

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

Impedance		75 Ω
Frequency range		DC-1 GHz
V.S.W.R. max <i>Straight models cable group : 2.6/75, 5/75, 6/75, 8/75, 10 + 11/75</i>		1.30
<i>Right angle models</i> 2.6/75, 6/75		1.35
Insertion loss <i>straight connector</i> <i>right-angle connector</i>		0.2 dB max at 1 GHz 0.3 dB max at 1 GHz
RF Leakage		- 55 dB min from 2 to 3 GHz
Insulation resistance		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</i> <i>torque</i>		13.6 N max 28.6 Ncm
Coupling nut retention force	MIL	445 N
Cable retention force <i>cable 2.6/75, 5/75, 6/75, 8/75, 10 + 11/75</i>		340 N
Center contact retention force		

### ENVIRONMENTAL CHARACTERISTICS

Temperature range <i>flexible cables</i>	MIL	- 65°C + 165°C
Thermo cycling test		MIL STD 202, method 107, condition B
Thermal shock		
High 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

### MATERIALS

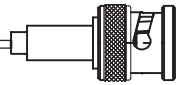
Bodies		Brass
Center contact <i>male</i> <i>female</i>		Brass Bronze or heat treated beryllium following QQ-C-530
Nut		Brass
Insulator		PTFE
Gasket		Silicon rubber

### PLATINGS

Bodies		Nickel
Center contacts		Gold

Standard packaging : unit

All dimensions are given in mm.



### STRAIGHT PLUGS CLAMP TYPE FOR FLEXIBLE CABLES

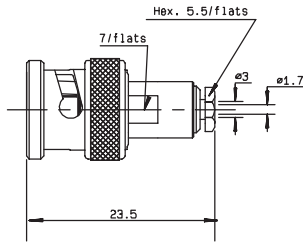


Fig. 1

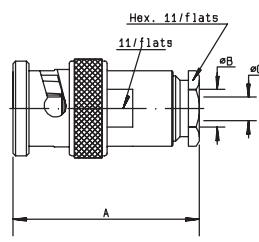


Fig. 2

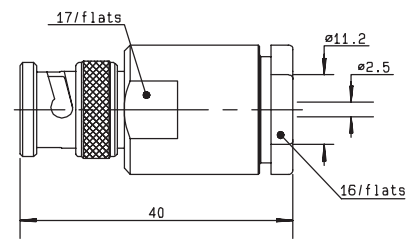


Fig. 3

cable	part number	fig.	dimensions			captive center contact	assembly
			A	B	C		
2.6 /75/ S	R142 004 000	1				yes	M04
6 /75/ S	R142 016 000	2	28	6.6	0.75	yes	M01
8 /75/ S + D	R142 017 000	2	45.5	9.1	1.5	yes	M03
10 + 11 /75 S + D	R142 018 000	3				yes	M01

### STRAIGHT PLUGS FULL CRIMP TYPE FOR FLEXIBLE CABLES

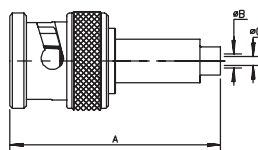


Fig. 1

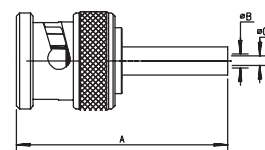


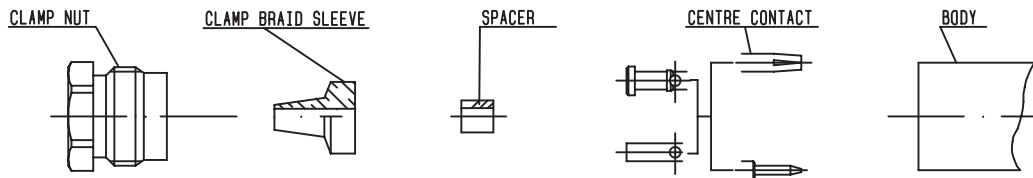
Fig. 2

cable	part number	fig.	dimensions			captive center contact	assembly	note
			A	B	C			
2.6 /75/ S	R142 076 000*	1	31	1.8	0.4	yes	M05	
5 /75/ D	R142 083 000	2	27.3	5.5	0.75	yes	M07	
6 /75/ S	R142 085 000*	2	28	6.6	0.75	yes	M07	single piece body
10 /75/ S	R142 095 000	2	28	11.05	1.35	yes	M07	single piece body

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

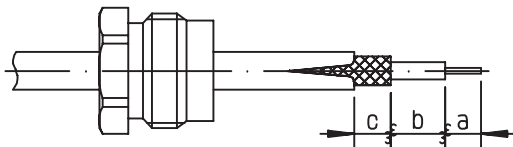
\* Packaging = 100 pieces.

### M 04



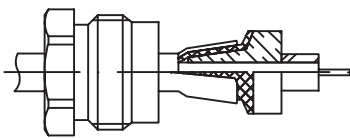
P/N	STRIPPING DIM.			RECOMMENDED COUPLING TORQUE
	a	b	c	
R142 004 000	4	3	2	40 N.cm
R142 202 000	3.5	3.5	1	

1



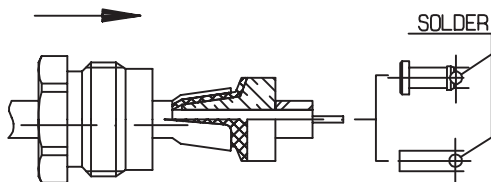
- 1.1 Slide clamp nut onto cable .
- 1.2 Strip the cable .
- 1.3 Cut the jacket ( 2 slots )  
apart if necessary .

2



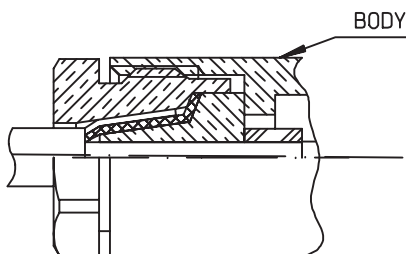
- 2.1 Slide the clamp braid sleeve between  
cable dielectric and braid .
- 2.2 Cut the braid flush with the clamp  
braid sleeve .
- 2.3 Slide the spacer .

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 .