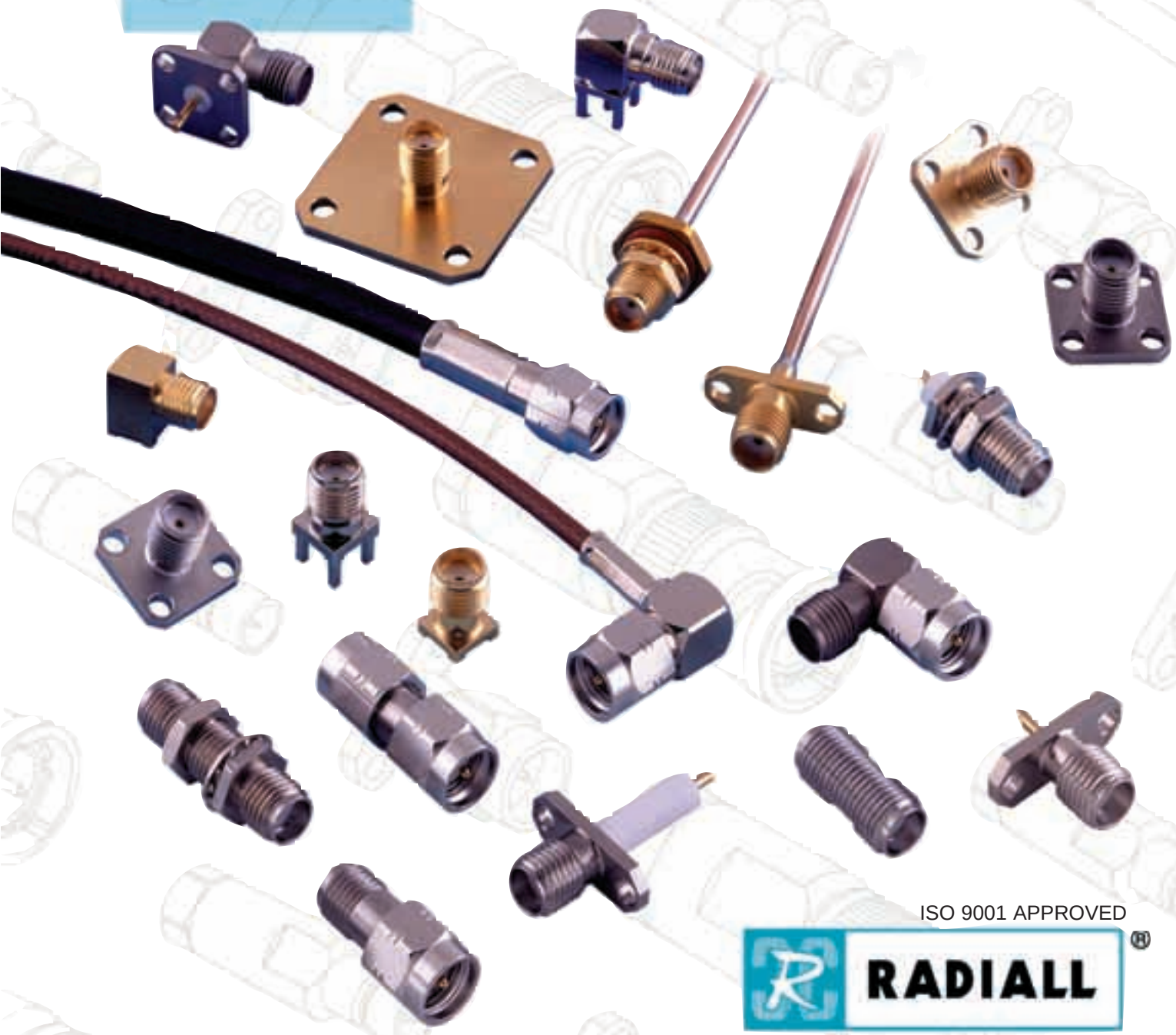
SUBMINIATURE COAXIAL CONNECTORS

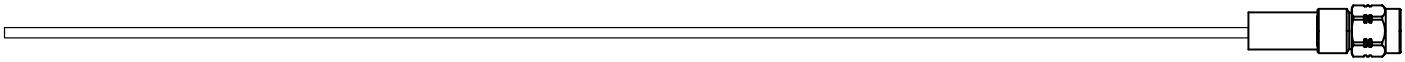
Commercial SMA series



ISO 9001 APPROVED

RADIALL®

CONTENTS



Page

RADIALL COMPANY PROFILE

Head Office - Rosny sous Bois

Since 1952, **RADIALL** has specialized in the field of coaxial connectors and cables assemblies. **RADIALL**'s experience and high technology focus, combined with our large worldwide production capability have made the company a major supplier of RF coaxial connectors in the world and the number one in Europe.

RESEARCH & DEVELOPMENT

The ever increasing sophistication of microwave communication systems is continually requiring components to meet a higher level of performance. **RADIALL**'s research and development groups understand these needs and are committed to searching for product solutions that will be needed in the future. They also are providing continued improvements to our already extensive lines of high performance products. All our engineer teams are equipped with state of the art equipment and facilities, in an effort to provide the best solutions to our customers.

CAD workstation

Screw-machining shop

MANUFACTURING

RADIALL knows that the quality of the connectors components is directly related to the mechanical precision of the machining process, along with good quality procedures. In an effort to continually meet the highest quality standards, all our production plants are equipped with the latest state of the art production equipment. RADIALL's manufacturing process maintains strict control of all procedures and incorporates all tooling, machining, surface treatment and assembly operations into the manufacturing process of each production group.

RADIALL COMPANY PROFILE

Base station of cellular network

HIGH RELIABILITY

Reliability of inter-connection systems is of the utmost importance in telecommunications applications. This industry need has led **RADIALL** to link high performance design, manufacturinfg and quality control. This has given the company the capability to produce connectors that will operate in the most stringent environments. The wide range of our product offering allows us to propose the best complete solution for your exact need.

Microwave test device

QUALITY ASSURANCE

RADIALL, as a TQM company, continually searches for improvements to the quality process. We operate a Quality Assurance Program that has been developed in accordance with the national and **CECC** agencies (equivalent to **MIL-I-45208** and **MIL-C-45662** standards). This program has enabled us to achieve QPL approval on several of our connector series. **RADIALL**'s Quality Assurance Program operates at all levels of manufacturing from the initial raw incoming material to the final testing procedures just prior to shipping. All test equipment is part of the quality process and is continually inspected on a regular scheduled basis. All production plants in Europe are **AQA P4-NATO** certified.

BVQI

Certificate of Approval

Awarded to

RADIALL

DIVISION CONNECTEURS COAXIAUX
ROSNY-SOUS-BOIS - VOREPPE - VOIRON
FRANCE

Bureau Veritas Quality International certify that the Quality Management System of the above supplier has been assessed and found to be in accordance with the requirements of the quality standards detailed below

QUALITY STANDARD

BS EN ISO 9001 : 1994

SCOPE OF SUPPLY

DESIGN, DEVELOPMENT, PRODUCTION AND SALE OF RADIO FREQUENCY COAXIAL CONNECTORS AND CABLE ASSEMBLY. MANUFACTURING AND PLATING OF CONNECTION COMPONENTS.

CONCEPTION, DEVELOPPEMENT, PRODUCTION ET COMMERCIALISATION DE CONNECTEURS ET CORDONS COAXIAUX HAUTES FREQUENCES.
FABRICATION ET TRAITEMENT DE SURFACE DE COMPOSANTS POUR CONNECTIQUE.

FORSCHUNG, ENTWICKLUNG, PRODUKTION UND VERTRIEB VON HF-STECKVERBINDERN UND KABELN HERSTELLUNG UND OBERFLÄCHENBEHANDLUNG VON KOMPONENTEN FÜR STECKVERBINDER.

Original approval date. 6 March, 1994

Subject to the continued satisfactory operation of the Supplier's Quality Management System, this Certificate is valid for a period of three years from

27 April 1997

Date 29 May 1997

Jacques ROY

For Bureau Veritas Quality International

Certificate No: 41368

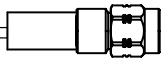
SP16B

ISO 9001 ACCREDITATION

This certificate is witness to RADIALL's achievement and commitment to the Total Quality Process. RADIALL has always been, since its inception, a company committed to being a Total Quality supplier. Quality is our way of life at RADIALL.

commercial SMA

FINDER GUIDE



CABLE CONNECTORS

model	straight plug		straight slide-on plug	right-angle plug		straight jack		straight jack bulkhead mount		straight jack square flange		straight jack narrow flange
cable	crimp/ full crimp	solder	crimp/or solder	crimp	solder	full crimp	solder	full crimp	solder (panel seal)	crimp/ full crimp	solder	solder
2/50/S (RG 178)	**R124 069 12x** (page 12)							**R124 310 02x** (page 15)		**R124 271 12x** (page 16)		
2.6/50/S (RG 316)	**R124 071 12x** (page 12)		**R124 072 520** (page 12)	**R124 172 12x** (page 13)		**R124 236 12x** (page 14)		**R124 312 12x** (page 15)		**R124 272 12x** (page 16)		
2.6/50/D (RD 316)	**R124 072 22x** (page 12)			**R124 174 12x** (page 13)		**R124 233 12x** (page 14)		**R124 313 12x** (page 15)		**R124 274 12x** (page 16)		
5/50/S (RG 58)	**R124 075 32x** (page 12)			**R124 175 12x** (page 13)				**R124 314 12x** (page 15)		**R124 277 12x** (page 16)		
5/50/S (LMR200)	**R124 075 200** (page 12)											
5/50/D (RG 142)	**R124 076 32x** (page 12)			**R124 176 12x** (page 13)				**R124 315 12x** (page 15)		**R124 278 12x** (page 16)		
5.7/50/D (TZC50019)				**R124 176 220** (page 13)								
10.3/50/S (LMR400)	**R124 080 030** (page 12)											
.085 (RG 405)		**R124 052 003** (page 12)	**R124 052 520** (page 12)		**R124 153 00x** (page 13)		**R124 222 xxx** (page 14)		**R124 326 00x** (page 15)		**R124 256 00x** (page 16)	**R124 252 00x** (page 16)
.141 (RG 402)		**R124 054 00x** (page 12)			**R124 154 00x** (page 13)		**R124 225 xxx** (page 14)		**R124 325 00x** (page 15)		**R124 255 00x** (page 16)	**R124 251 00x** (page 16)

RECEPTACLES

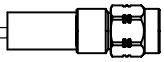
model	panel female receptacle					PCB female receptacle	
		straight flange mount		right-angle flange	straight bulkhead mount	straight	right-angle
back	square (12.7 mm)	square (25.4 mm)	narrow (5.65 mm)	square (12.7 mm)			
solder contact with solder pot	**R124 403 12x** (page 18)		**R124 454 12x** (page 19)	**R124 654 00x** (page 20)	**R124 553 12x** **R124 581 020** (page 20)		
solder contact slotted	**R124 498 0xx** (page 18)	**R124 409 50x** (page 18)					
solder contact cylindrical	**R124 414 00x** **R124 415 27x** (page 18)		**R124 464 xxx** (page 19)				
solder contact with custom back length	**R124 413 30x** **R124 414 30x** **R124 416 30x** (page 18)		**R124 463 30x** **R124 464 30x** **R124 466 30x** (page 19)				
solder contact flat tab	**R124 510 00x** (page 18)						
removable contact (universal receptacle)	**R124 410 00x** (page 19)						
solder pins						**R124 426 xxx** (page 21)	**R124 680 xxx** (page 21)
surface mount technology						**R124 427 xxx** (page 21)	**R124 681 xxx** (page 21)

IN-SERIES ADAPTERS

model	straight	straight bulkhead
M - M	**R124 703 00x** (page 24)	
F - F	**R124 705 00x** (page 24)	**R124 720 00x** (page 24)
M - F	**R124 704 00x** (page 24)	

ATTENTION! This guide is intended as an information and does not include all COMMERCIAL SMA P/N

INTRODUCTION



The RADIALL commercial SMA connectors have been specially designed for applications where low installed costs are of the utmost importance. They are easy, fast to assemble and reliable and offer the perfect solution for high volume applications requiring high level performance like civil telecommunications, datacommunications or test and measurement.

- **Full compatibility :**

These commercial SMA connectors are fully compatible (interchangeable and intermateable) with all existing MIL standardised SMA connectors. They feature the same performance level except mechanical (life : 100 matings and coupling nut torque : 60 Ncm).

The coupling nut of the commercial SMA series features a special design which is different from the standard SMA coupling nut as the tightening torque is reduced.

- **Wide range :**

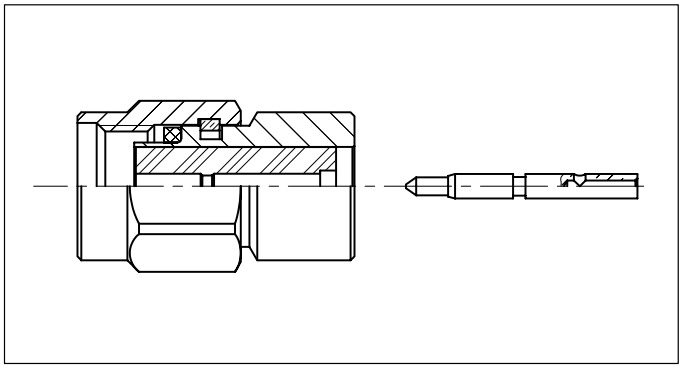
The commercial SMA range features models which are adapted to offer a solution for every standard coaxial flexible or semi-rigid cable as well as PCB models with traditional through-hole pins or solder pads for SMT applications.

