.25	2.03	3.75	5.01	6.85	7.05	9.65	12.6	16.66	20.28	22.93	25.12	28.08