

TEST/CHARACTERISTICS	STANDARD REFERENCE	VALUES/REMARKS
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ELECTRICAL CHARACTERISTICS

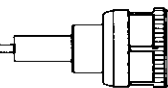
Impedance		50 Ω
Frequency range		DC - 11 GHz DC - 2 GHz <i>for COAXI-KITS</i>
V.S.W.R. (typ.)	Frequency	1 GHz 2.5 GHz 5 GHz 11 GHz
Straight models cable group :	.085"	1.03 1.03 1.05 1.08
	.141"	1.03 1.05 1.05 1.08
	.250"	1.03 1.03 1.05 1.07
	5 S + 5 D	1.05 1.06 1.1 1.16
Right angle models	10 S + 11 D	1.04 1.05 1.09 1.2
	5 S + D	1.04 1.05 1.18 1.2
	10 S + 11 D	1.04 1.1 1.20 1.2
Intermodulation product (IMP ₃)		
Standard connectors		- 90 dBm typ. (-133 dBc typ. / 20W)
Intermodulation connectors		- 110 dBm typ. (-153 dBc typ. / 20 W)
Home made intermodulation cable assemblies		- 125 dBm typ. (-165 dBc typ. / 20W)
Insertion loss	straight connector right-angle connector	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	center contact outer contact	MIL Initial 1 mΩ 0.2 mΩ After tests 1.5 mΩ
Working voltage in VRMS	at sea level (at 70, 000 feet)	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	at sea level (at 70, 000 feet)	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	sea level	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	cable 5/50 cable 10/50 cable 11/50 cable .141"	CECC 150 N (33.75 Lbs) Single braid 200 N (48 Lbs) Double braid 300 N (67.5 Lbs) 400 N (90 Lbs) 270 N (60.75 Lbs)
Center contact retention force	axial	MIL 27 N (6.08 Lbs) cables < Ø 8 mm 68 N (15.30 Lbs) cables > Ø 8 mm

ENVIRONMENTAL CHARACTERISTICS

Temperature range	standard models semi-rigid cables	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
Hight 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 <i>clamp type</i> <i>crimp type</i>	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

