

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

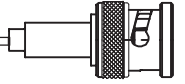
Durability		500 matings		
Force to engage and disengage <i>axial torque</i>		13.6 N max 28.6 Ncm		
Coupling nut retention force	MIL	445 N		
Cable retention force <i>cable 2/50, 2.6/50</i> <i>cable 5/50, 10 + 11/50</i> <i>cable .141"</i>		227 N		
Center contact retention force		27.2 N		

### 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



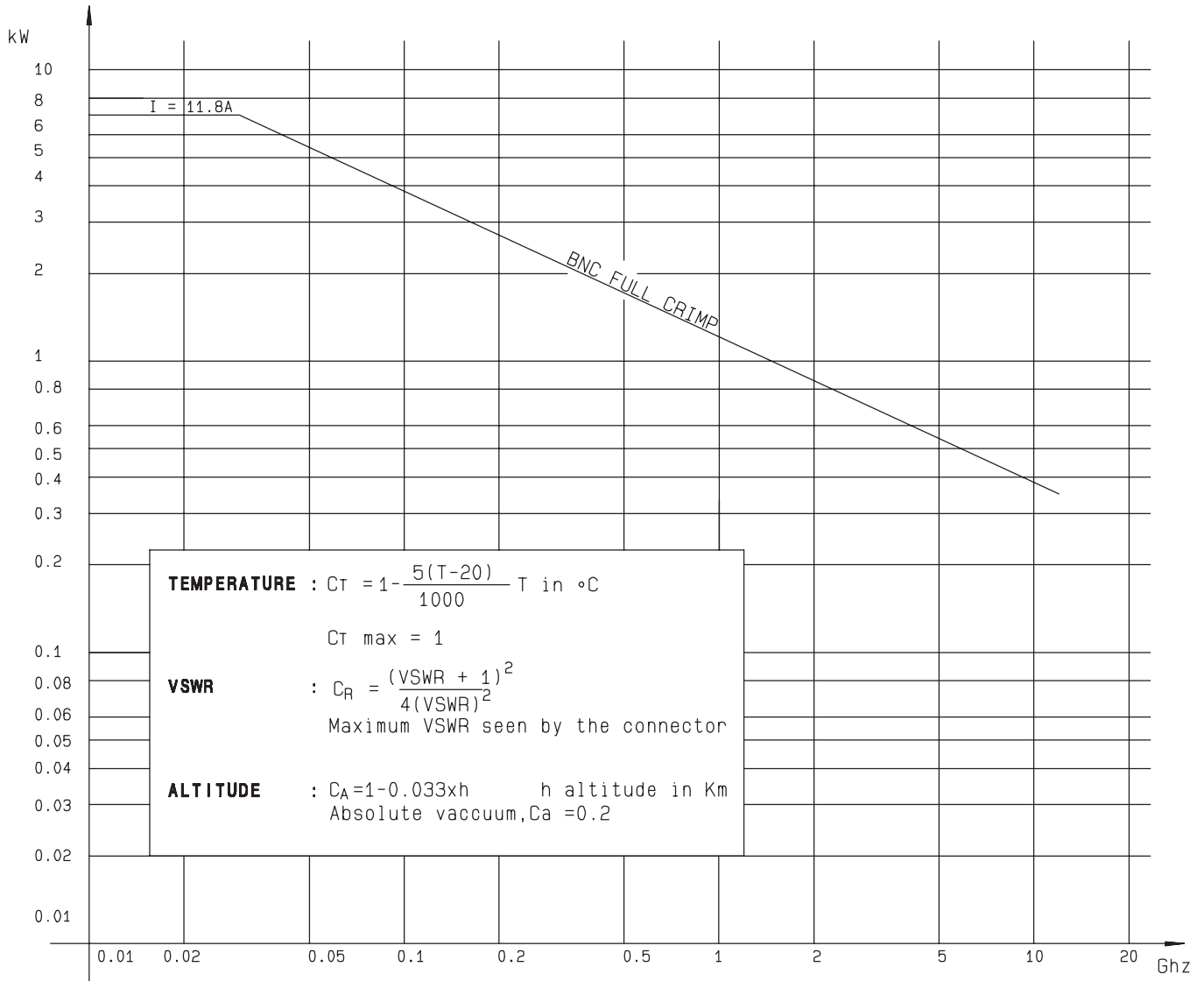
### MATERIALS

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

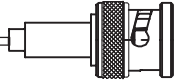
Bodies		Nickel
Center contacts		Gold

### POWER RATING



Standard packaging : unit

All dimensions are given in mm.



### STRAIGHT PLUGS CLAMP TYPE

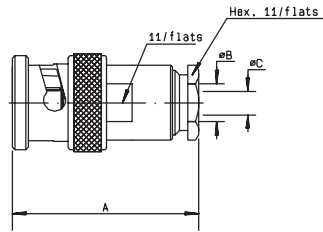


Fig. 1

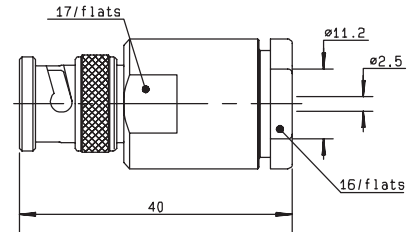


Fig. 2

cable	part number	fig.	dimensions			captive center contact	assembly	note
			A	B	C			
2 /50/ S + D	R141 003 000	1	27	2.2	0.6	yes	M02	
2.6 /50 S + D	R141 004 000*	1	27	3.1	0.6	yes	M02	
5 /50/ S + D	R141 009 000*	1	28	5.6	1.2	no	M01	
5 /50/ S + D	R141 010 000	1	28	5.6	1.05	yes	M01	
10 +11 /50 S +D	R141 018 000*	2				yes	M01	
.141"	R141 052 000	1	29	3.65	1.2	no	M10	semi-rigid cable

