

TEST/CHARACTERISTICS	STANDARD REFERENCE	VALUES/REMARKS
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ELECTRICAL CHARACTERISTICS

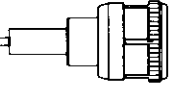
Impedance			50 Ω			
Frequency range			DC-11 GHz DC - 2 GHz <i>for COAXI-KITS</i>			
V.S.W.R. (typ.)	Frequency		1 GHz	2.5 GHz	5 GHz	11 GHz
Straight models cable group :	.085"		1.03	1.03	1.05	1.08
	.141"		1.03	1.05	1.05	1.08
	.250"		1.03	1.03	1.05	1.07
	5 S + 5 D		1.05	1.06	1.1	1.16
	10 S + 11 D		1.04	1.05	1.09	1.2
Right angle models	5 S + D		1.04	1.05	1.18	
	10 S + 11 D		1.04	1.1	1.20	
Intermodulation product (IMP ₃) <i>Standard connectors</i> <i>Intermodulation connectors</i> <i>Home made intermodulation cable assemblies</i>			- 90 dBm typ. (-133 dBc typ. / 20W) - 110 dBm typ. (-153 dBc typ. / 20 W) - 125 dBm typ. (-165 dBc typ. / 20W)			
Insertion loss	<i>straight connector</i> <i>right-angle connector</i>	MIL	< 0.15 dB max at 10 GHz ~ < 0.05√F(GHz) < 0.15 dB max at 10 GHz ~ < 0.1 √F(GHz)			
RF Leakage		MIL	- 90 dB min from 2 to 3 GHz (interface)			
Insulation resistance		MIL	5000 MΩ min			
Contact resistance	<i>center contact</i> <i>outer contact</i>	MIL	Initial 1 mΩ 0.2 mΩ		After tests 1.5 mΩ	
Working voltage in VRMS	<i>at sea level</i> <i>(at 70, 000 feet)</i>	CECC	850 cable 5 / 50 (250 cable 5 / 50) 850 cable LMR200 (250 cable LMR200) 350 cable .085" / .141" (250 cable .085" / .141")	1400 cable 10+11/50 (400 cable 10+11/50) 1400 cable LMR 400/600 (400 cable LMR 400/600) 1400 cable .250 (400 cable .250)		
Dielectric withstanding voltage in VRMS	<i>at sea level</i> <i>(at 70, 000 feet)</i>	CECC	1500 cable 5 / 50 (350 cable 5 / 50) 1500 cable LMR200 (350 cable LMR200) 1000 cable .085" / .141" (350 cable .085 / .141")	2500 cable 10/50 (600 cable 10/50) 2500 cable LMR400/600 (600 cable LMR400/600) 2500 cable .250 (600 cable .250)		
RF testing voltage	<i>sea level</i>	CECC	1500 VRMS (5 MHz sine wave)			

MECHANICAL CHARACTERISTICS

Durability		CECC	500 matings			
Force to engage and disengage		CECC	6.6 Ncm max (.58 Inch-pounds)			
Recommended coupling nut torque			40 to 60 Ncm (manual) 130 Ncm (11.45 inch pounds) (with pliers R 282 202 000) 170 Ncm (14.96 inch pounds) (with torque wrench R 282 303 020)			
Proof torque		CECC	170 Ncm (14.96 inch pounds)			
Coupling nut retention force		CECC	450 N (101.25 Lbs)			
Cable retention force	<i>cable 5/50</i> <i>cable 10/50</i> <i>cable 11/50</i> <i>cable .141"</i>	CECC	150 N (33.75 Lbs) <i>Single braid</i> 200 N (48 Lbs) <i>Double braid</i> 300 N (67.5 Lbs) 400 N (90 Lbs) 270 N (60.75 Lbs)			
Center contact retention force	<i>axial</i>	MIL	27 N (6.08 Lbs) <i>cables < Ø 8 mm</i> 68 N (15.30 Lbs) <i>cables > Ø 8 mm</i>			

ENVIRONMENTAL CHARACTERISTICS

Temperature range	<i>standard models</i> <i>semi-rigid cables</i>	CECC	- 55°C + 155°C - 55°C + 105°C			
Thermo cycling test		CECC	- 55°C / + 155°C / 21 j.			
Thermal shock		CECC	- 40°C / + 155°C or - 40°C / + 85°C - 5 cycles			
High temperature test		CECC	125°C / 1000 H			
Corrosion salt spray		CECC	48 H			