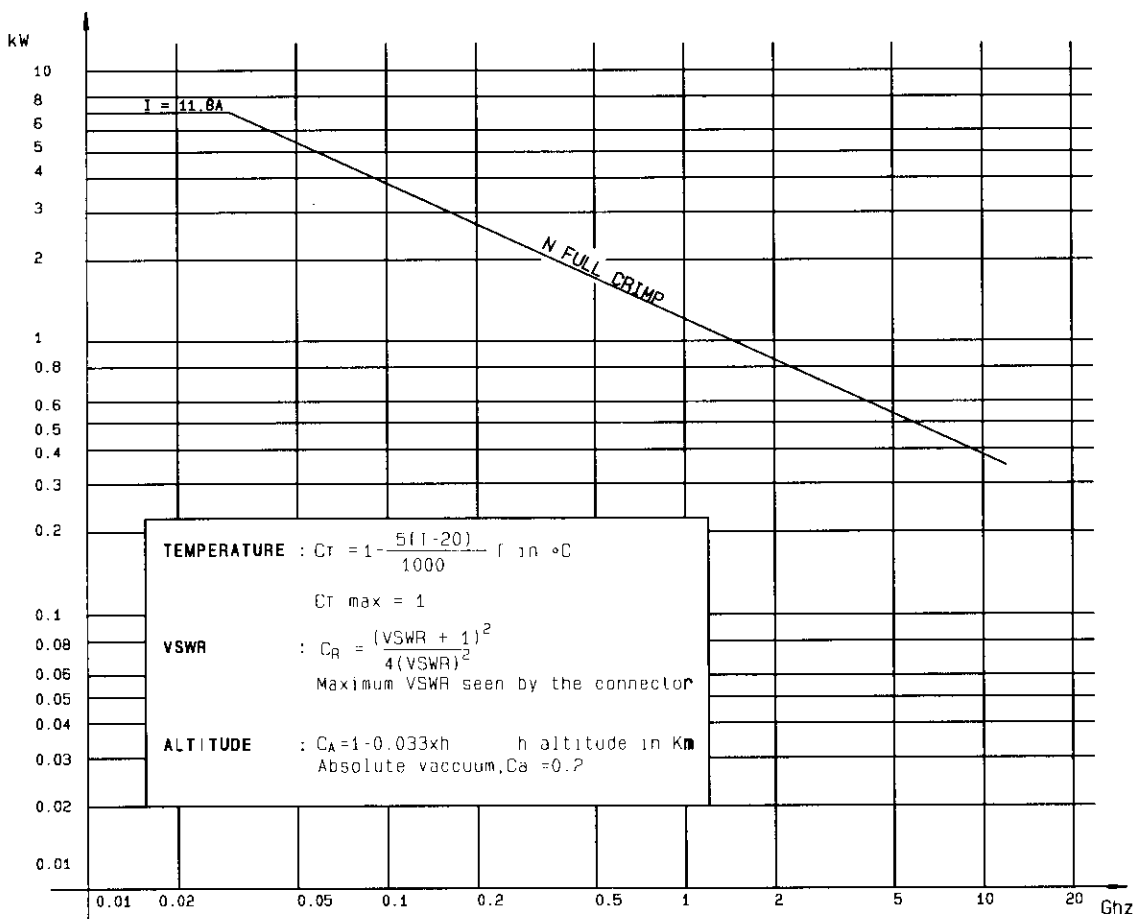
MATERIALS

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

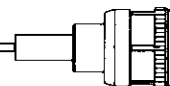
PLATINGS

		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)

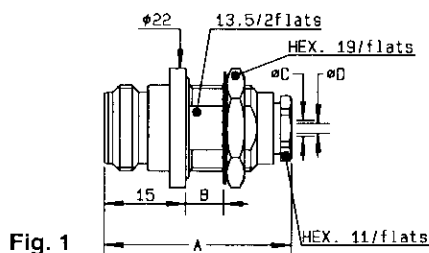
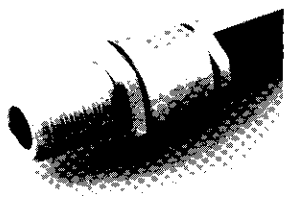


Fig. 1

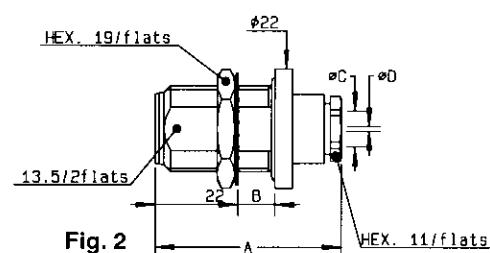


Fig. 2

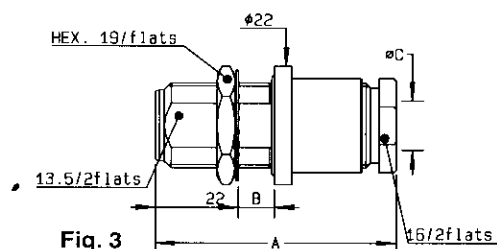


Fig. 3

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)