- **Simple snap-in axial captivation (for full-crimp models) :**

The relative position of the centre contact into the interface is mechanically guaranteed by the snapping of the insulator inner shoulder into the groove of the centre contact.

This design facilitates the captivation operation in contrast to other designs, requiring 2 insulators to provide contact retention.

It assures constant perfect axial positioning of the center contact into the interface.



- **Space-saving size :**

Due to the captivation technique, these commercial SMA connectors are shorter than multi-piece body connectors.

- **Convenient 3-piece design :**

- for straight models: body + center contact + outer ferrule
- for right-angle models : single piece body + back cap + outer ferrule.

- **Fast and reliable cable attachment :**

The cable connectors can be either fully crimped or soldered/crimped, offering full flexibility for high volume industrial production with standard manual or pneumatic tooling : fast and reliable.

- the centre contact can be either crimped or soldered.
- the outer contact is attached to the cable by crimping a ferrule.

- **Industry adapted packaging :**

Standard packaging is 100 pieces bulk-pack. Unit packaging is available upon request. The PCB models can also be delivered in tube or tape & reel packaging.

- **Competitive pricing :**

The design and materials used in the manufacture of the commercial SMA range allow us to offer connectors at competitive prices to suit a wide range of applications. The connector body is manufactured in brass and the surface plating is available in either gold or in BBR finish (RADIALL non-magnetic bright bronze surface finish).

- **Center contact captivation :**

Our connectors have a captive center contact.

INTRODUCTION

50 Ω	DC - 18 GHz

GENERAL

- Subminiature coaxial connectors
- Screw-on coupling
- High RF performance
- 2 plating options : – BBR
  – Gold

APPLICABLE STANDARDS

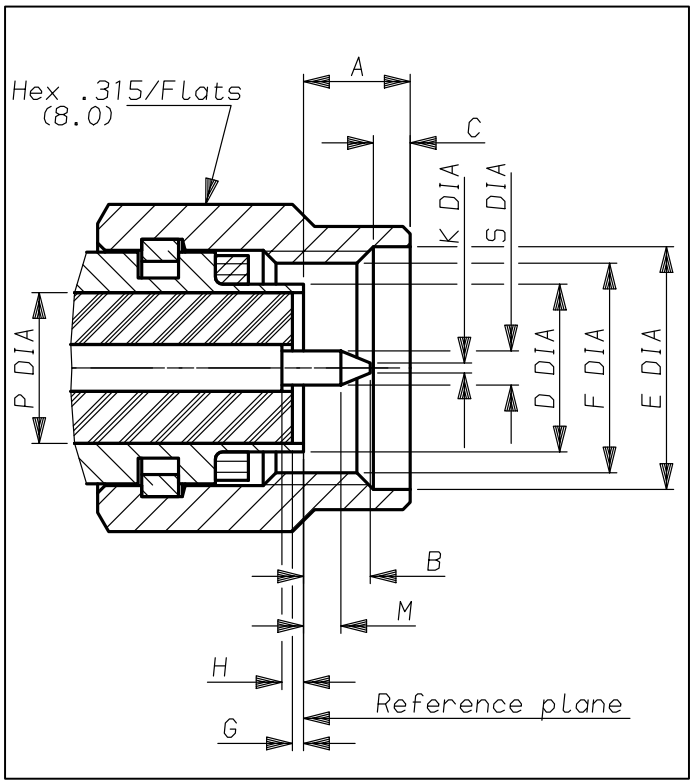
- MIL- C - 39012
- IEC 169-1
- CECC 22110
- CECC 22111 - 801 to 808
- BS 9210 N006

APPLICATIONS

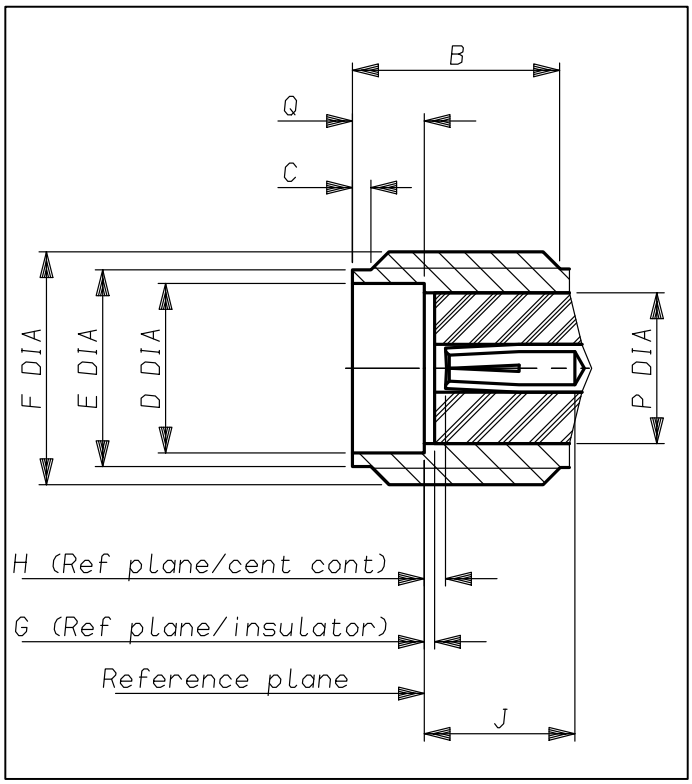
- Telecommunication / Datacommunication
  - cellular networks (GMS, DCS, PCN, ...)
  - cordless systems (DECT, CT2, ...)
  - wireless equipment (WLL, ...)
  - positioning systems (GPS, ...)
  - Internet equipment
  - ...
- Aeronautics
- Measurement and test systems
- General electronics

INTERFACE

PLUG



JACK



PLUG

LETTER	mm		inch	
	min.	max.	min.	max.
A		3.43		.135
B		2.54		.100
C	0.38	1.14	.015	.045
D DIA		4.59		
E DIA	6.35		.250	
F DIA	1/4 36 UNS 2B			
G*	0.0	-0.20	0.0	-.008
H*	0.0	-0.25	0.0	-.010
J				
K DIA		0.38		.015
M	1.27		.050	
P DIA	4.10 nom		.161 non	
Q DIA				
S DIA	0.90	0.94	.035	.037

JACK

LETTER	mm		inch	
	min.	max.	min.	max.
A				
B	4.31		.170	
C	0.38	1.14	.015	.045
D DIA	4.596		.181	
E DIA	5.28	5.49	.208	.216
F DIA	1/4 36 UNS 2A			
G*	0.0	-0.20	0.0	-.008
H*	0.0	-0.25	0.0	-.010
J	2.92		.115	
K				
M				
P DIA	4.10 nom		.161 non	
Q	1.88	1.98	.074	.078
S DIA				

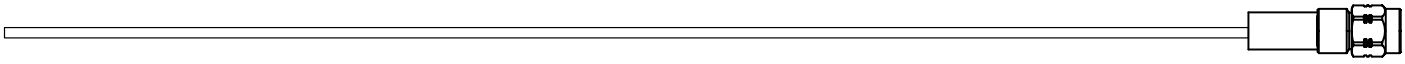
*NOTA : - means behind ref plane

* statistics quotation : .0539 ± .0055 (.0594 max)/(1.37 ± 0.14)(1.51 max)
1) Coupling nut against on datum 1
2) Coupling nut against on datum 2

All dimensions are given in mm.

commercial SMA

CHARACTERISTICS



MIL-C-39012 paragraph	VALUES / REMARKS

GENERAL

Impedance	50 Ω		
Frequency range	Semi-rigid cables DC - 18 GHz	Standard models DC - 12.4 GHz	
Temperature range	- 65°C + 105°C	- 65°C + 165°C	

ELECTRICAL

Insulation resistance	**3-11**	5 000 MΩ mini.			
Contact resistance *Outer conductor* *Inner conductor*	**3-16**	Initial 3 mΩ 2 mΩ		After test 4 mΩ 3 mΩ	
V.S.W.R. max up to : **18 GHz for semi-rigid cable - 12.4 GHz for right angle connector (SR) - 12.4 GHz for flexible cable** *Straight Connector* *Right angle connector*	**3-14**	**.085"** 1.07 + .01F 1.10 + .01F	**.141"** 1.05 + .01F 1.10 + .01F	**2.6 / 50 / S** 1.15 + .02F 1.15 + .03F	**5 / 50 / D** 1.15 + .01F 1.15 + .02F
Dielectric withstanding voltage in VRMS	**3-17**	750	1000	750	1000
Working voltage in VRMS (sea level)		335	500	250	335
Working voltage in VRMS (70 000 ft)		85	125	65	85
RF testing voltage at 5MHz in VRMS	**3-23**	500	670	500	670

MECHANICAL

Cable retention force	**3-24**	**.085"**	**.141"**	**2.6 / 50 / S**	**5 / 50 / D**
		130 N	270 N	90 N	204 N
Life	**3-15**	100 matings			
Force to engage and disengage	**3-5-1**	23 Ncm - 2 inch pounds			
Coupling nut torque recommended		60 Ncm - 5.2 inch pounds			
Coupling nut retention force	**3-25**	272 N min			

ENVIRONMENTAL

Vibration	**3-18**	MIL STD 202, method 204, condition D,20g
Shock	**3-19**	MIL STD 202, method 213, condition I,100g
Thermal shock	**3-20**	MIL STD 202, method 107, condition B,
Corrosion (salt spray)	**3-13**	MIL STD 202, method 101, condition B,
Moisture resistance	**3-21**	MIL STD 202, method 106
Barometric pressure	**3-22**	MIL STD 202, method 105, condition C
Hermetic test		down to 10^{-6}mmHg (Torr) leakage rate < 10^{-8} atm/cm^3/sec
Life (at high temperature)		MIL STD 202, method 108

MATERIALS

Body	Brass
Center contacts female male	Beryllium copper Brass
Insulators	PTFE teflon
Gaskets	Silicone rubber

FINISH

Bodies	BBR or Gold plated
Center contacts	Gold plated

STANDARD PACKAGING : 100 pieces **- UNIT** : add W after the P/N.

RADIALL®

STRAIGHT PLUG, FULL CRIMP TYPE, FOR FLEXIBLE CABLE

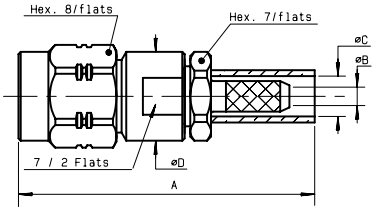


Fig. 1

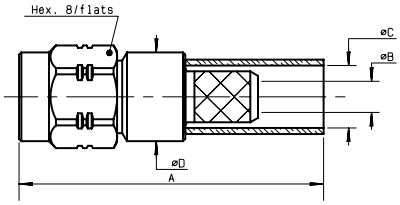


Fig. 2

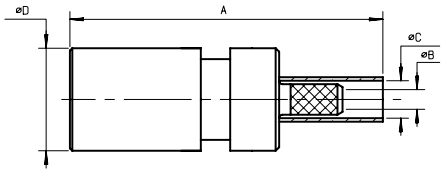


Fig. 3

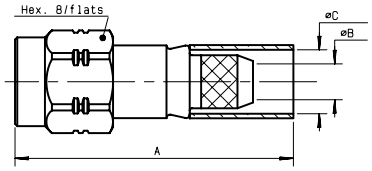


Fig. 4

cable group	part number	fig.	A	B	C	D	mounting	finish	note
2 / 50 / S	**R124 069 120**	1	25	1	2,55	7,7	M 08	BBR	Back nut / solder contact
2 / 50 / S	**R124 069 123**	1	25	1	2,55	7,7	M 08	Gold	
2.6/ 50 / S	**R124 071 120**	2	23,4	1,61	3,25	7,7	M 01	BBR	3 piece SMA
2.6/ 50 / S	**R124 071 123**	2	23,4	1,61	3,25	7,7	M 01	Gold	
2.6/ 50 / D	**R124 072 220**	2	23,4	1,61	3,5	7,7	M 01	BBR	
2.6/ 50 / D	**R124 072 223**	2	23,4	1,61	3,5	7,7	M 01	Gold	
2.6/ 50 / S	**R124 072 520●**	3	27,14	1,7	3,25	8,9	M 01	BBR	Slide-on interface - Non captivated center contact
5 / 50 / S	**R124 075 320**	2	26,4	3,11	5,41	7,7	M 01	BBR	3 piece SMA
5 / 50 / S	**R124 075 323**	2	26,4	3,11	5,41	7,7	M 01	Gold	
5 / 50 / S	**R124 075 200●**	4	24,15	3,11	5,55		M 01	Gold	Cable LMR200 Non captivated center contact
5 / 50 / D	**R124 076 320**	2	26,4	3,11	5,8	7,7	M 01	BBR	3 piece SMA
5 / 50 / D	**R124 076 323**	2	26,4	3,11	5,8	7,7	M 01	Gold	
10.3 /50 / S	**R124 080 030●**	2	29,65	7,44	11,05	12,7	M 01	BBR	Cable LMR400 Non captivated center contact

STRAIGHT PLUG, SOLDER TYPE, FOR SEMI-RIGID CABLE

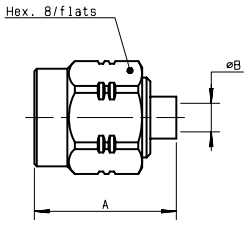


Fig. 1

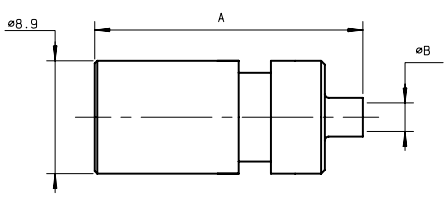


Fig. 2

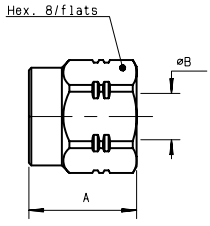


Fig. 3

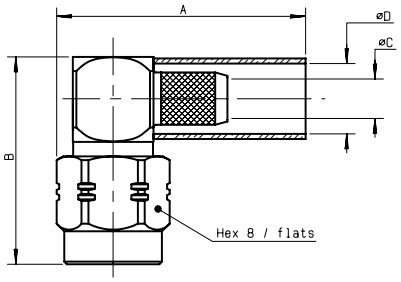
cable group	part number	fig.	A	B	mounting	finish	note
.085	**R124 052 003**	1	11,1	2,25	M 04	Gold	Non captivated center contact
.085	**R124 052 520●**	2	21,14	2,25	M 07	Gold	Slide-on interface
.141	**R124 054 001**	3	8,5	3,65	M 06	BBR	Without center contact
.141	**R124 054 003**	3	8,5	3,65	M 06	Gold	

● Upon request.

