



## Coaxial cable RG6 TDS



RG6 is a coaxial cable with an impedance of 70Ω and an external diameter of 6.8 mm. The inner conductor is copper wire. The dielectric is made of PVC, so the cable is perfect for outdoor applications.

### Component

Inner conductor: Copper  $\phi$  1.02  $\pm$ 0.02 mm  
 Dielectric: Gas injected PE  $\phi$  4.70  $\pm$ 0.01 mm  
 Outer conductor: -Shield Al/PES  
                           -Braid Aluminium  
 Sheath: PVC Black (semi loose extrusion)

### Marking

Wave-Cable RG6 TDS Coaxial Cable (Meter mark at every 1 meter section)

### APPLICATIONS

Suitable for Digital HDTV Applications, CATV, Outdoor TV Antennas and Digital Satellite Installations

### FEATURES

- Specified and tested to 3 GHz
- Perfect matching

### BENEFITS

- Reduced installation costs and maintenance

### Specification

<b>Inner conductor</b>		Copper	$\phi$ 1.02 $\pm$ 0.02 mm	
<b>Dielectric</b>		Gas injected PE	$\phi$ 4.70 $\pm$ 0.1 mm	
<b>Outer conductor</b>	Shield	Al/PES	Breadth	17 mm
			Thickness	9/12 $\mu$ m
			Min. overlap	2 mm
	Braid	Aluminium	Formation	16x4x0.12 $\pm$ 0.01 mm
			Lay	40 mm
			Angle	15° to 45°
<b>Sheath</b>		PVC Black (semi loose extrusion)	Diameter	$\phi$ 6.8 $\pm$ 0.2mm
			Min. thickness	0.8mm

### Electrical data

<b>Impedance</b>	70 $\pm$ 3Ω	
<b>Capacitance</b>	52pF/m $\pm$ 3	
<b>Velocity of propagation</b>	85%	
<b>Attenuation at 20°C [dB/100m]</b>	5 MHz	1.7
	50 MHz	5.0
	200 MHz	8.7
	400 MHz	12.8
	800 MHz	18.0
	1000 MHz	19.8
	1350 MHz	23.8
	1750 MHz	28.0
	2150 MHz	31.4
	3000 MHz	38.0
<b>Return loss</b>	5 - 30 MHz	> 26 dB
	30 - 470 MHz	> 23 dB
	470 - 1000 MHz	> 20 dB
	1000 - 3000 MHz	> 20 dB