ENVIRONMENTAL CHARACTERISTICS

Vibration	CECC	Sinus 10 g / 10 - 500 Hz
Shock	CECC	1/2 Sinus 50g / 11 ms
Moisture resistance	IEC 529	IP 67 IP 65 (with heatshrink sleeve)
Hermetic test	CECC	10-5 bar. cm ³ /s
Leakage	CECC	Differential pressure 100 to 110 KPa : 1 bar cm ³ / H

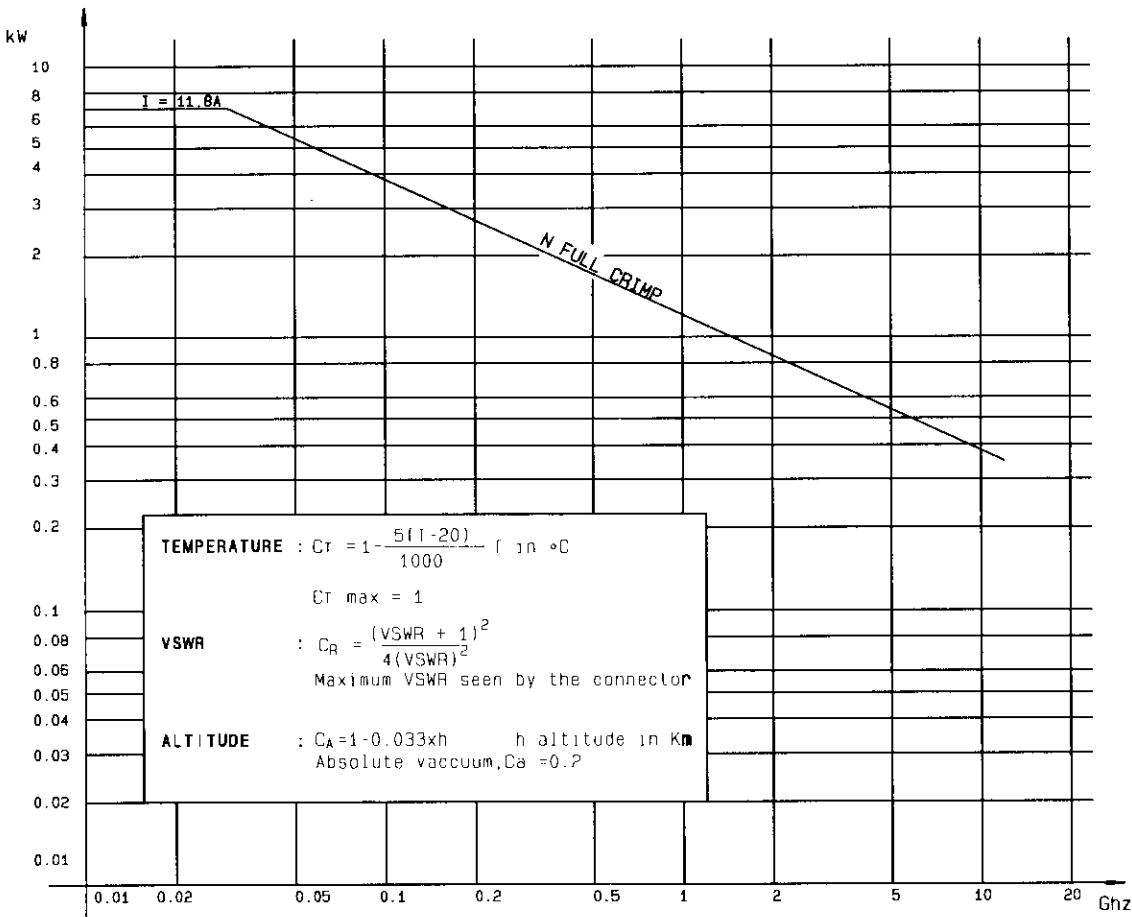
MATERIALS

Body / nut / center male contact / outer contact		brass
Center female contact		Treated beryllium copper
Ferrule		Brass
Insulator		PTFE
Gasket		Silicon elastomer

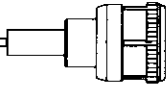
PLATINGS

		Standard	Intermodulation models + COAXI-KIT
Body	<i>crimp + clamp type</i> <i>solder type</i>	BBR Gold	Silver + BBR Silver
Coupling nut / Design		BBR / cross knurled	BBR / hex.
Center contacts		Gold	Silver
Outer contacts / Design		BBR / slotted	Silver + BBR / non slotted

POWER RANGE



Some connectors may feature different performance depending on the application they have been designed for, or according to the applicable cable.