Standard packaging : 100 pieces

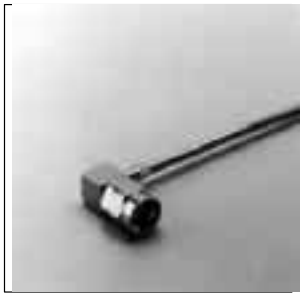
PLUGS

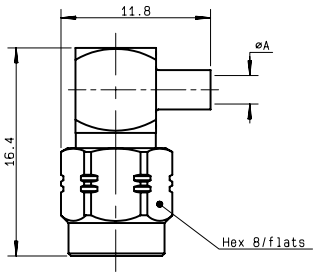
RIGHT ANGLE PLUG, CRIMP TYPE, FOR FLEXIBLE CABLE



cable group	part number	A	B	C	D	mounting	finish	note
2.6/ 50 / S	**R124 172 120**	18	16,35	1,61	3,25	M 02	BBR	3 piece SMA
2.6/ 50 / S	**R124 172 123**	18	16,35	1,61	3,25	M 02	Gold	
2.6/ 50 / D	**R124 174 120**	18	16,35	1,61	3,5	M 02	BBR	
2.6/ 50 / D	**R124 174 123**	18	16,35	1,61	3,5	M 02	Gold	
5 / 50 / S	**R124 175 120**	21	16,35	3,1	5,41	M 02	BBR	3 piece SMA
5 / 50 / S	**R124 175 123**	21	16,35	3,1	5,41	M 02	Gold	
5 / 50 / D	**R124 176 120**	21	16,35	3,1	5,8	M 02	BBR	
5 / 50 / D	**R124 176 123**	21	16,35	3,1	5,8	M 02	Gold	
5.7/ 50 / D	**R124 176 220●**	21	16,8	3,87	6,6	M 02	BBR	3 piece SMA Cable TZC 50019

RIGHT ANGLE PLUG, SOLDER TYPE, FOR SEMI-RIGID CABLE



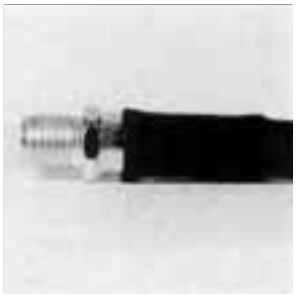


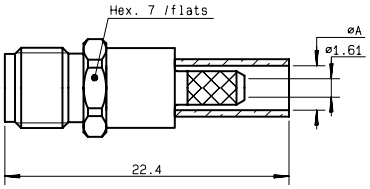
cable group	part number	A	mounting	finish
.085	**R124 153 001**	2,25	M 05	BBR
.085	**R124 153 003**	2,25	M 05	Gold
.141	**R124 154 001**	3,65	M 05	BBR
.141	**R124 154 003**	3,65	M 05	Gold

● Upon request.

Standard packaging : 100 pieces

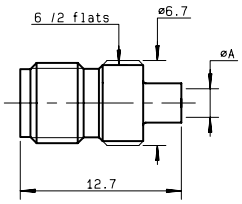
STRAIGHT JACK, FULL CRIMP TYPE, FOR FLEXIBLE CABLE





cable group	part number	A	mounting	finish	note
2.6/ 50 / S	**R124 236 120**	3,25	M 01	BBR	3 piece SMA
2.6/ 50 / S	**R124 236 123**	3,25	M 01	Gold	
2.6/ 50 / D	**R124 233 120**	3,5	M 01	BBR	
2.6/ 50 / D	**R124 233 123**	3,5	M 01	Gold	

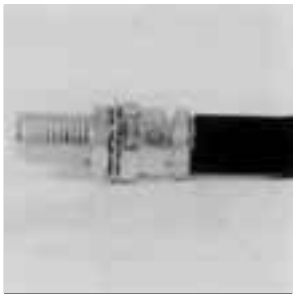
STRAIGHT JACK, SOLDER TYPE, FOR SEMI-RIGID CABLE



cable group	part number	A	mounting	finish	note
.085	**R124 222 000**	2,25	M 04	BBR	Non captivated center contact
.085	**R124 222 003**	2,25	M 04	Gold	
.141	**R124 225 000**	3,65	M 04	BBR	
.141	**R124 225 003**	3,65	M 04	Gold	

Standard packaging : 100 pieces

BULKHEAD FEEDTHROUGH STRAIGHT JACK, FULL CRIMP TYPE, FOR FLEXIBLE CABLE



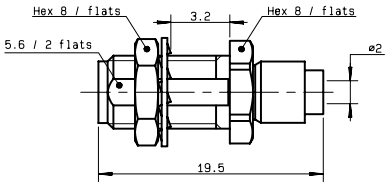


Fig. 1

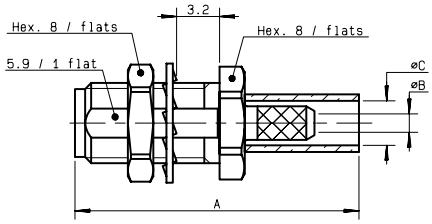
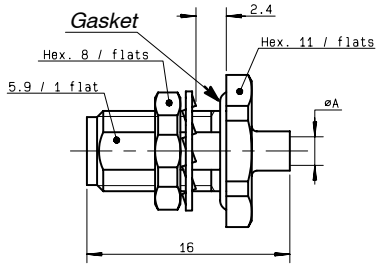


Fig. 2

cable group	part number	fig.	A	B	C	mounting	panel drilling	finish	note
2 / 50 / S	**R124 310 020**	1				M 03	P 08	BBR	Reverse crimping / Solder contact
2 / 50 / S	**R124 310 023**	1				M 03	P 08	Gold	
2.6/ 50 / S	**R124 312 120**	2	22,4	1,61	3,25	M 01	P 01	BBR	3 piece SMA
2.6/ 50 / S	**R124 312 123**	2	22,4	1,61	3,25	M 01	P 01	Gold	
2.6/ 50 / D	**R124 313 120**	2	22,4	1,61	3,5	M 01	P 01	BBR	
2.6/ 50 / D	**R124 313 123**	2	22,4	1,61	3,5	M 01	P 01	Gold	
5 / 50 / S	**R124 314 120**	2	25,4	3,11	5,41	M 01	P 01	BBR	3 piece SMA
5 / 50 / S	**R124 314 123**	2	25,4	3,11	5,41	M 01	P 01	Gold	
5 / 50 / D	**R124 315 120**	2	25,4	3,11	5,8	M 01	P 01	BBR	
5 / 50 / D	**R124 315 123**	2	25,4	3,11	5,8	M 01	P 01	Gold	

BULKHEAD FEEDTHROUGH STRAIGHT JACK, SOLDER TYPE, FOR SEMI-RIGID CABLE (PANEL SEAL)



cable group	part number	A	mounting	panel drilling	finish	note
.085	**R124 326 000**	2,25	M 04	P 01	BBR	Non captivated center contact
.085	**R124 326 003**	2,25	M 04	P 01	Gold	
.141	**R124 325 000**	3,65	M 04	P 01	BBR	
.141	**R124 325 003**	3,65	M 04	P 01	Gold	

Standard packaging : 100 pieces

SQUARE FLANGE JACK, FULL CRIMP TYPE, FOR FLEXIBLE CABLE

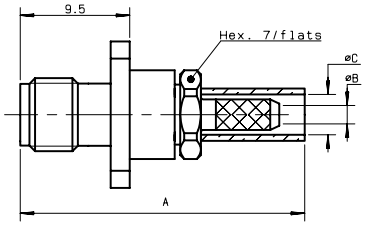
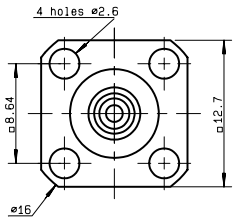


Fig. 1



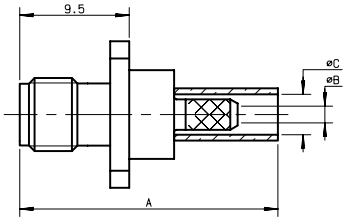


Fig. 2

cable group	part number	fig.	A	B	C	mounting	panel drilling	finish	note
2 / 50 / S	**R124 271 120**	1	26,6	1	2,55	M 08	P 02	BBR	Back nut / Solder contact
2 / 50 / S	**R124 271 123**	1	26,6	1	2,55	M 08	P 02	Gold	
2.6/ 50 / S	**R124 272 120**	2	22,4	1,61	3,25	M 01	P 02	BBR	3 piece SMA
2.6/ 50 / S	**R124 272 123**	2	22,4	1,61	3,25	M 01	P 02	Gold	
2.6/ 50 / D	**R124 274 120**	2	22,4	1,61	3,5	M 01	P 02	BBR	
2.6/ 50 / D	**R124 274 123**	2	22,4	1,61	3,5	M 01	P 02	Gold	
5 / 50 / S	**R124 277 120**	2	25,4	3,11	5,41	M 01	P 02	BBR	3 piece SMA
5 / 50 / S	**R124 277 123**	2	25,4	3,11	5,41	M 01	P 02	Gold	
5 / 50 / D	**R124 278 120**	2	25,4	3,11	5,8	M 01	P 02	BBR	
5 / 50 / D	**R124 278 123**	2	25,4	3,11	5,8	M 01	P 02	Gold	

FLANGE JACK, SOLDER TYPE, FOR SEMI-RIGID CABLE

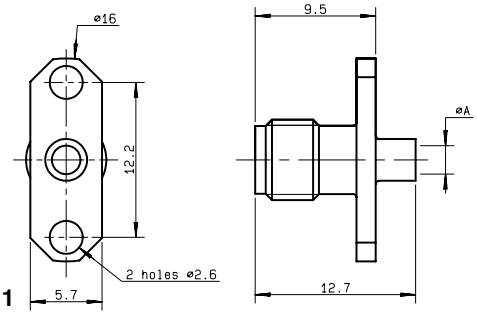


Fig. 1

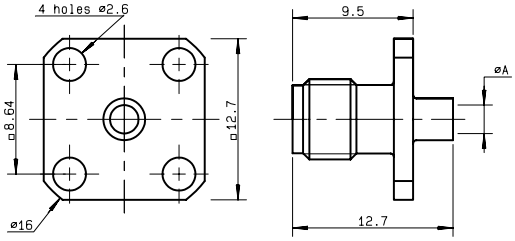
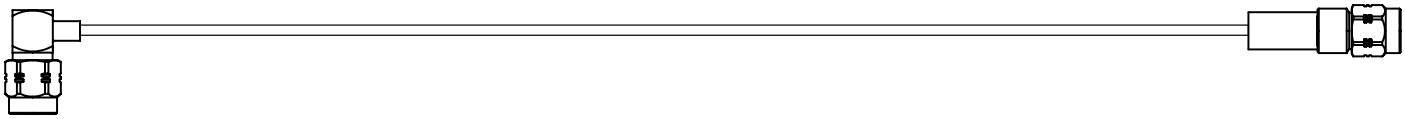


Fig. 2

cable group	part number	fig.	A	mounting	panel drilling	finsh	note
.141	**R124 251 000**	1	3,65	M 04	P 05	BBR	Non captivated center contact
.141	**R124 251 003**	1	3,65	M 04	P 05	Gold	
.085	**R124 252 000**	1	2,25	M 04	P 05	BBR	
.085	**R124 252 003**	1	2,25	M 04	P 05	Gold	
.141	**R124 255 000**	2	3,65	M 04	P 02	BBR	Non captivated center contact
.141	**R124 255 003**	2	3,65	M 04	P 02	Gold	
.085	**R124 256 000**	2	2,25	M 04	P 02	BBR	
.085	**R124 256 003**	2	2,25	M 04	P 02	Gold	

