



RECOMMENDED  
CABLE STRIPPING DIM'S

#### Electrical Specifications

Impedance: 50  $\Omega$

Frequency Range: 0-4 GHz with low reflection; usable to 10.0 GHz

Voltage Rating for RG-188/U Cable:

335 volts at sea level and 85 volts at 70,000 feet

Dielectric Withstanding Voltage: RG-196: 750 VRMS;

RG-188: 1,000 VRMS

VSWR: Straight connector, RG-196/U:  $1.30 \pm 0.04$  f (GHz)

Right angle connector, RG-196/U:  $1.45 \pm 0.06$  f (GHz)

Straight connector, RG-188/U:  $1.25 \pm 0.04$  f (GHz)

Right angle connector, RG-188/U:  $1.35 \pm 0.04$  f (GHz)

Contact Resistance:

Center contact: 6.0 m $\Omega$  initial, 8.0 after environmental;

Outer contact: 1.0 m $\Omega$  initial, 1.5 after environmental

Braid to body: 1.0 m $\Omega$  initial, after environmental N/A

Insulation Resistance: 1,000 M $\Omega$  Min.

Insertion Loss: Straight connector: 0.30 dB @ 1.5 GHz

Right angle connector: 0.60 dB @ 1.5 GHz

RF Leakage: -55 dB Min. @ 2-3 GHz

Mechanical

Mating: Snap-on coupling per MIL-STD-348

Braid/Jacket Cable Affixment: Hex crimp

Center Conductor Cable Affixment: Solder

Engagement Forces: Engagement: 14 lbs maximum

Disengagement: 2 lbs minimum

Durability: 500 cycles Min.

Temperature Range: -65°C to +165°C

Material

Center Contact:

Female: beryllium copper, gold-plated

Male: brass or beryllium copper, gold-plated

Outer Contact Plating: Nickel or gold plating

Body: Brass or zinc

Body Plating: Nickel or gold plating

Insulator: TFE

Crimp Ferrule: Annealed copper alloy

Cable Group: RG-55, RG-142, RG-223, RG-400