

Mini UHF Series



Description

Miniature UHF connectors are designed for use as coaxial interconnections in cellular mobile telephone systems and similar applications where size, weight and cost factors are critical. These connectors will terminate RG-58, -58A, 58B, -58C, and Belden 9258 cables. Crimp-type cable plugs and jacks are available as well as panel and printed circuit board receptacle.

Applications

- Cellular mobile telephone
- Low cost local area networks
- Telecommunications

Features

These miniature 3/8-24" thread size UHF connectors provide excellent RF performance for applications up to 2.5 GHz. This compares to the limit of 300 MHz for the standard 5/8-24 thread size UHF connectors normally associated with CB applications.

Combining excellent electrical characteristics, small size and light weight, mini-UHF connectors feature crimp-type cable termination providing low installation cost.

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Specification MINI-UHF 50 ohm 0-2.5 GHz

Mini-UHF coaxial connectors are designed for use in applications from DC to 2.5 GHz where size, weight and cost elements are crucial. The miniature 3/8"-24 thread size connectors provide excellent RF performance and are impedance matched to 50 ohm cable. Crimp, Twist-on and solder terminations are available with the mini-UHF series.

Mini-UHF connectors combine excellent electrical characteristics, small size and light weight at a relatively inexpensive cost for many coaxial connector applications.

Electrical :

Impedance	50 ohm
Frequency Range	0 to 2.5 GHz
VSWR	1.25max
Voltage Rating	335 volts rms max
Dielectric withstanding Voltage	1,000 volts rms max
Contact resistance	center contact=1.5 milliohms max outer contact=1.0 milliohms max
RF Leakage	-55dB min @2.5 GHz
Insertion Loss	0.2dB max @2.5 GHz
Insulator resistance	5,000 Megohms min

Mechanical & Environmental

Mating	3/8"-24 threaded coupling
Durability	RG-58,141,142,223→40 lbs min
Cable Retention	RG-174,188,316→20 lbs min 500 matings -55°C to 85°C
Temperature Range	MIL-STD-202 Method 204 test Cond.B.
Vibration	MIL-STD-202 Method 101 test Cond.B.
Temperature Cycling	

Material

	Material	Nickel
Connector Body	Brass	Nickel
Center Contact	Male: Brass Female : Brass, Phosphor Bronze or Beryllium-Copper	Gold or Silver
Insulation	Teflon or Derlin	None
Crimp Ferrule	Silicone Rubber, Rubber Annealed Copper or Brass	None Same as Body