

TEST/CHARACTERISTICS	MIL-C-39012 A	VALUES/REMARKS
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ELECTRICAL CHARACTERISTICS

Impedance		50 Ω			
Frequency range		DC-4 GHz			
V.S.W.R. (typ.) Straight models	cable group: .085" 2 2.6	3-14	1 GHz 1.12 1.10 1.12	2.5 GHz 1.22 1.22 1.22	4 GHz 1.33 1.33 1.35
Right angle models	.085" 2		1.10 1.10	1.18 1.20	1.26 1.25
Insertion loss (typ.) Straight models	cable group: .085" 2 2.6	3-27	0.05 0.05 0.05	0.07 0.10 0.05	0.15 0.25 0.05
Right angle models	.085"		0.05	0.07	0.12
RF leakage		3-26	-55 dB min from 2 to 3 GHz		
Insulation resistance		3-11	1000 MΩ min		
Contact resistance	center contact (mΩ) outer contact (mΩ)	3-16	Initial 6 1	After test 8 1.5	
Working voltage	Cable group at sea level at 70000 ft (21000 m)		2/50 250 V rms 60 V rms	2.6/50 335 V rms 85 V rms	
Dielectric withstanding voltage	Cable group at sea level at 70000 ft (21000 m)	3-17	2/50 750 V rms 185 V rms	2.6/50 1000 V rms 250 V rms	
RF withstanding voltage (5 MHz sine wave)	Cable group at sea level	3-23	2/50 500 V rms	2.6/50 700 V rms	

MECHANICAL CHARACTERISTICS

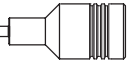
Durability		3-15	500 matings		
Mating / unmating		3-5-1	axial force : 62 N max (14 Lbf)		
Cabling retention force	cable group: 2/50 2.6/50	3-24	58 N (13 Lbf) 110 N (25 Lbf)		
Center contact retention			Axial : 10 N (2.25 Lbf)		

ENVIRONMENTAL CHARACTERISTICS

Temperature range	standard models hermetic sealed models models for semi-rigid cables		-65°C / + 165°C -65°C / +165°C -65°C / +105°C		
Combined climate tests			MIL-STD-202. method 102. condition C		
Thermal shock		3-20	MIL-STD-202. method 107. condition B		
High temperature endurance			MIL-STD-202. method 108		
Corrosion (salt spray)		3-13	MIL-STD-202. method 101. condition B, 5%		

All dimensions are given in millimeters

Standard packaging : 100 pieces (Same part number). For unit packaging, add "W" after the P/N.