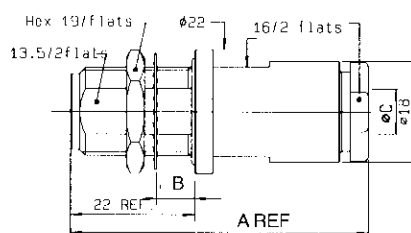


Fig. 1

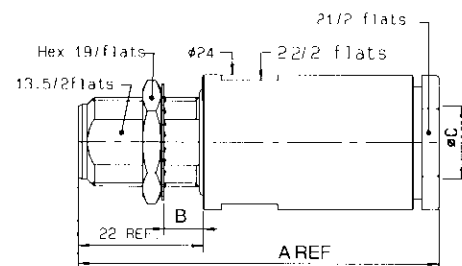
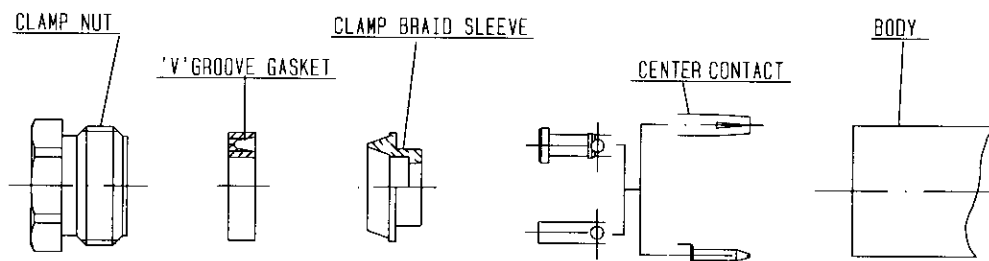


Fig. 2

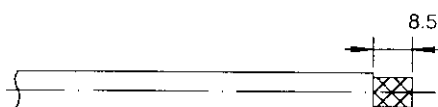
cable group	part number	fig.	dimensions (mm)			captured center contact	mounting	panel	note
			A	B	C				
1/4" spiraled	R161 341 007	1	52.7	6.5	7.9	YES	M22	P10	For intermodulation application
3/8" spiraled	R161 341 207	2	66	6.5	11	YES	M22	P10	For intermodulation application
1/2" spiraled	R161 341 407	2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

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

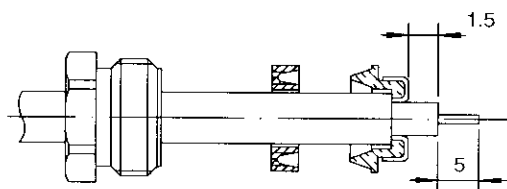
M 04



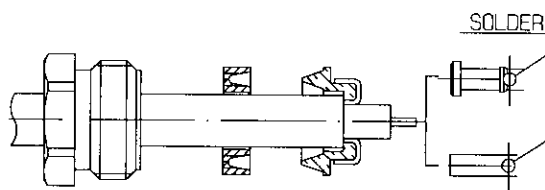
1



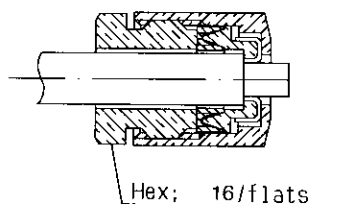
2



3



4



CONNECTORS

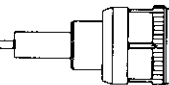
R161 020 000
R161 332 000R162 017 000
R162 217 000
R162 267 000
R162 332 000

1.1 Strip the cable.

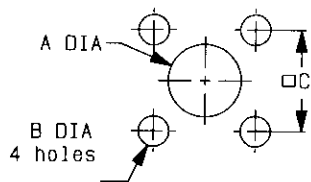
- 2.1 Slide the clamp nut and the 'V' groove gasket onto the cable.
 2.2 Slide clamp braid sleeve over braid.
 2.3 Fold back braid and trim off excess of braid.
 2.4 Trim back dielectric as shown.

