



BNC 75 HDTV

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS
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ELECTRICAL CHARACTERISTICS

Frequency Range	DC - 6 GHz (Optimized at 3 GHz)		
Impedance	75Ω		
V.S.W.R. (max)	DC - 1.5 GHz	1.5 - 3 GHz	3 - 6 GHz
• Interface (Plug + Jack)	1.02	1.05	1.08
• Mated Pair	1.05	1.12	1.25
• In Series Adapters	1.04	1.07	1.12
Working Voltage	500 Vrms		
Dielectric Withstanding Voltage	1500 Vrms		
RF Leakage @ 1 GHz	75 dB		
RF Leakage @ 3 GHz	60 dB		
RF Leakage @ 6 GHz	50 dB		

MECHANICAL CHARACTERISTICS

Mating	Intermateable with 50Ω and 75Ω Standard BNC Connectors
Long Life Duration (Mating Endurance)	1000 cycles
Engagement Force	13.6 N
Mating Torque (Bayonet)	28.6 N.cm
Coupling Nut Retention Force	Axial Force: 450 N Bending Stress: 1000 N.cm
Center Contact Insertion Force	10 N max
Vibration	MIL STD 202 Meth.204 Cond B

ENVIRONMENTAL CHARACTERISTICS

Temperature Range	-65 °C + 165 °C
Moisture Resistance	MIL STD 202, Meth. 106 CECC 22000 Paragraph 4.6.6
Corrosion Resistance	MIL STD 202, Meth. 101 Cond B (48 hours Salt Spray)

MATERIALS AND PLATING

Components	Material	Plating
Body	Brass	NPGR / BBR / Nickel
Center Contact	Brass or Beryllium Copper	NPGR
Outer Contact	Brass	NPGR
Insulator	PTFE	-
Gasket	Silicone Rubber	-

COMPOSITE VERSION

CHARACTERISTICS

Frequency Range	DC up to 6 GHz
Impedance	75Ω
VSWR	1.05 @ 3GHz (Return loss -32dB)
Mating Cycles	1000
Temperature Range	-40 °C ~ + 85 °C

MATERIALS AND PLATING

Parts	Material	Plating
Coupling Nut	Composite	-
Body	Brass	Gold
Outer Contact	Brass	Gold
Center Contact	Brass	Gold
Insulator	PTFE	-