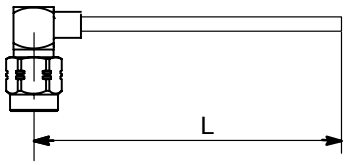
Standard packaging : 100 pieces

PIGTAILS AND CABLE ASSEMBLIES



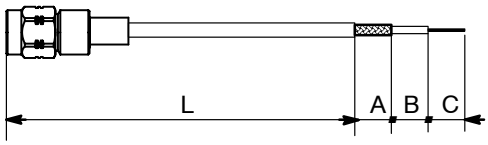
HOW TO ORDER : *Examples of composition (minimum length = 4 cm ± 2 %)*

Pigtail featuring one right angle plug soldered on RG 405(*.085)*



R 124 153 003 / C 291 850 001 / L = 15 cm

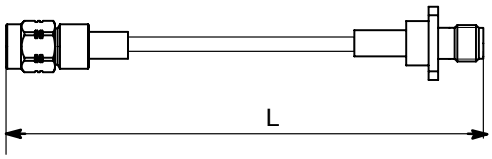
Pigtail featuring one straight plug crimped on RG 174 with stripping option*



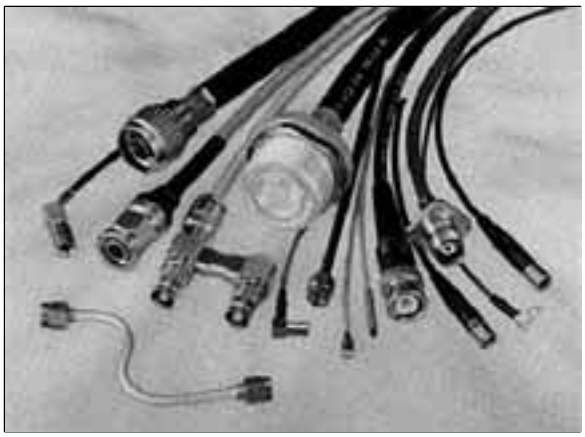
R 124 071 123 / C 291 150 000 / L = 15 cm
A = 10 mm B = 5 mm C = 5 mm

** Stripping according to customers requirements with possibility of tin central conductor.*

Cable assembly featuring one straight plug and one square flange jack crimped on RG 58



R 124 075 320 / C 291 305 000 / R 124 277 120 / L = 15 cm.



RADIALL CABLE PART NUMBER

cable type			part number
Semi-rigid	.085	RG 405	**C291 850 001**
	.141	RG 402	**C291 860 001**
Flexible	2 / 50 / S	RG 178	**C291 145 007**
	2.6 / 50 / S	RG 174 RG 316	**C291 150 000** **C291 170 007**
	2.6 / 50 / D	RD 316	**C291 185 067**
	5 / 50 / S	RG 58	**C291 305 000**
	5 / 50 / D	RG 223	**C291 330 000**

RECEPTACLES

SQUARE FLANGE FEMALE RECEPTACLE

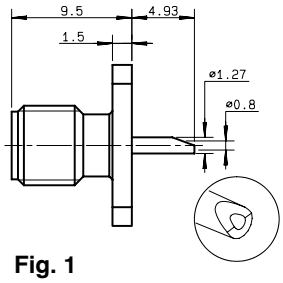


Fig. 1

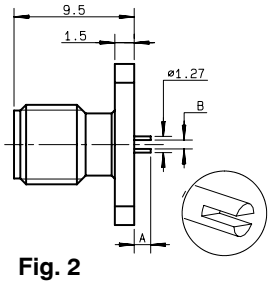


Fig. 2

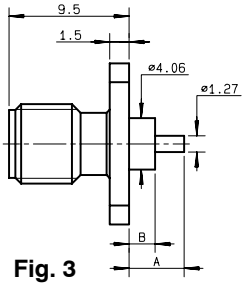


Fig. 3

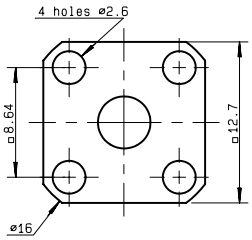


Fig.1 to 4

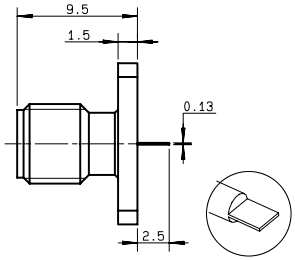
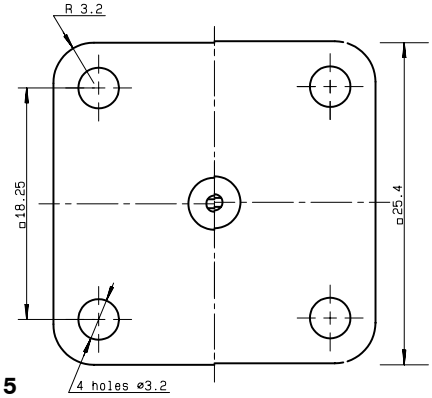


Fig. 4



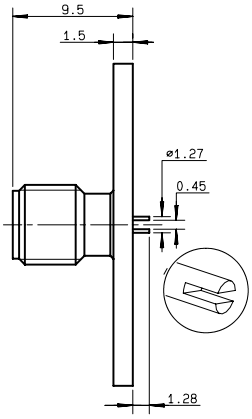


Fig. 5

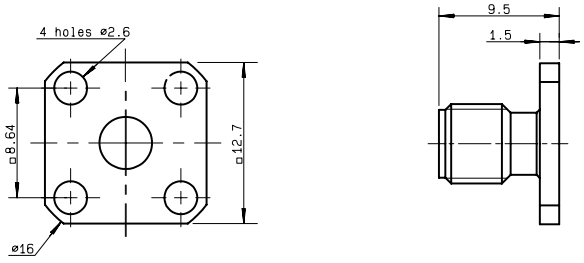
part number	fig.	A	B	panel drilling	finish	note
R124 403 120	1			P 04	BBR	
R124 403 123	1			P 04	Gold	
R124 498 030●	2	1,3	0,7	P 04	Gold	
R124 498 047●	2	2	0,51	P 04	BBR	
R124 510 000	4			P 04	BBR	
R124 510 003	4			P 04	Gold	
R124 409 503●	5			P 07	Gold	25,4 flange
R124 409 507●	5			P 07	BBR	
R124 414 000	3*	15,9	12,7	P 04	BBR	4 Indents
R124 414 003	3*	15,9	12,7	P 04	Gold	
R124 415 270	3*	17,9	15	P 04	BBR	
R124 415 273	3*	17,9	15	P 04	Gold	
R124 414 004	3*	15,9	12,7	P 04	Gold	Epoxy
R124 414 005	3*	15,9	12,7	P 04	BBR	
R124 415 274	3*	17,9	15	P 04	Gold	
R124 415 275	3*	17,9	15	P 04	BBR	

** : For more details, see Application guide for SMA extended dielectric receptacles D 1 125 DE.*

● Upon request.

Standard packaging : 100 pieces

UNIVERSAL SQUARE FLANGE FEMALE RECEPTACLE



To be used with removable contacts and insulators pages : 22 and 23

part number	panel drilling	finish
R124 410 000	P 04	BBR
R124 410 003	P 04	Gold

NARROW FLANGE FEMALE RECEPTACLE

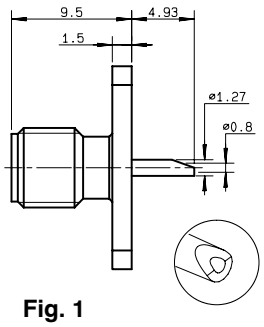
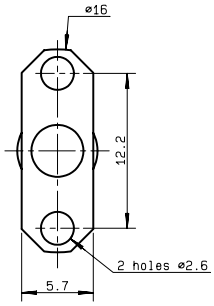


Fig. 1



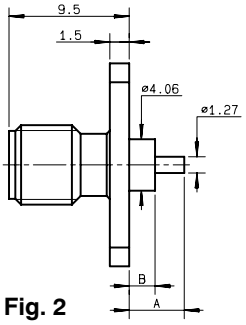


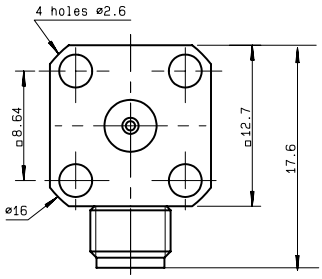
Fig. 2

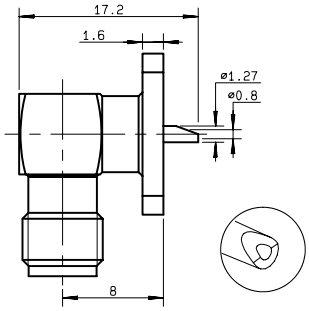
part number	fig.	A	B	panel drilling	finish	note
R124 454 120	1			P 05	BBR	
R124 454 123	1			P 05	Gold	
R124 464 000	2*	15,9	12,7	P 05	BBR	4 Indents
R124 464 003	2*	15,9	12,7	P 05	Gold	
R124 464 270	2*	17,9	15	P 05	BBR	
R124 464 273	2*	17,9	15	P 05	Gold	
R124 464 004	2*	15,9	12,7	P 05	Gold	Epoxy
R124 464 005	2*	15,9	12,7	P 05	BBR	
R124 464 274	2*	17,9	15	P 05	Gold	
R124 464 275	2*	17,9	15	P 05	BBR	

** : For more details, see Application guide for SMA extended dielectric receptacles D 1 125 DE.*

Standard packaging : 100 pieces

RIGHT ANGLE SQUARE FLANGE FEMALE RECEPTACLE





part number	panel drilling	finish
R124 654 000	P 02	BBR
R124 654 003	P 02	Gold

BULKHEAD FEEDTHROUGH STRAIGHT FEMALE RECEPTACLE

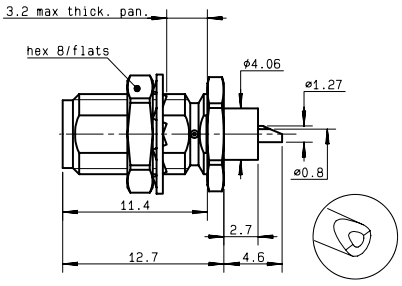
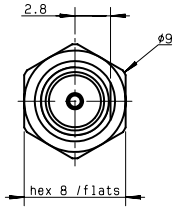


Fig. 1



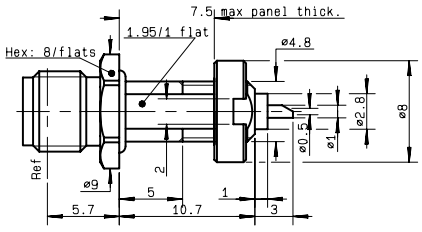


Fig. 2

part number	fig.	panel drilling	finish	note
R124 553 120	1	P 01	BBR	Rear mount
R124 553 123	1	P 01	Gold	Rear mount
R124 581 020●	2	P 10	BBR	Panel seal / Front mount

● Upon request

Standard packaging : 100 pieces

RECEPTACLES

STRAIGHT FEMALE PCB RECEPTACLE

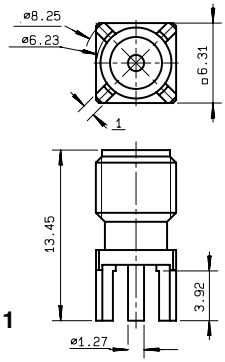


Fig. 1

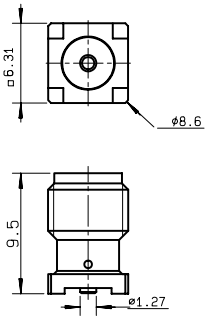


Fig. 2

part number	fig.	PCB pattern	finish	note
R124 426 120	1	P 03	BBR	
R124 426 121●	1	P 03	BBR + Tin-lead 60/40	
R124 426 123	1	P 03	Gold	
R124 426 850	1	P 03	BBR	Tube of 78 pieces
R124 426 853	1	P 03	Gold	Tube of 78 pieces
R124 427 000	2	M 09	Gold	Surface mount / Unit packaging
R124 427 800	2	M 09	Gold	Surface mount / Tape and reel of 100 pieces
R124 427 850	2	M 09	Gold	Surface mount / tube of 78 pieces

RIGHT ANGLE FEMALE PCB RECEPTACLE

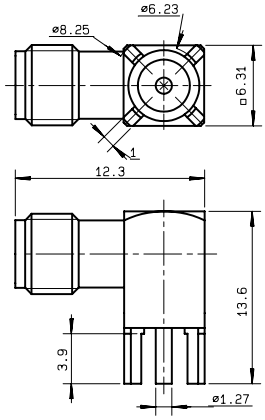


Fig. 1

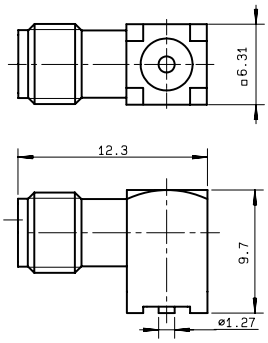


Fig. 2

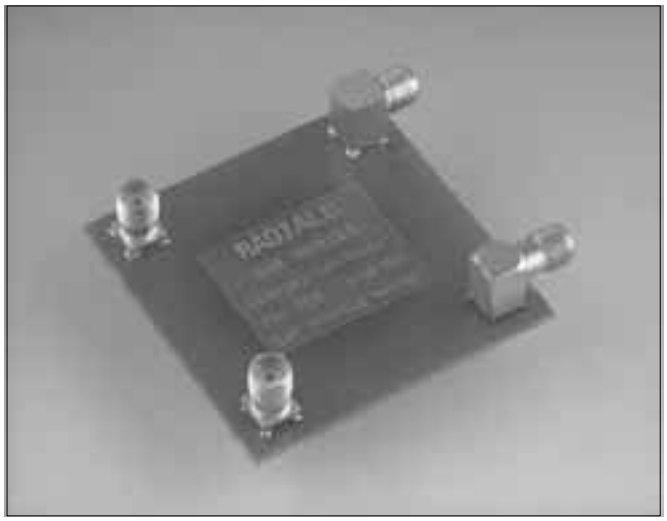
part number	fig.	PCB pattern	finish	note
R124 680 120	1	P 03	BBR	
R124 680 123	1	P 03	Gold	
R124 680 130●	1	P 03	BBR + Tin lead 60/40	
R124 680 850	1	P 03	BBR	Tube of 40 pieces
R124 680 853	1	P 03	Gold	Tube of 40 pieces
R124 681 000	2	M 09	Gold	Surface mount / Unit packaging
R124 681 800	2	M 09	Gold	Surface mount / Tape and reel of 100 pieces
R124 681 850	2	M 09	Gold	Surface mount / tube of 40 pieces

● Upon request.

