



Hills Antenna RG6 Quad Shield range of Satellite and Terrestrial TV all-in-one Coaxial Cables.



The Hills Antenna RG6 Quad Shield Coaxial Cable is suitable for both satellite and terrestrial installations and is Foxtel approved. It has four layers of shielding, ensuring maximum protection against potential signal interference and is available in a 305m reel, 305m easy pull box, 100m reel and a handy 30m reel for those small jobs. The Hills Antenna RG6 Quad Shield Coaxial Cable has been tested and approved by Foxtel for use in their installation systems.

BC85084: 305m Reel. Foxtel Approval Number #F31020

BC85085: 305m Easy Pull Box. Foxtel Approval Number #F31019

BC85087: 100m Reel. Foxtel Approval Number #F31021

BC85120: 30m Reel. Foxtel Approval Number #31070

Product Features

- ☞ Quad Shield Cable for superior signal quality and minimal interference
- ☞ Low attenuation loss cable specifications for best possible HDTV viewing
- ☞ Every metre is marked with cable information for easy identification and use
- ☞ Suitable for Australian Weather Conditions for above ground installation
- ☞ Matched 75Ω impedance coaxial cable for receiving devices and DTV tuners
- ☞ Copper clad solid steel centre conductor for superior breaking strength and electrical performance
- ☞ Rated from 5Mhz – 3,000MHz for all terrestrial and satellite applications needs
- ☞ Flame Resistant safety and UV stable PVC jacket material for cable longevity

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Part Number	BC85084	BC85085	BC85087	BC85120
Product Name	RG6 QUAD SHIELD COAX CABLE FTA/SAT			
Packaging Type	305m REEL	305m BOX	100m REEL	30m REEL
Foxtel IPL Approval	F31020	F31019	F31021	F31070

Performance Specifications	
Centre conductor type	Copper clad steel conductor
Centre conductor outer diameter	1.02mm \pm 0.01mm
Conductivity of the centre conductor	Greater than 18% IACS
Centre conductor surface finish	Smooth and clean with no evidence of irregularities to the copper surface
Dielectric material	Gas Injected Foamed Polyethylene.
Diameter over dielectric	4.57mm \pm 0.10mm
Dielectric plus LST (Core)	4.78mm \pm 0.13mm
First Shield (TAPE)	AL/Pet/AL Bonded- foil
Thickness of the first shield	47.24 μ m minimum 81.28 μ m maximum
Second shield braid wires	Aluminium wires
Diameter of the second shield braid wires	34AWG (5154A)
Minimum tensile strength of each individual braid	43,000psi; with minimum elongation of 3 percent
Braid coverage of the second shield	Min. 60%
Third Shield (TAPE)	AL/Pet/AL Non-Bonded foil
Thickness of the Third shield	43.18 μ m minimum 81.28 μ m maximum
Fourth shield braid wires	Aluminium wires
Diameter of the Fourth Shield braid wires	34AWG
Minimum tensile strength of each individual braid	43,000psi; with minimum elongation of 3 percent
Braid coverage of the second shield	Min. 40%
Jacket material	Polyvinylchloride (Black)
Jacket Diameter (Cable OD)	7.54mm \pm 0.20mm

Mechanical Specification	
Temperature Rating	-20°C to +70°C
Minimum static bend	70mm
Core Ovality over the first shield	Less than 0.33mm
Centre conductor MIN Break Strength	65.3kgf
Centre conductor bond to dielectric	Minimum 2.3kg
To withstand cold bend test	PVC Jacket @ -40 deg C with no visible damage
To withstand impact	PVC jacket @ -15 deg C without damaging the jacket
Thermal Oxidative Stability	Tests carried out per ASTM D 4565
UV stability	per UL1581 paragraph 1200
Flammability (Combustion Propagation) Test	Comply with AS/NZS 1660.5.6:2005, as per AS/ACIF S008:2006
Jacket longitudinal shrinkage	Less than 5% of the length under test, when tested per ANSI/SCTE 88

Electrical Specification (20°C)				
Impedance	Impedance 75 Ω \pm 3 Ω			
Minimum Structural Return Loss	Greater than 20dB from 5MHz to 3000MHz			
Minimum Return Loss	Greater than 20dB from 5MHz to 3000MHz			
Nom. Attenuation@ 20°C	Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
	5	1.9	550	16.08
	55	5.25	600	16.73
	211	10	750	18.54
	250	10.84	870	20.04
	270	11.04	1,000	21.49
	300	11.64	1,300	24.49
	330	12.26	1,450	25.89
	350	12.63	1,750	28.67
	400	13.61	2,150	31.79
	450	14.43	2,600	35.3
500	15.29	3,000	38.84	
Velocity of Propagation	\geq 82%			
Centre Conductor Resistance	Maximum DC 102.0 Ω /km @ 20°C			
Loop Resistance	Maximum DC 121.1 Ω /km @ 20°C			
Dielectric Breakdown (Voltage Withstand)	1000VAC rms at a frequency of 60Hz for 1 minute			
Spark Test of Jacket	The overall jacket integrity to withstand a spark test at a minimum 2.5kV rms			
Minimum ampacity in both conductors	At 20 deg C ambient temperature – 8 Amperes			
	At 40 deg ambient temperature – 6 Amperes			
Transfer Impedance	Per IEC62153-4-4 triaxial method			