### STRAIGHT PLUGS FULL CRIMP TYPE FOR FLEXIBLE CABLES

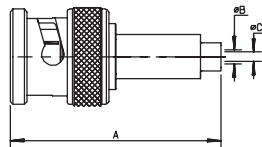


Fig. 1

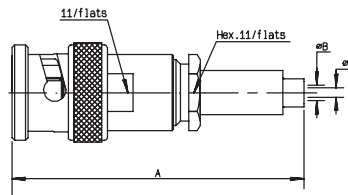


Fig. 2

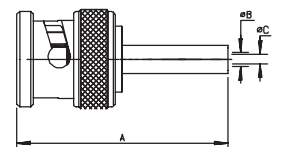


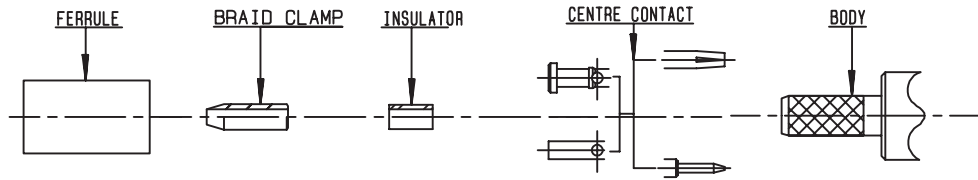
Fig. 3

cable	part number	fig.	dimensions			captive center contact	assembly	note
			A	B	C			
2.6 /50/ S	R141 075 000*	1	31	1.8	0.6	yes	M05	
5 /50/ S	R141 072 000	2	39	3.1	1.05	yes	M09	
5 /50/ S	R141 082 000*	3	28	3.1	1.05	yes	M07	single piece body
5 /50/ D	R141 083 000*	3	28	3	1.05	yes	M07	single piece body

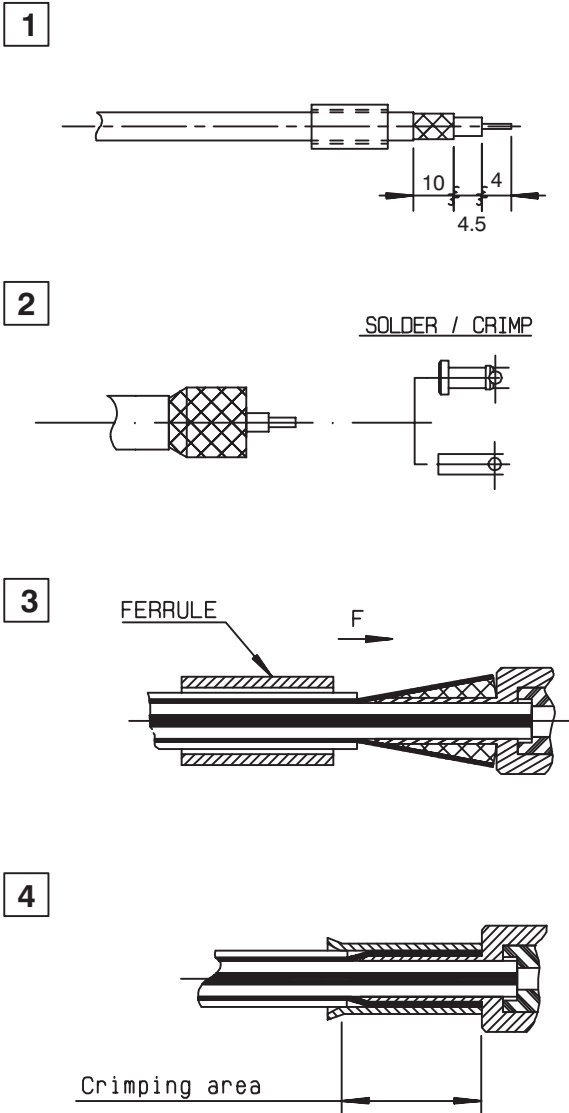
For others types of cables (75Ω, 93Ω or BT cables), please see "additional connectors" on page 36-37.

\* Packaging = 100 pieces.

### M 05



P/N	HEX. DIM.	FERRULE		CENTER CONTACT	
		STANDARD CRIMP-TOOLS DIES INCLUDED	MIL STANDARD R282 293 000 (M22520/5-01)+DIES	STANDARD CRIMP TOOLS DIES INCLUDED	MIL STANDARD R282 293 000 (M22520/5-01)+DIES
R141 075 000 R142 076 000 R141 217 000 R142 217 000 R141 301 000	1,73 - 5,4	R282 223 000	R282 235 011 (M22520/5-11)	R282 223 000	R282 235 011 (M22520/5-11)
R141 306 000 R141 331 400 R141 331 500 R142 331 011	1,73 - 6,48				R282 235 013 (M22520/5-13)



- 1.1 Slide onto the cable the ferrule
- 1.2 Strip the cable .

- 2.1 Fan the braid.
- 2.2 Slide the braid clamp and insulator between the dielectric and the braid.
- 2.3 Slide on centre contact until it bottoms against cable dielectrique . Solder or crimp.

- 3.1 Slide cable into the body until bottoms against insulator .
- 3.2 Slide ferrule over the braid . (In direction F)

- 4.1 Crimp the ferrule.
- 4.2 Cut the excess of braid .