Standard packaging : 100 pieces

ACCESSORIES

DEMONSTRATION BOARD



part number
R124 900 520

This demonstration board includes straight and R/A solder pins receptacles and straight and R/A SMT receptacles.

REMOVABLE CONTACTS *(to be used with universal receptacles, **R124 410 000** and **R124 410 003** page : 19)*

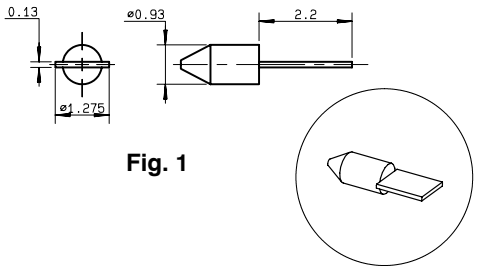


Fig. 1

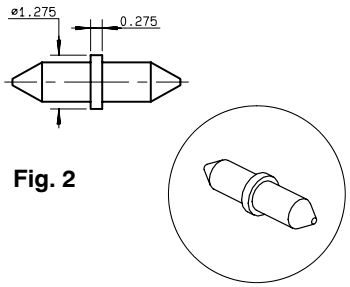


Fig. 2

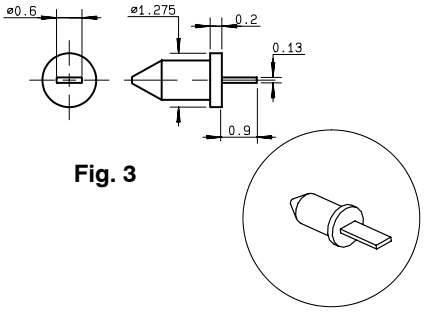


Fig. 3

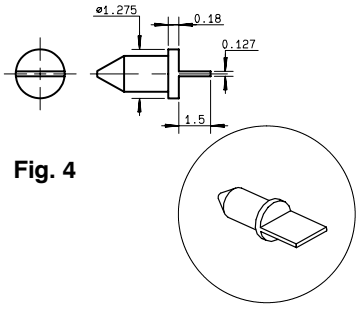


Fig. 4

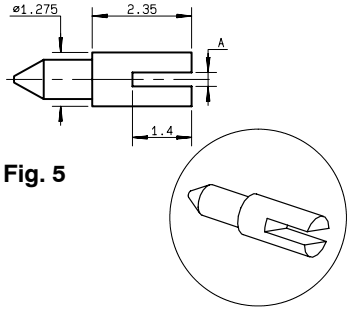


Fig. 5

part number	fig.	standard packaging
R280 458 030	1	10
R280 464 000	2	
R280 465 000	3	
R280 465 020	4	

part number	fig.	A	standard packaging
R280 466 020	5	0,71	10
R280 466 030		0,46	
R280 466 040		0,33	

REMOVABLE CONTACTS WITH INSULATORS

*(to be used with universal receptacles, **R124 410 000** and **R124 410 003** page : 19)*

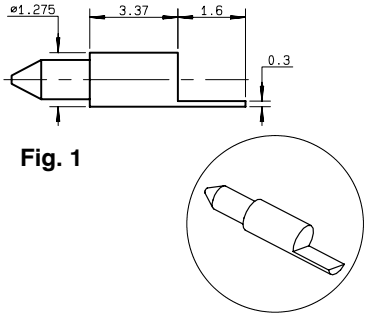


Fig. 1

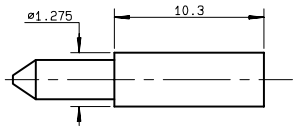


Fig. 2

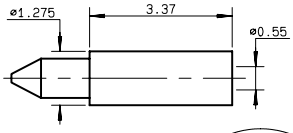


Fig. 3

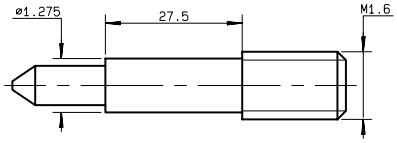


Fig. 4

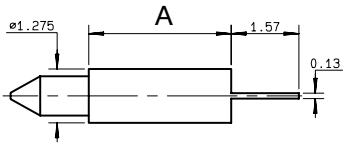


Fig. 5

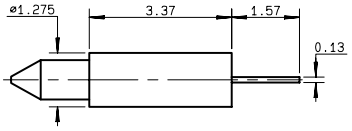


Fig. 6

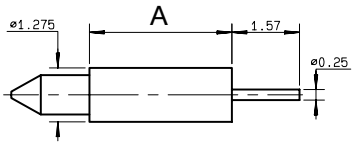


Fig. 7

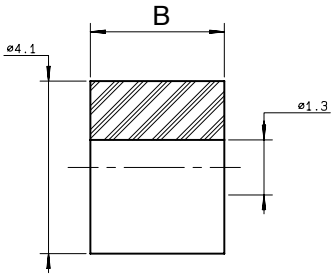
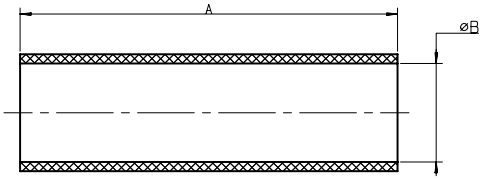


Fig. 8

removable contact + insulator P/N	fig.	A	B	standard packaging
R280 150 000 + R280 468 000	1 + 8		3,17	10 + 10
R280 151 000 + R280 468 120	2 + 8		10,1	10 + 10
R280 547 110 + R280 468 000	3 + 8		3,17	10 + 10
R280 457 208 + R280 468 110	4 + 8		27,5	100 + 100
R280 460 000 + R280 467 000	5 + 8	1,77	1,57	10 + 10
R280 461 000 + R280 468 000	5 + 8	3,37	3,17	10 + 10
R280 461 200 + R280 468 000	6 + 8		3,17	10 + 10
R280 461 210 + R280 468 120	5 + 8	10,3	10,1	10 + 10
R280 462 000 + R280 467 000	7 + 8	1,77	1,57	10 + 10
R280 463 000 + R280 468 000	7 + 8	3,37	3,17	10 + 10

ADAPTERS

HEATSHRINK SLEEVES



part number	cable	A	B
R280 637 010	2	22	3,2
R280 637 020	2,6	22	4,8
R280 637 030	5 / 5,7	25	9,5
R280 637 040	10,3	45	12

IN SERIES ADAPTER

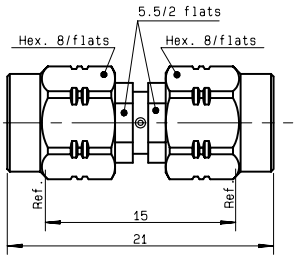


Fig. 1

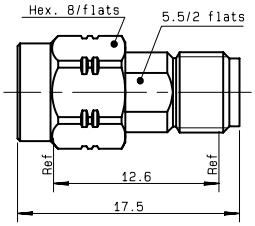


Fig. 2

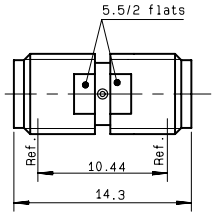


Fig. 3

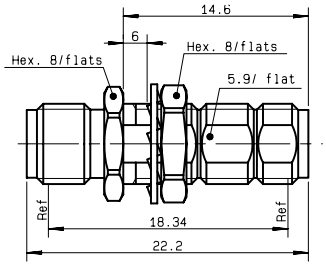
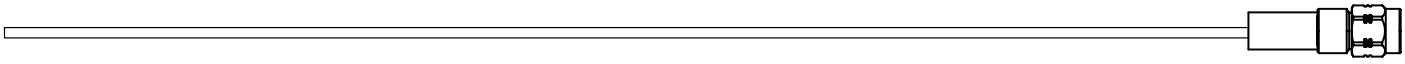


Fig. 4

part number	fig.	panel drilling	finish	note
R124 703 000	1		BBR	Plug to plug
R124 703 003	1		Gold	Plug to plug
R124 704 000	2		BBR	Plug to jack
R124 704 003	2		Gold	Plug to jack
R124 705 000	3		BBR	Jack to jack
R124 705 003	3		Gold	Jack to jack
R124 720 000	4	P 01	BBR	Jack to jack
R124 720 003	4	P 01	Gold	Jack to jack

Standard packaging : 100 pieces

ADAPTERS



BETWEEN SERIES ADAPTERS
(Standard stainless steel SMA interface)

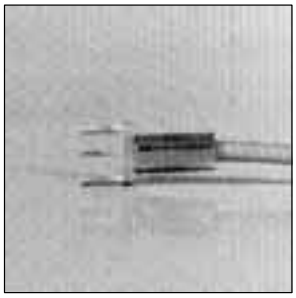
	SMA M	SMA M slide on	SMA F	SMA F bulkhead	SMA F slide on
MC CARD plug			R191 366 071●		
MC CARD jack			R191 366 091●		
MCC2.5 plug	R191 364 032●				
SSMB M plug	R191 376 000				
SSMB jack	R191 374 000				
SSMA jack	R191 347 000		R191 349 000		
SBMA plug	R191 360 001●		R191 362 001●		
SBMA bulkhead plug			R191 362 121●		
SBMA jack	R191 361 001●		R191 363 001●		
SBMA narrow flange jack			R191 363 451●		
MCX plug	R191 385 000		R191 388 000	R191 387 170●	
				R191 387 277	
MCX jack	R191 386 000		R191 387 000		
BMA plug	R191 350 001		R191 352 001		
BMA bulkhead plug	R191 354 001		R191 355 001		
BMA jack	R191 351 001		R191 353 001	R191 353 227●	
BMA bulkhead jack	R191 351 121●		R191 353 121		
BMA floating jack			R191 353 301●		
BMA floating flange jack			R191 353 401●		
BNC plug	R191 301 000		R191 305 000		
BNC jack	R191 303 000	R191 303 502●	R191 307 000●		R191 304 502●
TNC plug	R191 309 000		R191 313 000		
TNC jack	R191 311 000	R191 311 502●	R191 315 000		R191 315 502●
TNC flange jack			R191 365 000		
N plug	R191 325 000	R191 325 500●	R191 329 000		R191 329 500●
N jack	R191 327 000		R191 331 000		
N flange jack	R191 377 000		R191 381 000		
N bulkhead panel sealed jack				R191 332 000	
N bulkhead panel + inner sealed jack				R191 334 000	
C floating plug			R191 338 000●		
C flange jack			R191 342 000●		
HN flange jack			R191 358 000●		
			R191 359 000●		

For more details, see our detailed catalog "between series coaxial adapters" ***D1 191 CE.***

● Upon request.