3.1 Solder the cable inner conductor into center contact.

4.1 Screw sub-assembly into the connector body.
 (recommended coupling torque 70.87 in.lb - 800 Ncm).

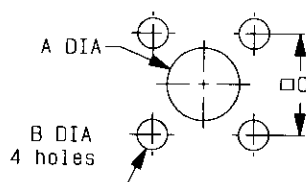


P01



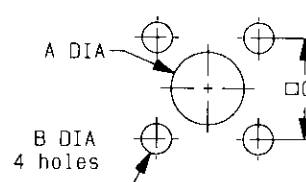
	MM		INCH	
	maxi	mini	maxi	mini
A	16.3	16.1	0.642	0.634
B	3.30	3.20	0.13	0.126
C	18.35	18.15	0.722	0.715

P02



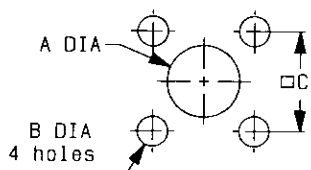
	MM		INCH	
	maxi	mini	maxi	mini
A	15.1	14.9	0.594	0.587
B	3.30	3.20	0.13	0.126
C	18.35	18.15	0.722	0.715

P03



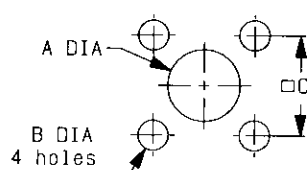
	MM		INCH	
	maxi	mini	maxi	mini
A	9.40	9.20	0.37	0.362
B	3.30	3.20	0.13	0.126
C	12.8	12.6	0.504	0.496

P04



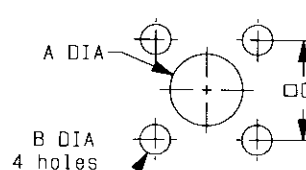
		MM		INCH	
		maxi	mini	maxi	mini
A	Front	21.7	21.5	0.854	0.846
	Rear	19.7	19.5	0.776	0.768
B		3.30	3.20	0.13	0.126
C		18.35	18.15	0.722	0.715

P05



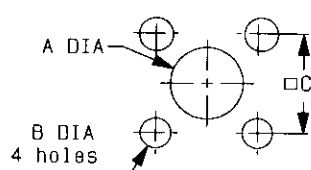
		MM		INCH	
		maxi	mini	maxi	mini
A	Front	16.3	16.1	0.642	0.634
	Rear	18	17.8	0.709	0.701
B		3.30	3.20	0.13	0.126
C		18.35	18.15	0.722	0.715

P06



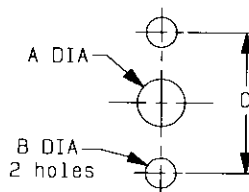
		MM		INCH	
		maxi	mini	maxi	mini
A	Front	16.3	16.1	0.642	0.634
	Rear	19.7	19.5	0.776	0.768
B		3.30	3.20	0.13	0.126
C		18.35	18.15	0.722	0.715

P07



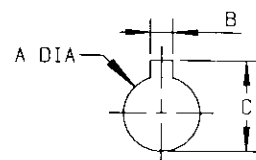
		MM		INCH	
		maxi	mini	maxi	mini
A	Front	16.3	16.1	0.642	0.634
	Rear	15.1	14.9	0.594	0.587
B		3.30	3.20	0.13	0.126
C		18.35	18.15	0.722	0.715

P08



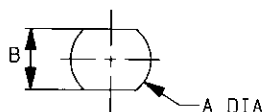
		MM		INCH	
		maxi	mini	maxi	mini
A		5	4.80	0.197	0.189
B		3.30	3.20	0.13	0.126
C		18.1	17.9	0.713	0.705

P09



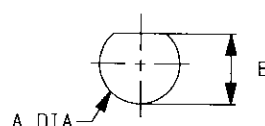
		MM		INCH	
		maxi	mini	maxi	mini
A		14.3	14.1	0.563	0.555
B		2.30	2.20	0.091	0.087
C		17	16.8	0.669	0.661

P10



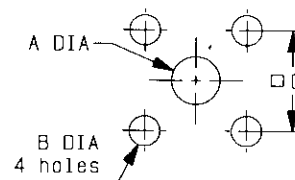
		MM		INCH	
		maxi	mini	maxi	mini
A		16.1	16	0.634	0.63
B		13.7	13.6	0.539	0.535

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