ENVIRONMENTAL CHARACTERISTICS

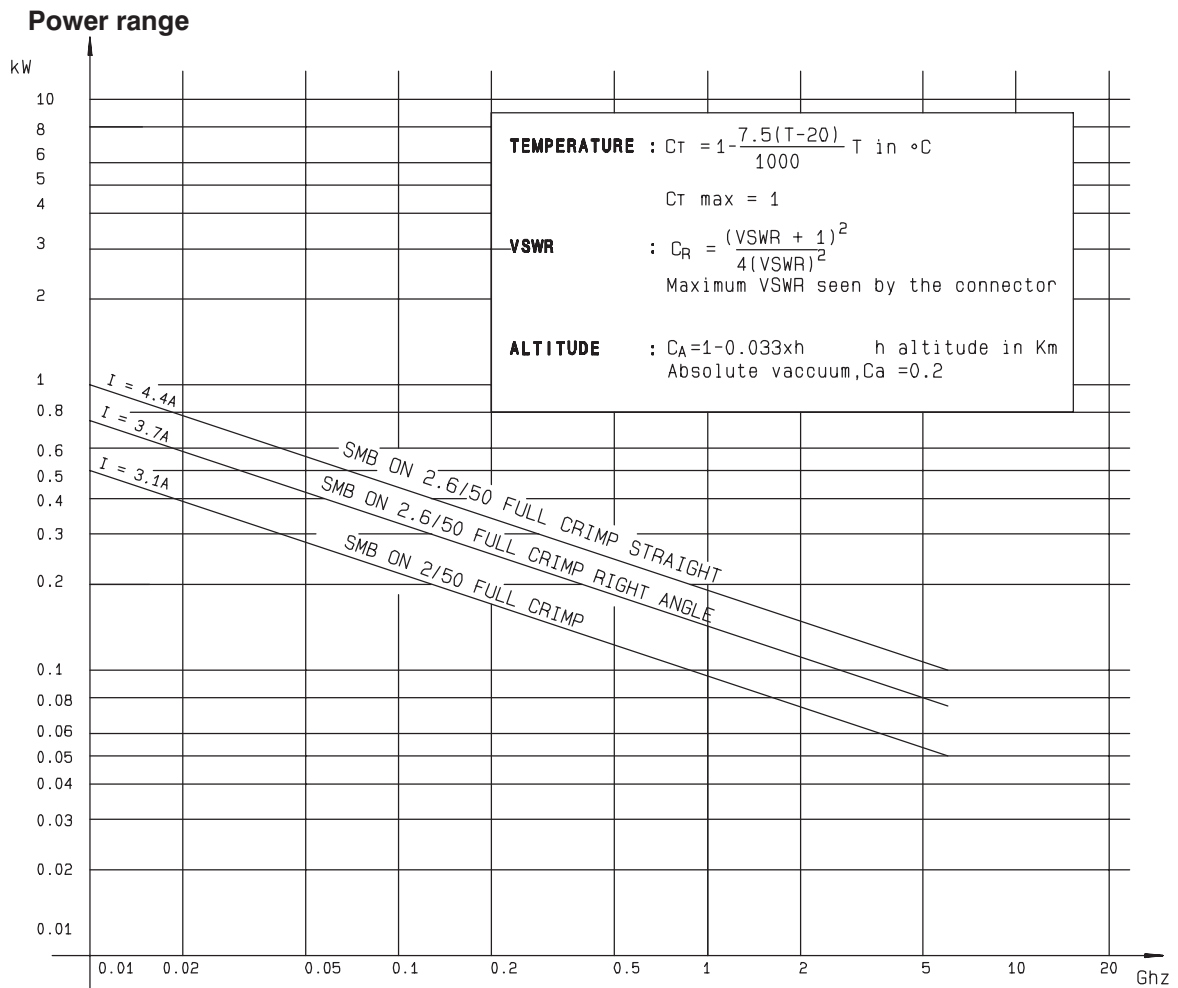
Vibrations	3-18	MIL-STD-202. method 204. condition B, 15g
Shocks	3-19	MIL-STD-202. method 213. condition B, 75g
Low pressure	3-22	MIL-STD-202. method 105. condition C
Hermetic seal		applied vacuum 10^{-6} mm of Hg (Torr) leakage rate $< 10^{-6}$ atm/cm ³ /s

MATERIALS

Body and center pin contact		half hard brass as per QQ-B-626
Center socket contact		beryllium copper as per QQ-C-530
Ferrules		brass
Insulators		PTFE teflon
Gaskets		silicone elastomer

PLATING

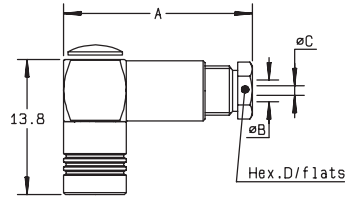
Body		gold or nickel
Center contacts		gold



All dimensions are given in millimeters

Standard packaging : 100 pieces (Same part number). For unit packaging, add "W" after the P/N.

