INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

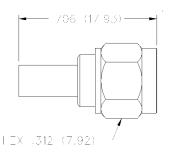
SMA Non-Magnetic RF Connectors

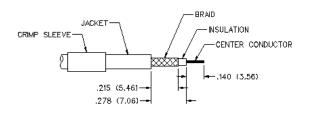
For Flexible Cable

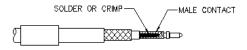
Straight Crimp Type Plug (3-piece) - Captivated Contact

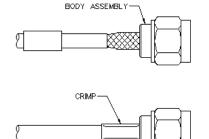


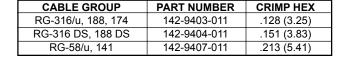
CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED
RG-316/u, 188, 174	1.15 + .02f (GHz) 0-12.4 GHz	142-9403-011

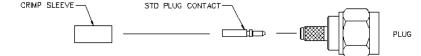












- 1. Identify connector parts. (3 piece parts)
- 2. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. When stripping LMR-100 low loss cable, remove foil back to where cable jacket is stripped. A wire stripper of correct size is recommended for this step. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable.
- 3. Assemble contact onto cable as shown.
 - **Solder Attachment:** Solder contact to center conductor through solder hole using .020 (0.51) diameter solder. Use a minimum amount of solder for a good joint.
 - **Crimp Attachment:** Crimp contact to center conductor using Johnson Components[™] Hand Tool 144-0000-910, setting #2, with positioner 141-0000-907. Crimp location should be centered between end of contact and X-hole. Crimp attachment to solid center conductor cables is not recommended.
- 4. Flare braid and slide body assembly over contact and under braid. Then seat body assembly firmly onto contact. The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp tool. Slide heat shrink forward and shrink (as applicable).



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SPECIFICATIONS

ELECTRICAL RATI	NGS					
Impedance: 50 ohm	IS					
	Frequency Range: Flexible cable connectors 0-12.4 GHz					
	Uncabled receptacles					
VSWR: (f = GHz)	Straight Cabled Connectors		ed Connectors			
RG-316`	1.15 + .02f		15 + .03f			
	1.15 + .01f		15 + .02f			
Uncabled receptacle	S		N/A			
Working Voltage: (\						
Connectors for Cal	ole Type		70K Feet			
RG-316		250	65			
	receptacles		85			
Dielectric Withstan	ding Voltage: (VRMS minimum at sea level))				
Connectors for RC	G-316					
Connectors for RC	G-58, uncabled receptacles		1000			
	s minimum at 70,000 feet)⁼					
Connectors for RC	G-316		190			
	G-58, uncabled receptacles		250			
Insertion Loss: (dB	maximum)	. /				
Straight flexible cal	ple connectors 0.06	∨ <u>f (GHz),</u>	tested at 6 GHz			
	cable connectors 0.15					
	es		N/A			
	ice: 5000 megohms minimum					
Contact Resistance	e: (milliohms maximum)		<u>After</u>			
0 1 1/1			Environmental			
	ght cabled connectors, uncabled receptacles		4.0			
	angle cabled connectors)		6.0			
	nnectors)		N/A			
Braid to body		0.5	N/A			

RF Leakage: (dB minimum, tested at 2.5 G Flexible cable connectors			60 4B
Uncabled receptacles			
RF High Potential Withstanding Vol			
Connectors for RG-316			
Connectors for RG-58, uncabled receptad			
,			
MECHANICAL RATINGS			
Engagement Design: MIL-STD-348, Serie			
Engagement/Disengagement Force: 2 in	ch-pounds maximum		
Mating Torque: 7 to 10 inch-pounds			
Coupling Proof Torque: 15 inch-pounds r			
Coupling Nut Retention: 60 pounds minir			
Contact Retention: 6 lbs. minimum axial f			
4 inch-ounce minimun			
Cable Retention:	Axial Force*(lbs)		
Connectors for RG-316		N/A	
Connectors for RG-58		N/A	
*Or cable breaking strength whichever is les	SS.		
Durability: 500 cycles minimum			
ENVIRONMENTAL RATINGS (Meets or ex	ceed the applicable p	aragraph of MIL-C-3	9012)
Temperature Range: - 65°C to + 165°C			
Thermal Shock: MIL-STD-202, Method 10	7, Condition B		
Corrosion: MIL-STD-202, Method 101, Co			
Shock: MIL-STD-202, Method 213, Condition	on I		

Vibration: MIL-STD-202, Method 204, Condition D Moisture Resistance: MIL-STD-202, Method 106