Standard packaging : unit

STRAIGHT PCB CABLE TERMINALS



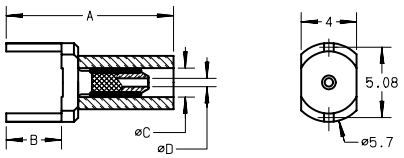


Fig. 1

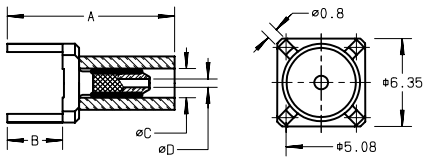


Fig. 2

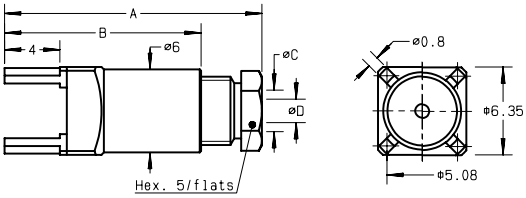


Fig. 3

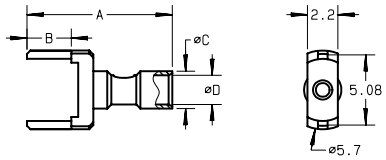


Fig. 4

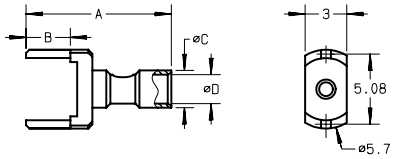


Fig. 5

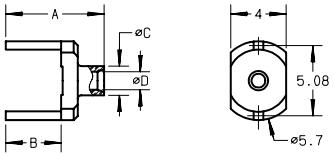


Fig. 6

cable group	part number	fig.	imp.*(Ω)*	dimensions *(mm)*				finish	note
				A	B	C	D		
2 /50/ S	**R280 280 000**	1	50	12.1	4	2.55	1.1	Gold	2 pins / crimp
2 /50/ S	**R280 280 020**	1	50	12.1	4	2.55	1.1	BBR	2 pins / crimp
2 /50/ S	**R280 282 000**	2	50	16.2	4	2.55	1	Gold	4 pins / crimp
2 /50/ S	**R280 281 000**	3	50	18.6	14.2	2.2	1	Nickel	4 pins / clamp
2 /50/ S	**R280 221 000**	4	50	10.5	3.2	2.7	1.45	Gold	2 pins / solder
2 /50/ S	**R280 221 020●**	4	50	10.5	3.2	2.7	1.45	BBR	2 pins / solder
2.6 / 50 + 75/ S	**R280 280 100**	1	50	12.1	4	2.95	1.65	Gold	2 pins / crimp
2.6 / 50 + 75/ S	**R280 280 120**	1	50	12.1	4	2.95	1.65	BBR	2 pins / crimp
2.6 / 50 + 75/ S	**R280 284 000**	2	50	17.2	4	3.25	1.7	Nickel	4 pins / crimp
2.6 / 50 + 75/ S	**R280 283 000**	3	50	18.6	14.2	3	1.7	Nickel	4 pins / clamp
2.6 / 50 + 75/ S	**R280 222 000**	5	50	8.4	3.2	3.15	2.3	Gold	2 pins / solder
2.6 / 50 + 75/ S	**R280 222 020●**	5	50	8.4	3.2	3.15	2.3	BBR	2 pins / solder
2.6 / 50 + 75/ D	**R280 280 200●**	1	50	12.1	4	3.25	1.65	Gold	2 pins / crimp
2.6 / 50 + 75/ D	**R280 280 220●**	1	50	12.1	4	3.25	1.65	BBR	2 pins / crimp
.047	**R280 287 100●**	6	50	7.1	4	2	1.3	Gold	2 pins / solder
.047	**R280 287 120●**	6	50	7.1	4	2	1.3	Tin lead	2 pins / solder
.085	**R280 287 200**	6	50	7.1	4	3	2.25	Gold	2 pins / solder
.085	**R280 287 220●**	6	50	7.1	4	3	2.25	Tin lead	2 pins / solder

● Upon request.

RIGHT ANGLE PCB CABLE TERMINALS

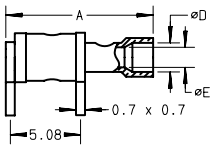


Fig. 1

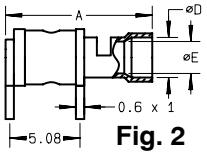


Fig. 2

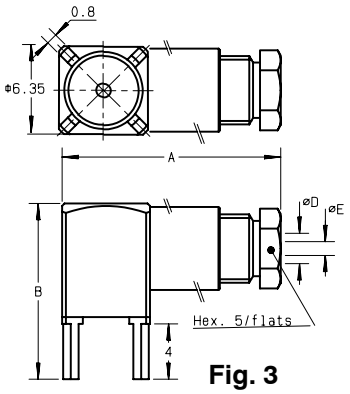


Fig. 3

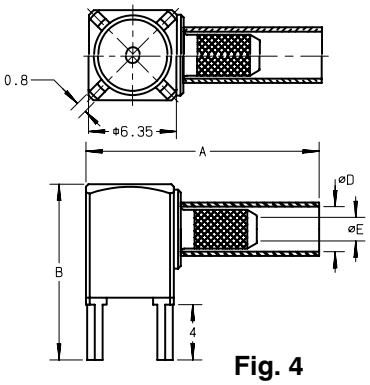


Fig. 4

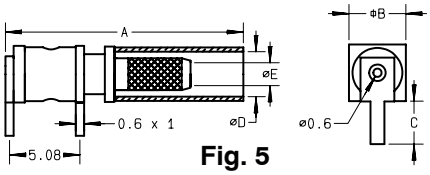
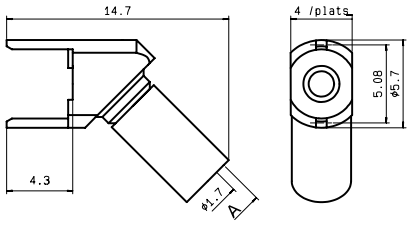


Fig. 5

cable group	part number	fig.	imp.(Ω)	dimensions *(mm)*					finish	note
				A	B	C	D	E		
2/50/S	**R280 219 000**	1	50	10.90	3.60	3.45	2.10	1.45	Gold	2 pins / solder
2 / 50 /S	**R280 219 008●**	1	50	10.90	3.60	3.45	2.10	1.45	Tin lead	2 pins / solder
2 / 50 / S	**R280 219 020●**	1	50	10.90	3.60	3.45	2.10	1.45	Tin lead	2 pins / solder
2 / 50 / S	**R280 291 000**	3	50	19.80	12.70		2.20	1.00	Nickel	4 pins / clamp
2 / 50 / S	**R280 292 000**	4	50	16.85	12.70		2.55	1.00	Gold	4 pins / crimp
2.6 /50+75/S	**R280 220 007●**	2	50	10.70	4.10	3.10	2.90	2.30	BBR	2 pins / solder
2.6 /50+75/S	**R280 220 008**	2	50	10.70	4.10	3.10	2.90	2.30	Tin lead	2 pins / solder
2.6 / 50 / D	**R280 220 200**	1	50	10.90	4.10	3.10	2.90	2.40	Gold	2 pins / solder
2.6 / 50 / D	**R280 220 220**	1	50	10.90	4.10	3.10	2.90	2.40	Tin lead	2 pins / solder
2.6 /50+75/S	**R280 293 000**	3	50	19.80	12.70		3.00	1.70	Tin lead	4 pins / clamp
2.6 /50+75/S	**R280 294 000**	4	50	16.85	12.70		3.25	1.70	Tin lead	4 pins / crimp
2.6 /50+75/S	**R280 294 308●**	5	50	17.20	4.10	3.10	3.25	1.70	Nickel+tin lead	2 pins / crimp

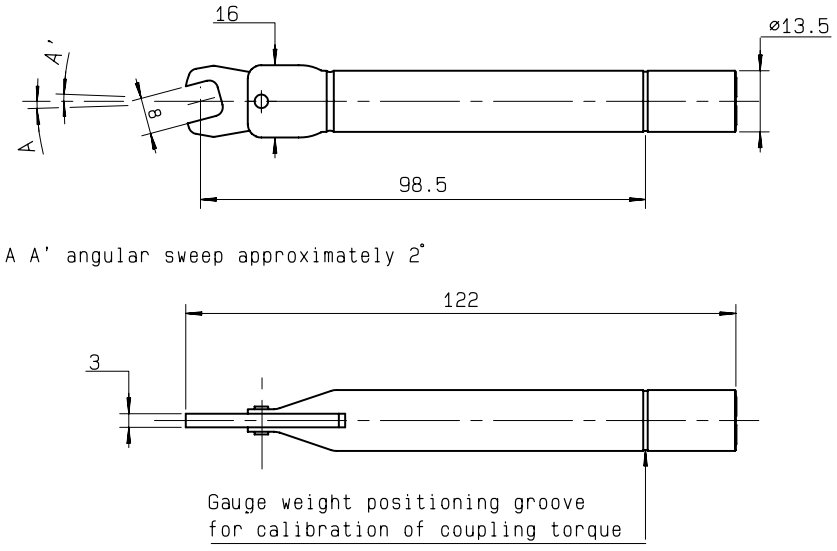
45° ANGLE PCB TERMINALS



cable group	part number	imp.(Ω)	dimensions *(mm)*	finish
			A	
2.6 / 50 / S	**R280 296 000**	50	2.95	Tin lead
2.6 / 50 / D	**R280 296 120**	50	3.25	Tin lead

● Upon request.

TORQUE WRENCH 8 mm 60 Ncm R282 320 030



RADIALL CRIMP TOOLS (DIES INCLUDED)

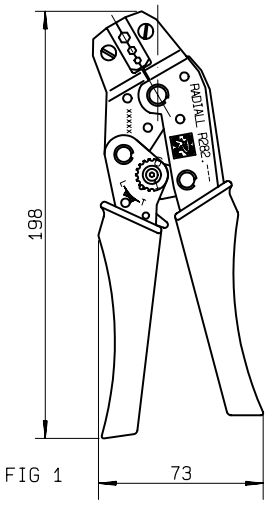


FIG 1

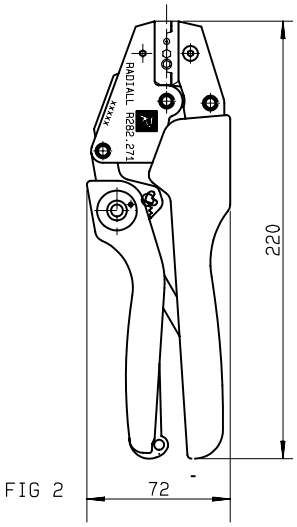


FIG 2

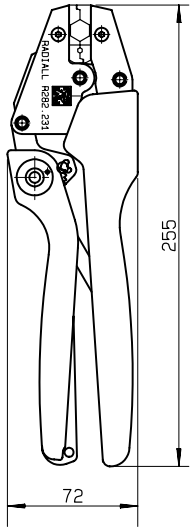


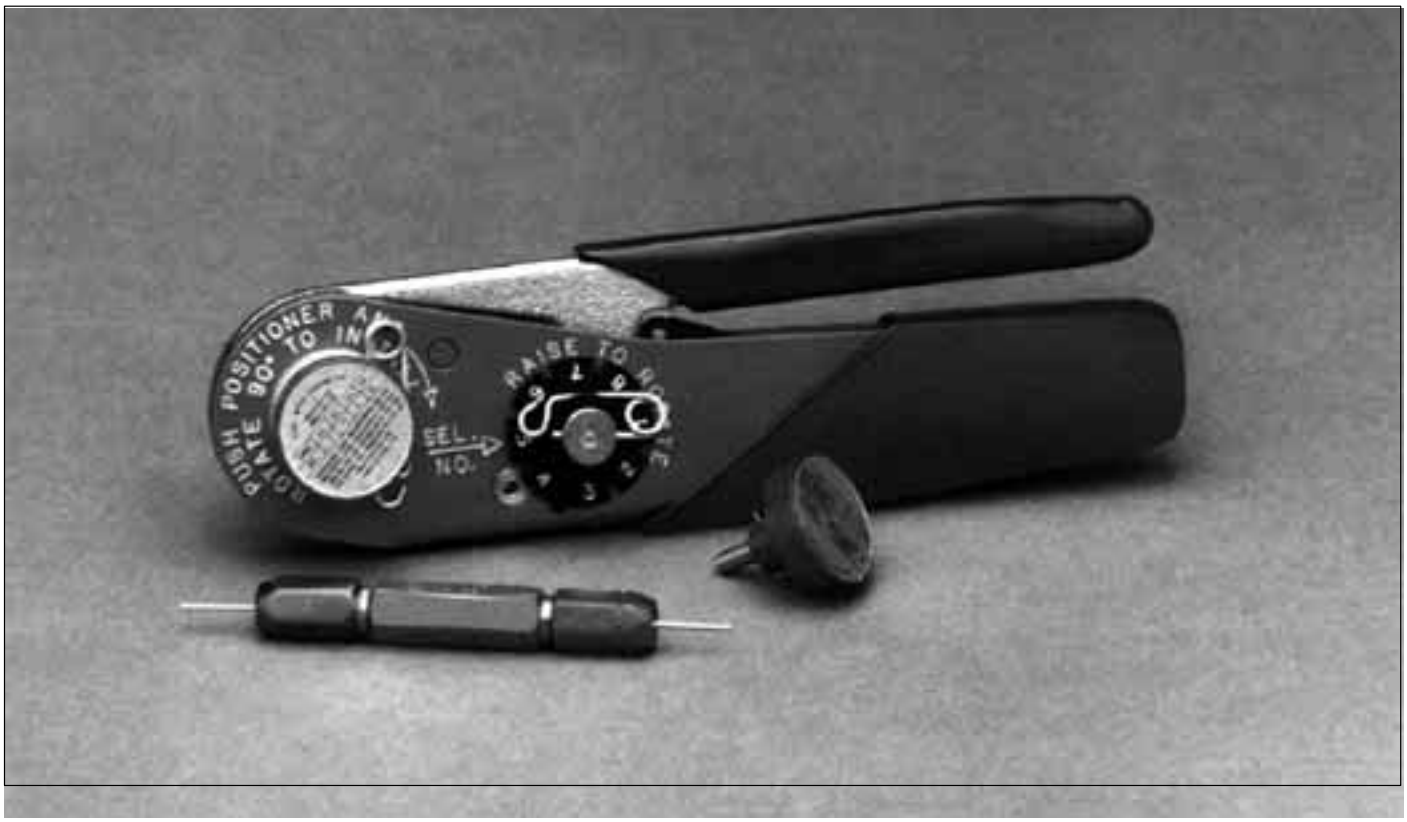
FIG 3

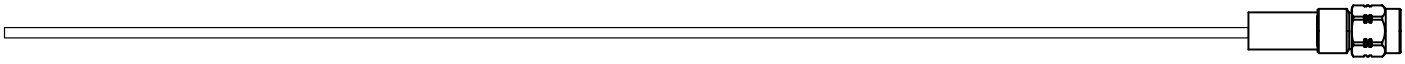
PART NUMBER	FIG.	CABLE GROUP	COLOUR OF HANDLES			
R282 211 000	1	2/50 S - 2.6/50 S	RED	4.52 (0.178)	3.25 (0.128)	2.67 (0.105)
R282 223 000	1	5/50 S - 5/50 D	ORANGE	6.48 (0.255)	5.41 (0.213)	1.73 (0.068)
R282 231 000	3	10.3/50 S	YELLOW	10.54 (0.415)	2.54 (0.1)	
R282 271 000	2	2.6/50 S - 2.6/50 D	BLACK	3.84 (0.131)	3.25 (0.128)	0.72* (0.028)

* Square crimping print.