RIGHT ANGLE PLUGS CLAMP TYPE FOR FLEXIBLE CABLES



cable	part number	dimensions				captive center contact	assembly	finish	note
		A	B	C	D				
2/50/S	R114 163 000	19	2.2	1	5	yes	M04	Gold	
2/50/S	R114 163 133	16.1	2.2	1	5.5	yes	M05	Gold	conical braid clamp
2.6/50+75/S	R114 165 000	19	3	1.7	5	yes	M04	Gold	
2.6/50+75/S	R114 165 133	16.1	3	1.7	5.5	yes	M05	Gold	conical braid clamp

RIGHT ANGLE PLUGS SOLDER TYPE FOR SEMI RIGID CABLE

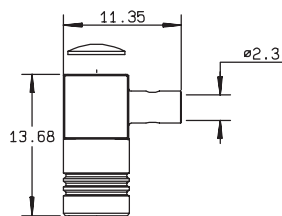


Fig. 1

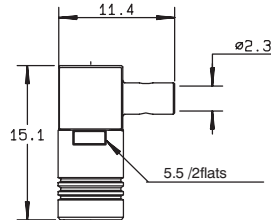


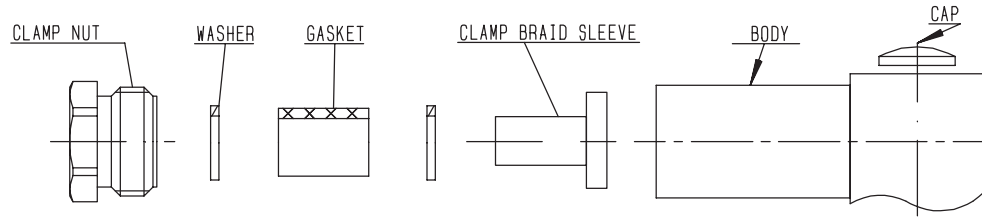
Fig. 2

cable	part number	fig.	captive center contact	assembly	finish	note
.085"	R114 152 000	1	yes	M13	Gold	
.085"	R114 169 000●	2	yes	M07	Gold	cable bending required

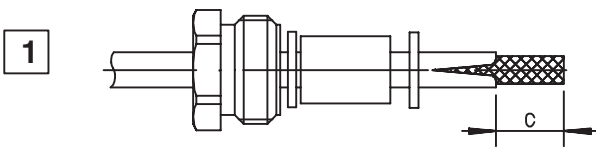
● upon request

* packaging: unit

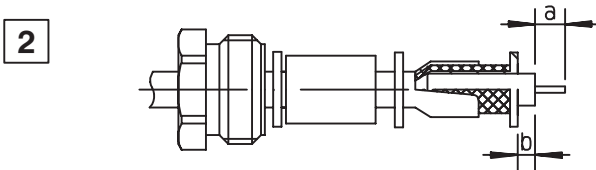
M 04



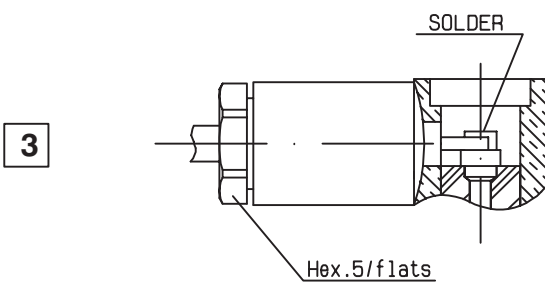
P/N	STRIPPING DIM.			RECOMMENDED COUPLING TORQUE
	a	b	c	
R114 163 000 R114 165 000	1.5	2	4	40 N.cm



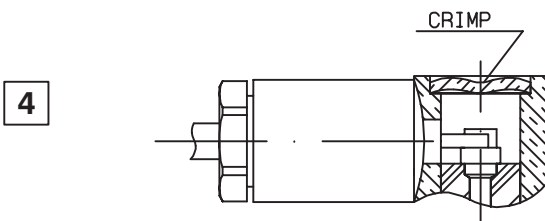
- 1.1 Slide the clamp nut, first washer, gasket, and the second washer onto the cable.
- 1.2 Strip the cable.
- 1.3 Cut 2 slots in the jacket if necessary.



- 2.1 Slide the clamp braid sleeve between the cable dielectric and braid.
- 2.2 Cut the braid flush with the clamp braid sleeve.



- 3.1 Screw the sub-assembly into the conductor body.
- 3.2 Solder the cable inner conductor.



- 4.1 Press the cap flush or slightly below surface of body assembly.