BULKHEAD STRAIGHT JACKS, CLAMP TYPE, FOR FLEXIBLE CABLES (PANEL SEALED)

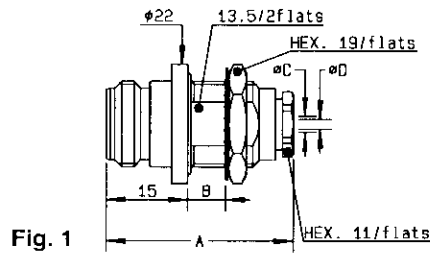
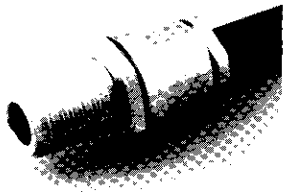


Fig. 1

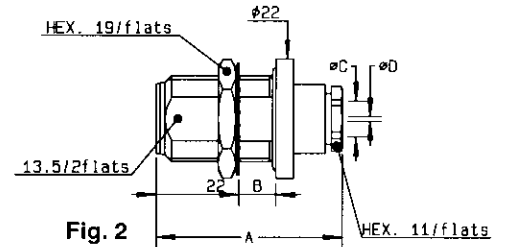


Fig. 2

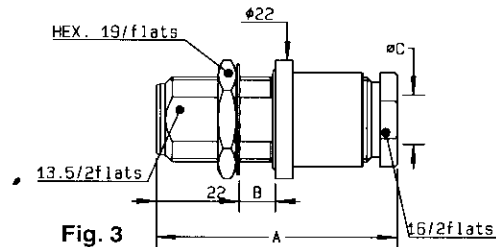


Fig. 3

cable group	part number	fig.	dimensions (mm)				captured center contact	mounting	panel	note
			A	B	C	D				
2.6 / 50 / S + D	R161 321 000	1	34.3	8	3.1	1.7	YES	M01	P10	Front mount
2.6 / 50 / S + D	R161 322 000	2	34.3	6.5	3.1	1.7	YES	M01	P10	Rear mount
5 / 50 / S + D	R161 325 000	2	35.4	6.5	5.6		YES	M01	P10	Rear mount
10 + 11 / 50 / S + D	R161 332 000	3	43	6.5	11.2		NO	M04	P10	Rear mount

BULKHEAD STRAIGHT JACKS, CLAMP TYPE, FOR CORRUGATED CABLES (PANEL SEALED)

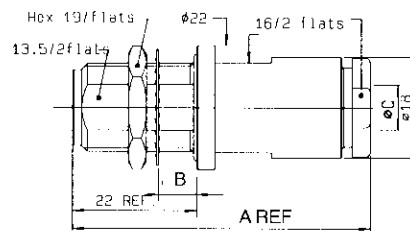


Fig. 1

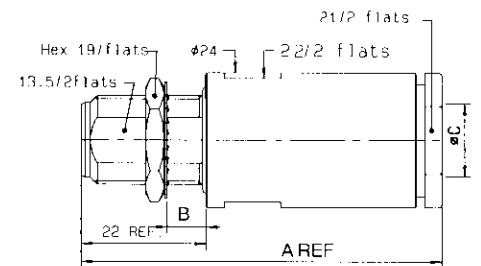
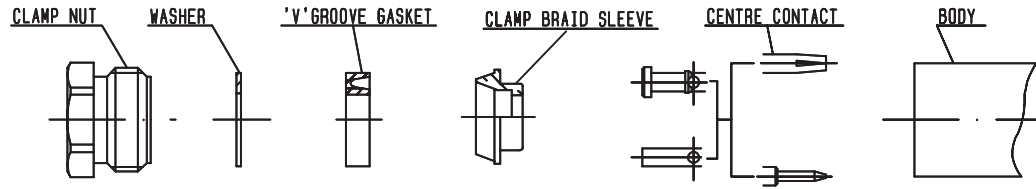