MIL CRIMP TOOL (M22520/5-01) R282 293 000 (DIES NOT INCLUDED : See page 30)

CRIMP TOOL R282 281 000 and POSITIONER R282 967 012



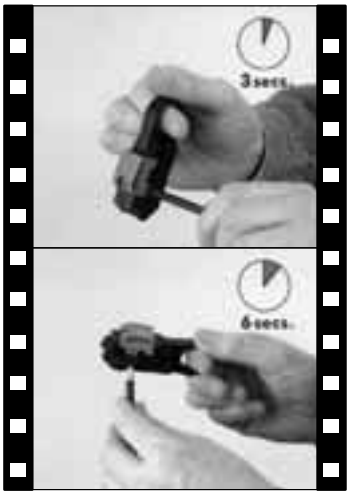


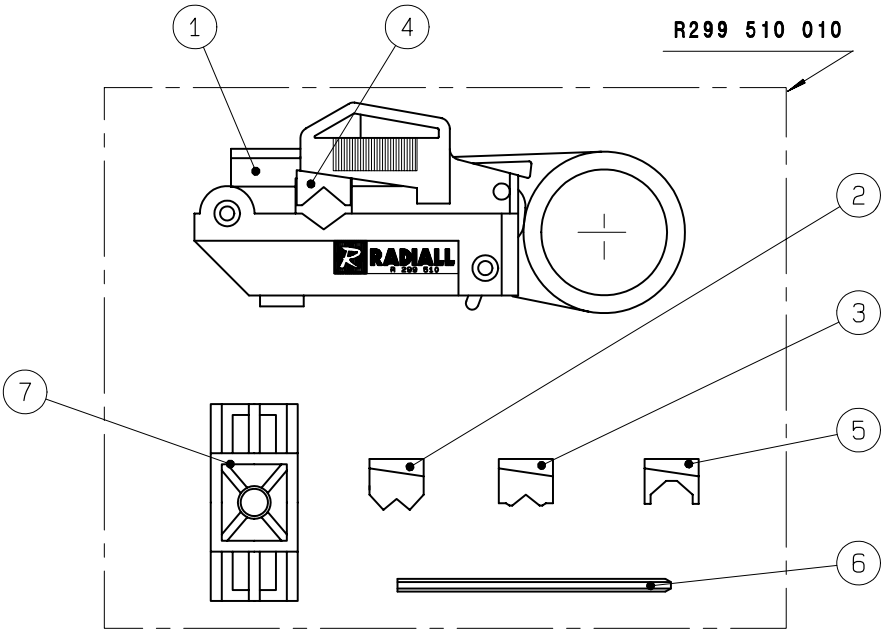
MATCHING P/N WITH CRIMP TOOLS

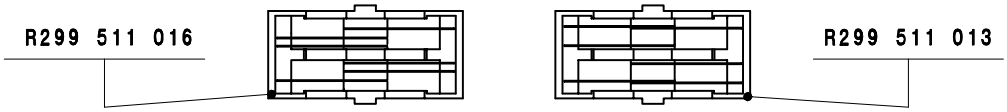
P/N	Mounting	Cable strip dimensions			Center contact	Ferrule *								
					Crimp tool **R282 281 000** + Positioner **R282 967 012**	Standard crimp tools P/N (Dies included)				MIL Crimp tool **R282 293 000** Dies P/N				
		A	B	C	Selection N°	**R282 211 000**	**R282 223 000**	**R282 231 000**	**R282 271 000**	**R282 235 003**	**R282 235 011**	**R282 235 013**	**R282 235 037**	**R282 235 116**
R124 069 120 R124 069 123	M 08	3,5	7	13,5	-	❍				❍				
R124 071 120 R124 071 123	M 01	3	6,3	10,8	5				❍	❍				
R124 072 220 R124 072 223	M 01	3	6,3	10,8	5				❍				❍	
R124 072 520		3	5,3	11	5	❍				❍				
R124 075 320 R124 075 323		3	6,3	10,8	7		❍				❍			
R124 075 200		2	6	9,5	7		❍				❍			
R124 076 320 R124 076 323		3	6,3	10,8	7		❍				❍			
R124 080 030		4,5	8	11,3	-			❍						❍
R124 172 120 R124 172 123	M 02	2	6,5	12	-	❍				❍				
R124 174 120 R124 174 123		2	6,5	12	-				❍				❍	
R124 175 120 R124 175 123		2	6,5	12	-		❍				❍			
R124 176 120 R124 176 123		2	6,5	12	-		❍				❍			
R124 176 227		2	6,5	10,5	-		❍					❍		
R124 233 120 R124 233 123	M 01	3	6,3	10,8	5				❍				❍	
R124 236 120 R124 236 123		3	6,3	10,8	5				❍	❍				
R124 272 120 R124 272 123		3	6,3	10,8	5				❍	❍				
R124 271 120	M 08	3,5	7	13,5	-	❍				❍				
R124 274 120 R124 274 123	M 01	3	6,3	10,8	5				❍				❍	
R124 277 120 R124 277 123		3	6,3	10,8	7		❍				❍			
R124 278 120 R124 278 123		3	6,3	10,8	7		❍				❍			
R124 312 120 R124 312 123		3	6,3	10,8	5				❍	❍				
R124 313 120 R124 313 123		3	6,3	10,8	5				❍				❍	
R124 314 120 R124 314 123		3	6,3	10,8	7		❍				❍			
R124 315 120 R124 315 123		3	6,3	10,8	7		❍				❍			

**** To crimp the ferrule you can choose : - either one standard crimp tool with included dies***
- or the MIL crimp tool and its separated dies.

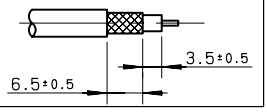
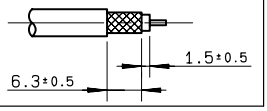
STRIPPING KIT FOR FLEXIBLE CABLES





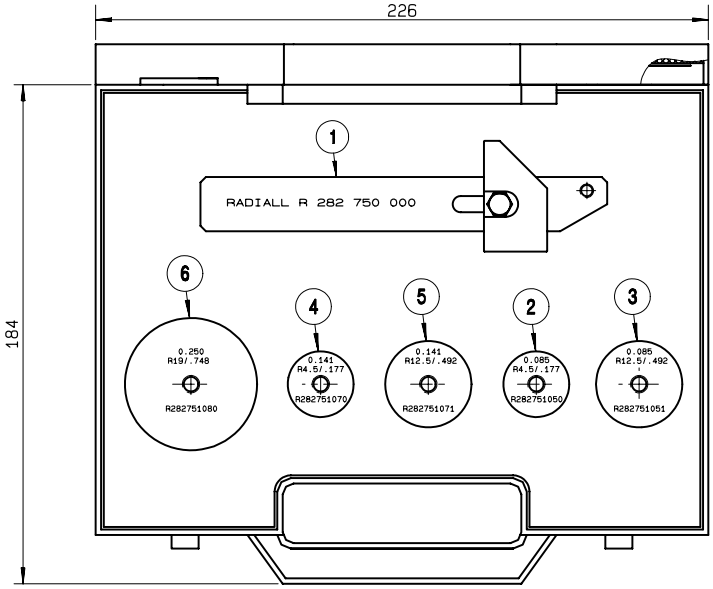


STRIPPING TOOL **R299 510 010**	1 - Stripping tool 2 - White V guide for ϕext. cable 2.5 a 3 mm 3 - Red V guide for ϕext. cable 3 a 5 mm 4 - Blue V guide for ϕext. cable 5 a 6.4 mm 5 - Yellow V guide for ϕext. cable 6.4 a 7.6 mm 6 - Wrench 7 - Gauge

R299 511 013	BLUE STRIPPING CASSETTE 6.5 / 3.5	
R299 511 016	WHITE STRIPPING CASSETTE 6.3 / 1.5	

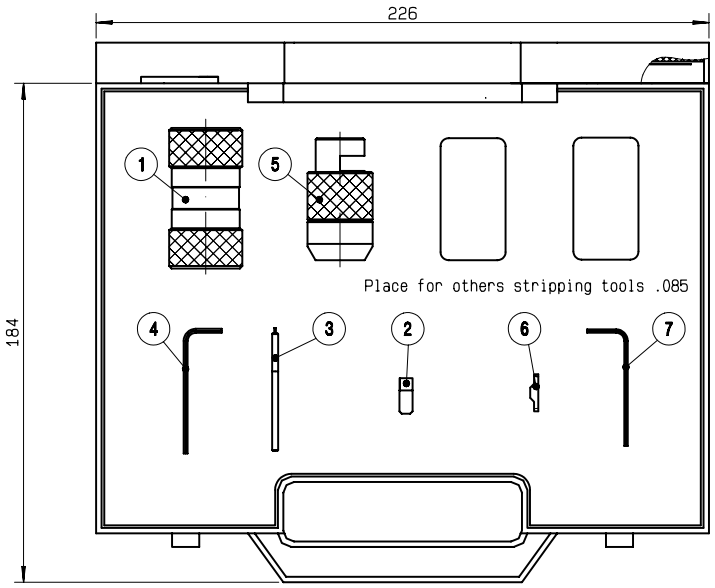
TOOLS FOR SEMI-RIGID CABLES

BENDING KIT FOR SEMI-RIGID CABLES .085 / .141 / .250



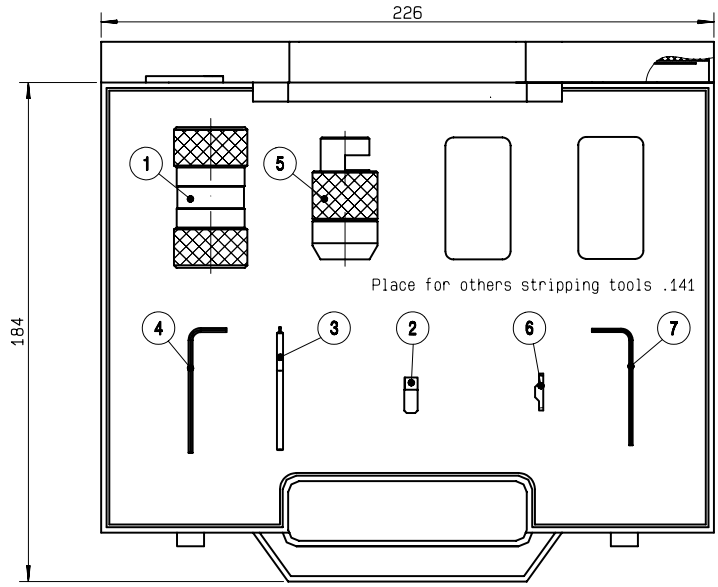
PART NUMBER			**R282 102 000**
1	-	R282 750 000	Bending tool
2	-	R282 751 050	Bending gauge .085
3	-	R282 751 051	Bending gauge .085
4	-	R282 751 070	Bending gauge .141
5	-	R282 751 071	Bending gauge .141
6	-	R282 751 080	Bending gauge .250

STRIPPING (3.17mm) + CONING KIT FOR SEMI-RIGID CABLE .085



PART NUMBER		R282 114 125
1 -	R282 051 000	Stripping tool .085
2 -	R282 055 000	Replacement stripping blade
3 -	R282 864 110	Blade installation gauge .085
4 -	R282 344 150	1.5 mm across flats male hex key
5 -	R282 063 000	Coning and length-setting tool 3.17 long on .085
6 -	R282 056 085	Replacement coning blade
7 -	R282 344 127	1.27 mm across flats male hex key

