

TEST/CHARACTERISTICS	STANDARD REFERENCE	VALUES/REMARKS		
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### ELECTRICAL CHARACTERISTICS

Impedance		50 Ω		
Frequency range		DC-4 GHz		
Typical V.S.W.R. <i>Straight models cable group : 2/50, 2.6/50, 5/50, 10 + 11/50, .141"</i> <i>Right angle models 2/50, 2.6/50, 5/50,</i>		1 GHz 1.12	2.5 GHz 1.18 1.30 max	4 GHz 1.22
Insertion loss <i>straight connector</i> <i>right-angle connector</i>		0.05 0.08	0.07 0.16	0.13 0.20
RF Leakage		- 55 dB min from 2 to 3 GHz		
Insulation resistance		5000 MΩ min	5000 MΩ min	5000 MΩ min
Contact resistance <i>center contact</i> <i>outer contact</i>	MIL	1.5 mΩ 0.2 mΩ		
Working voltage in VRMS <i>at sea level</i> <i>(at 21 000m)</i>		500 125		
Dielectric withstanding voltage in VRMS <i>at sea level</i> <i>(at 21 000m)</i>		1500 375		
RF testing voltage in VRMS <i>sea level (5 MHz)</i>		1000		

### MECHANICAL CHARACTERISTICS

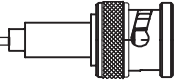
Durability		500 matings		
Force to engage and disengage <i>axial torque</i>		13.6 N max 28.6 Ncm		
Coupling nut retention force	MIL	445 N		
Cable retention force <i>cable 2/50, 2.6/50</i> <i>cable 5/50, 10 + 11/50</i> <i>cable .141"</i>		227 N		
Center contact retention force		27.2 N		

### ENVIRONMENTAL CHARACTERISTICS

Temperature range <i>flexible cables</i> <i>semi-rigid cables</i>	MIL	- 65°C + 165°C - 65°C + 105°C		
Thermo cycling test		MIL STD 202, method 107, condition B		
Thermal shock		MIL STD 202, method 107, condition B		
Hight temperature endurance		MIL STD 202, method 108		
Corrosion salt spray		MIL STD 202, method 101, condition B		
Vibration		MIL STD 202, method 204, condition B		
Shock		MIL STD 202, method 213, condition G		
Moisture resistance		MIL STD 202, method 106		
Hermetic test		MIL STD 202, method 112, condition C vacuum 10 <sup>-6</sup> Hgmm (Torr) leakage rate < 10 <sup>-6</sup> atm/cm <sup>3</sup> /s		
Barometric pressure		Pressure test : 3.5 bars; duration : 2 mn; temperature : 15° C to 25 °C		