Fig. 2

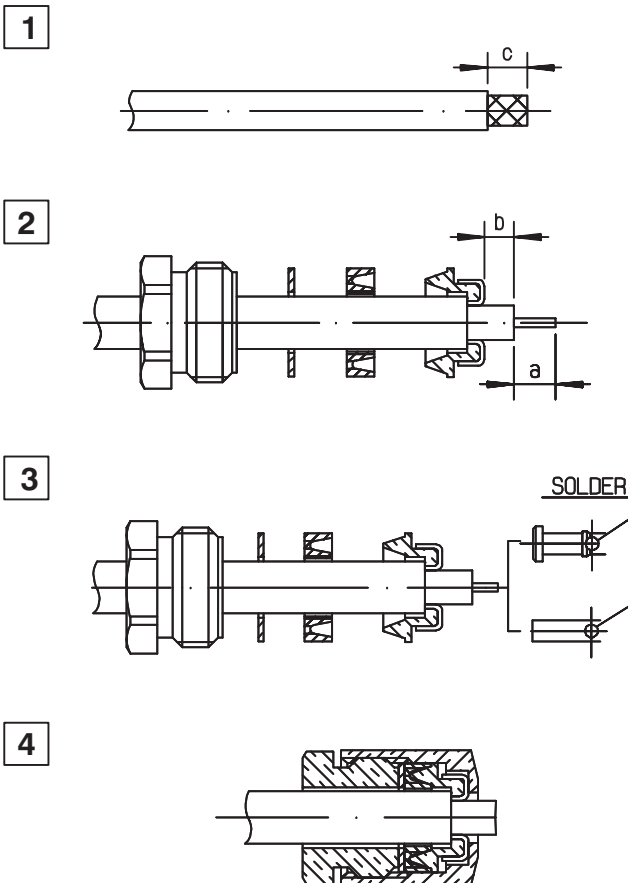
cable group	part number	fig.	dimensions (mm)			captured center contact	mounting	panel	note
			A	B	C				
1/4" spiraled	R161 341 007	1	52.7	6.5	7.9	YES	M22	P10	For intermodulation application
3/8" spiraled	R161 341 207	2	66	6.5	11	YES	M22	P10	For intermodulation application
1/2" spiraled	R161 341 407	2	66	6.5	14	YES	M22	P10	For intermodulation application

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

M 01



P/N	STRIPPING DIM.			RECOMMENDED COUPLING TORQUE
	a	b	c	
R141 009 000 R141 010 000	4.5	2.5	8.5	450 N.cm
R141 013 000	5.5	0.5	6	
R142 016 000	2.5	3	7	
R141 018 000 R142 018 000	3	1	9	
R141 156 000 R142 157 000	2.5	3	7	
R141 207 000	3	1	9	
R141 208 000 R141 258 000 R141 259 000 R142 268 000 R141 327 000 R142 329 000	2.5	3	7	

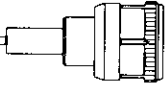


1.1 Strip the cable .

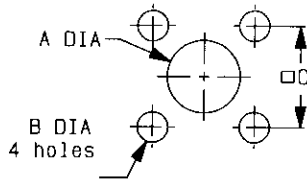
- 2.1 Slide the clamp nut , the washer and the 'V'groove gasket onto the cable .
- 2.2 Slide clamp braid sleeve over braid .
- 2.3 Fold back braid and trim off excess braid .
- 2.4 Trim back dielectric as shown .

3.1 Solder the cable inner conductor into centre contact .

4.1 Screw sub-assembly into the connector body .

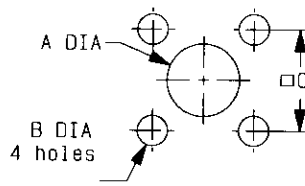


P01



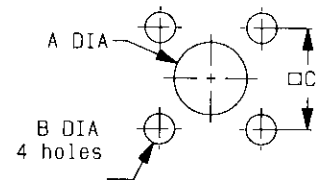
	MM		INCH	
	maxi	mini	maxi	mini
A	16.3	16.1	0.642	0.634
B	3.30	3.20	0.13	0.126
C	18.35	18.15	0.722	0.715

P02



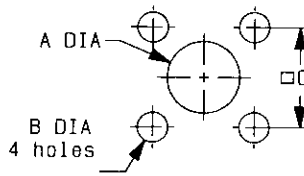
	MM		INCH	
	maxi	mini	maxi	mini
A	15.1	14.9	0.594	0.587
B	3.30	3.20	0.13	0.126
C	18.35	18.15	0.722	0.715

P03



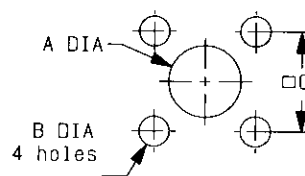
	MM		INCH	
	maxi	mini	maxi	mini
A	9.40	9.20	0.37	0.362
B	3.30	3.20	0.13	0.126
C	12.8	12.6	0.504	0.496

P04



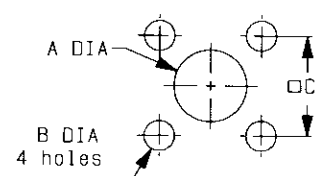
	MM		INCH		
	maxi	mini	maxi	mini	
A	Front	21.7	21.5	0.854	0.846
	Rear	19.7	19.5	0.776	0.768
B	3.30	3.20	0.13	0.126	
C	18.35	18.15	0.722	0.715	

P05



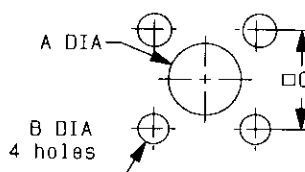
	MM		INCH		
	maxi	mini	maxi	mini	
A	Front	16.3	16.1	0.642	0.634
	Rear	18	17.8	0.709	0.701
B	3.30	3.20	0.13	0.126	
C	18.35	18.15	0.722	0.715	

P06



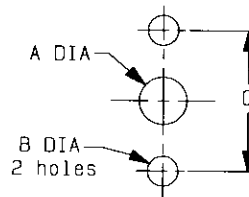
	MM		INCH		
	maxi	mini	maxi	mini	
A	Front	16.3	16.1	0.642	0.634
	Rear	19.7	19.5	0.776	0.768
B	3.30	3.20	0.13	0.126	
C	18.35	18.15	0.722	0.715	

P07



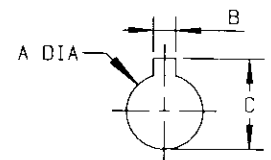
	MM		INCH		
	maxi	mini	maxi	mini	
A	Front	16.3	16.1	0.642	0.634
	Rear	15.1	14.9	0.594	0.587
B	3.30	3.20	0.13	0.126	
C	18.35	18.15	0.722	0.715	

P08



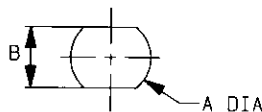
	MM		INCH	
	maxi	mini	maxi	mini
A	5	4.80	0.197	0.189
B	3.30	3.20	0.13	0.126
C	18.1	17.9	0.713	0.705

P09



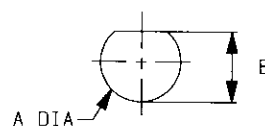
	MM		INCH	
	maxi	mini	maxi	mini
A	14.3	14.1	0.563	0.555
B	2.30	2.20	0.091	0.087
C	17	16.8	0.669	0.661

P10



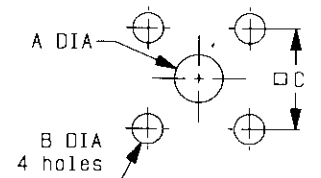
	MM		INCH	
	maxi	mini	maxi	mini
A	16.1	16	0.634	0.63
B	13.7	13.6	0.539	0.535

P11



	MM		INCH	
	maxi	mini	maxi	mini
A	14.3	14.1	0.563	0.555
B	13.8	13.6	0.543	0.535

P12



	MM		INCH	
	maxi	mini	maxi	mini
A	1.45	1.35	0.057	0.053
B	3.23	3.13	0.127	0.123
C	10.21	10.11	0.402	0.398