# BNC 50 Ω

## CHARACTERISTICS



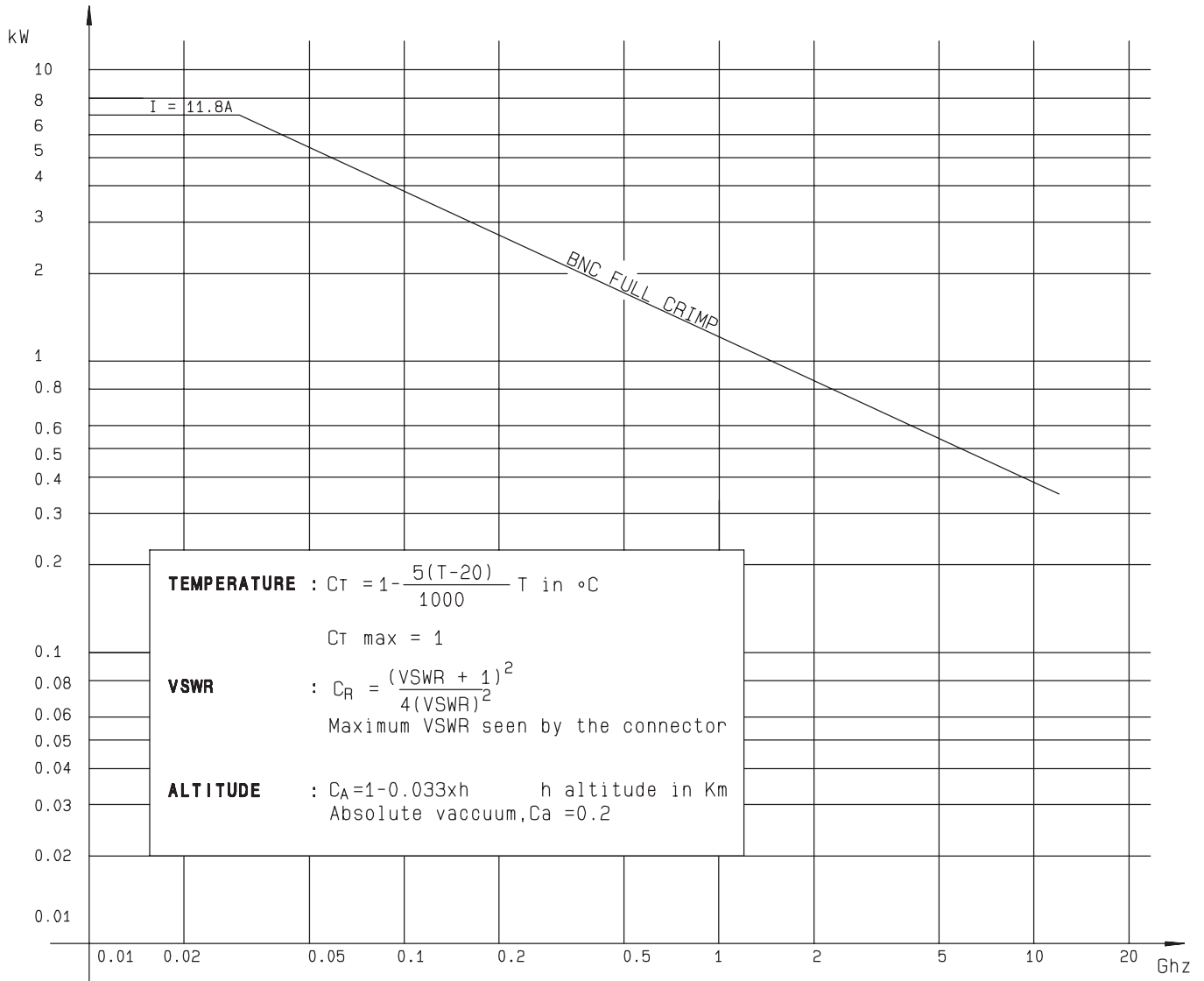
### MATERIALS

Bodies		Brass
Center contact	<i>male</i> <i>female</i>	Brass Bronze or heat treated beryllium following QQ-C-530
Nut		Brass
Insulator		PTFE
Gasket		Silicon rubber

### PLATINGS

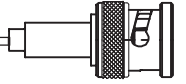
Bodies		Nickel
Center contacts		Gold

### POWER RATING



Standard packaging : unit

All dimensions are given in mm.



### RIGHT ANGLE PLUGS CLAMP TYPE FOR FLEXIBLE CABLES

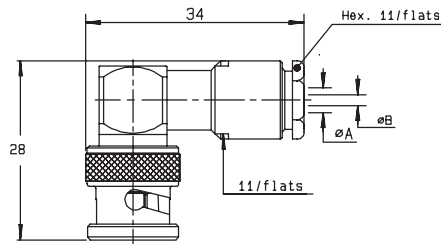


Fig. 1

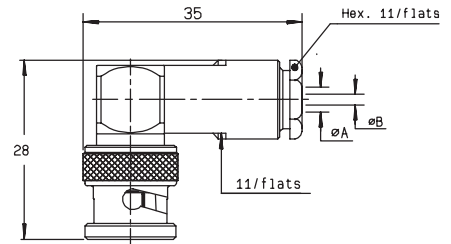
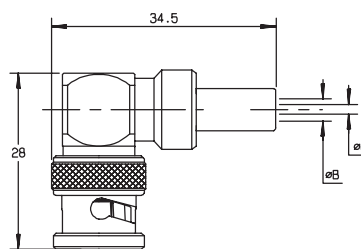


Fig. 2

cable	part number	fig.	dimensions		captive center contact	assembly
			A	B		
2 / 50/ S + D	R141 153 000	1	2.2	0.6	yes	M02
2.6 / 50/ S + D	R141 154 000	1	3.1	0.6	yes	M02
5 / 50/ S + D	R141 156 000	2	5.6	1.05	yes	M01

### RIGHT ANGLE PLUGS FULL CRIMP TYPE FOR FLEXIBLE CABLES

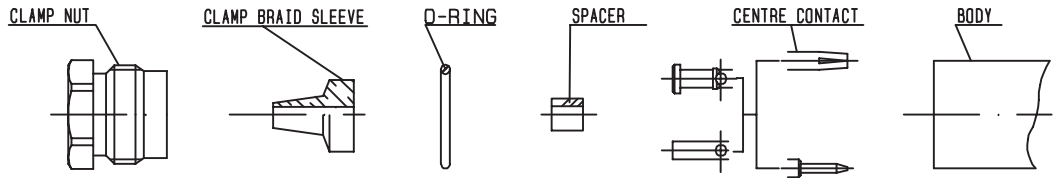


cable	part number	dimensions		captive center contact	assembly	note
		B	C			
5 / 50/ S	R141 182 000*	5.5	1.05	yes	M07	single piece body
5 / 50/ D	R141 183 000	5.8	1.05	yes	M07	single piece body

For others types of cables (75Ω, 93Ω or BT cables), please see "additional connectors" on page 36-37.

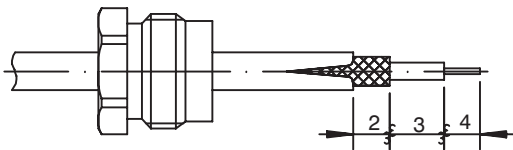
\* Packaging = 100 pieces.

### M 02



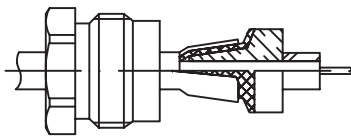
P/N			RECOMMENDED COUPLING TORQUE
R141 003 000	R141 253 000	R141 304 000	450 N.cm
R141 004 000	R141 254 000	R141 323 000	
R141 153 000	R141 277 000	R141 324 000	
R141 154 000	R141 278 000	R142 154 000	

1



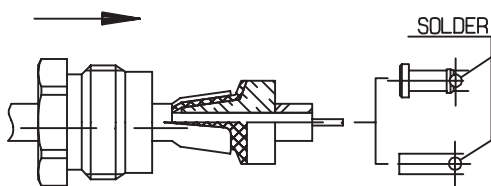
- 1.1 Slide clamp nut onto cable .
- 1.2 Strip the cable .
- 1.3 Cut the jacket ( 2 slots )  
apart if necessary .

2



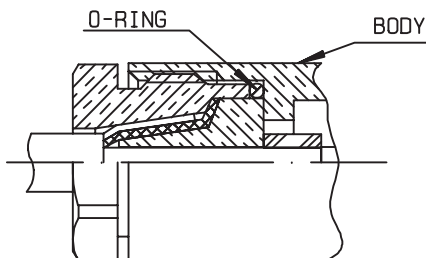
- 2.1 Slide the clamp braid sleeve between  
cable dielectric and braid .
- 2.2 Cut the braid flush with the clamp  
braid sleeve .
- 2.3 Slide the spacer .

3



- 3.1 Solder the cable inner conductor into  
centre contact .
- 3.2 Slide the back nut over the clamp  
assembly .

4



- 4.1 Mount the gasket into the connector .
- 4.2 Screw sub-assembly into the connector  
body .