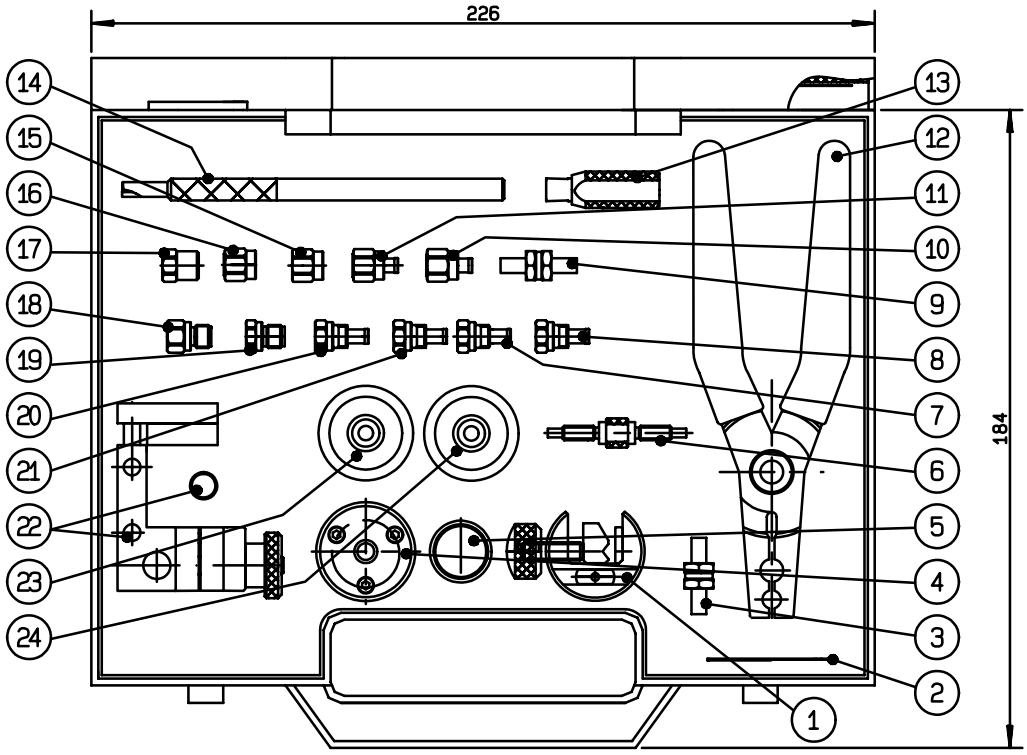
STRIPPING (3.17mm) + CONING KIT FOR SEMI-RIGID CABLE .141



PART NUMBER		R282 114 165
1 -	R282 053 000	Stripping tool .141
2 -	R282 055 000	Replacement stripping blade
3 -	R282 864 120	Blade installation gauge .141
4 -	R282 344 150	1.5 mm across flats male hex key
5 -	R282 067 000	Coning and length-setting tool 3.17 long on .141
6 -	R282 056 118	Replacement coning blade
7 -	R282 344 127	1.27 mm across flats male hex key

SMA SOLDER KIT FOR SEMI-RIGID CABLES

(Suitable for commercial and standard SMA)

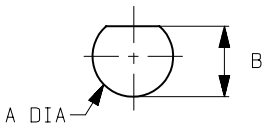


PART NUMBER LIST **R282 120 010**

N°	Reference	Mark	Designation
1 -	R282 059 100		Cable holder
2 -	R282 862 060		Solder gauge (cab .085:mark 61,cab .141:mark 62)
3 -	R282 744 200	(84)	Soldering positioner for right angle SMA
4 -	R282 053 100		Stripping tool
5 -	R282 066 100		Trimmer
6 -	R282 744 220		Soldering positioner for center contact
7 -	R282 744 060	(85)	Soldering positioner for male SMA cable .085
8 -	R282 744 062	(78)	Soldering positioner for male SMA B cable .085
9 -	R282 744 201	(88)	Soldering positioner for right angle SMA B
10-	R282 744 010	(80)	Soldering positioner for female cable .085
11-	R282 744 011	(86)	Soldering positioner for female cable .141
12-	R282 200 000		Retaining ring pliers
13-	R282 760 000		Retaining ring insert tool
14-	R282 915 010		Dielectric recess tool
15-	R282 914 010	(92)	Dielectric recess gauge for female
16-	R282 857 010	(81)	Control gauge for female
17-	R282 744 100	(82)	Soldering positioner for male
18-	R282 857 000	(83)	Control gauge for male
19-	R282 914 000	(93)	Dielectric recess gauge for male
20-	R282 744 063	(77)	Soldering positioner for male SMA B cable .141
21-	R282 744 061	(87)	Soldering positioner for male SMA cable .141
22-	R282 740 000		Soldering assembly jig
23-	R282 730 040		Dielectric insert tool + diele. plunger for female
24-	R282 730 043		Dielectric insert tool + dielect. plunger for male

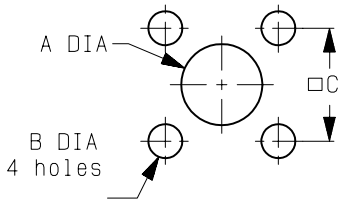
PANEL DRILLING AND PCB PATTERN

P01



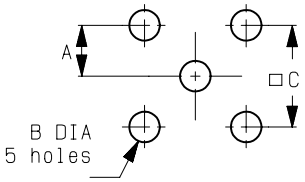
	MM		INCH	
	maxi	mini	maxi	mini
A	6.5	6.4	0.256	0.252
B	6.15	6	0.242	0.236

P02



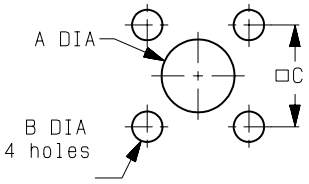
	MM		INCH	
	maxi	mini	maxi	mini
A	6.6	6.5	0.26	0.256
B	2.7	2.6	0.106	0.102
C	8.69	8.59	0.342	0.338

P03



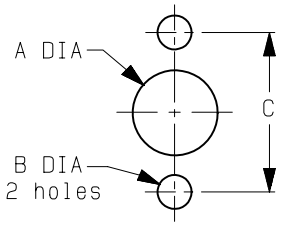
	MM		INCH	
	maxi	mini	maxi	mini
A	2.59	2.49	0.102	0.098
B	1.7	1.6	0.067	0.063
C	5.13	5.03	0.202	0.198

P04



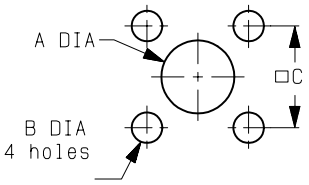
	MM		INCH	
	maxi	mini	maxi	mini
A	4.2	4.1	0.165	0.161
B	2.7	2.6	0.106	0.102
C	8.69	8.59	0.342	0.338

P05



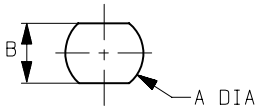
	MM		INCH	
	maxi	mini	maxi	mini
A	4.2	4.1	0.165	0.161
B	2.7	2.6	0.106	0.102
C	12.25	12.15	0.482	0.478

P07



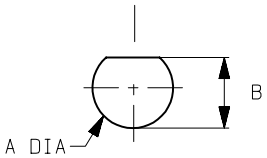
	MM		INCH	
	maxi	mini	maxi	mini
A	4.2	4.1	0.165	0.161
B	3.3	3.1	0.13	0.122
C	18.35	18.25	0.722	0.719

P08



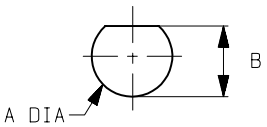
	MM		INCH	
	maxi	mini	maxi	mini
A	6.5	6.4	0.256	0.252
B	5.8	5.7	0.228	0.224

P09



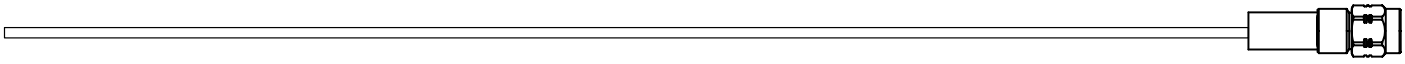
	MM		INCH	
	maxi	mini	maxi	mini
A	8.1	8	0.319	0.315
B	7.7	7.6	0.303	0.299

P10

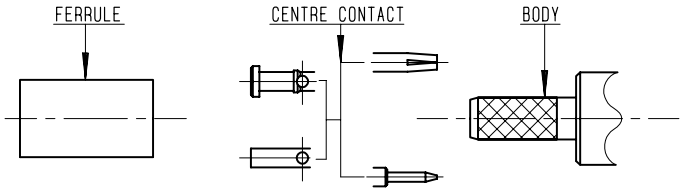


	MM		INCH	
	maxi	mini	maxi	mini
A	5	4.9	0.197	0.193
B	4.7	4.55	0.185	0.179

MOUNTING INSTRUCTIONS



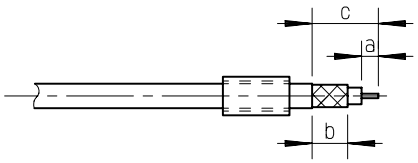
M 01



Connector P/N	Cable strip dimensions		
	a	b	c
R124 071 120 **R124 071 123** **R124 072 220** **R124 072 223**	3	6,3	10,8
R124 072 520	3	5,3	11
R124 075 320 **R124 075 323**	3	6,3	10,8
R124 075 200	2	6	9,5
R124 076 320 **R124 076 323**	3	6,3	10,8
R124 080 030	4,5	8	11,3
R124 233 120 **R124 233 123** **R124 236 120** **R124 236 123**	3	6,3	10,8

Connector P/N	Cable strip dimensions		
	a	b	c
R124 272 120 **R124 272 123** **R124 274 120** **R124 274 123** **R124 277 120** **R124 277 123** **R124 278 120** **R124 278 123** **R124 312 120** **R124 312 123** **R124 313 120** **R124 313 123** **R124 314 120** **R124 314 123** **R124 315 120** **R124 315 123**	3	6,3	10,8

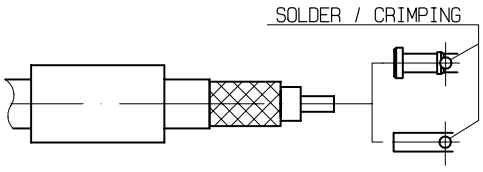
1



1-1 Slide onto the cable the ferrule eventually if screw slide it on the cable

1-2 Strip the cable .
Use if it's possible stripping tool R299 510 010 + tool R299 511 016
Only for cable with outer diameter between 2.5 and 7.6 mm

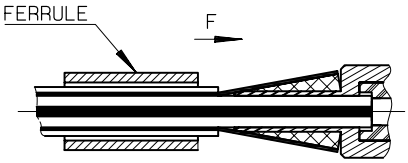
2



2-1 Slide on centre contact until it bottoms against cable dielectrique .

2-2 Solder or crimp centre contact .
(crimping tool board)

3

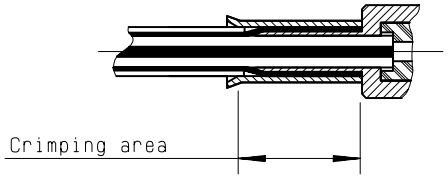


3-1 Fan the braid .

3-2 Slide cable into the body until bottoms against insulator .

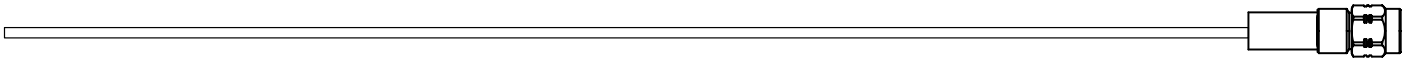
3-3 Slide ferrule over the braid .
(In direction F)

4

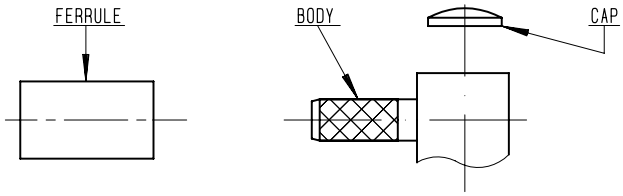


4-1 Crimp the ferrule with crimping tool
(crimping tool board)
Cut the excess of braid .

MOUNTING INSTRUCTIONS

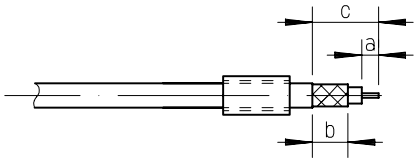


M 02



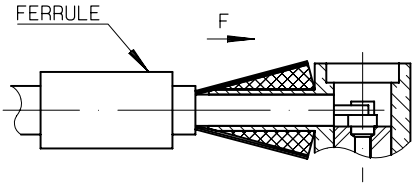
Connector P/N	cable strip dimensions		
	a	b	c
R124 172 120 **R124 172 123** **R124 174 120** **R124 174 123** **R124 175 120** **R124 175 123** **R124 176 120** **R124 176 123**	2	6,5	12
R124 176 227	2	6,5	10,5

1



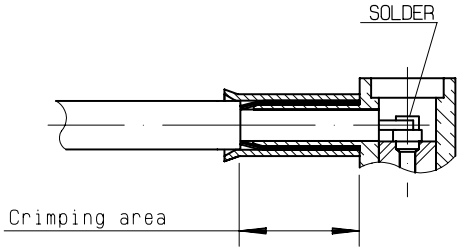
1-1 Slide onto the cable the ferrule .
1-2 Strip the cable .
Use if it's possible stripping tool
R299 510 010 + tool R299 511 013
Only for cable with outer diameter
between 2.5 and 7.6 mm

2



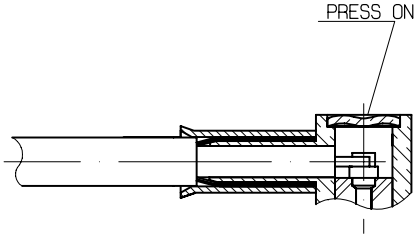
2-1 Fan the braid .
2-2 Push connector body under the braid .
2-3 Slide the ferrule on the braid
(in direction F)

3



3-1 Crimp the ferrule with crimping tool
(crimping tool board)
3-2 Solder inner conductor

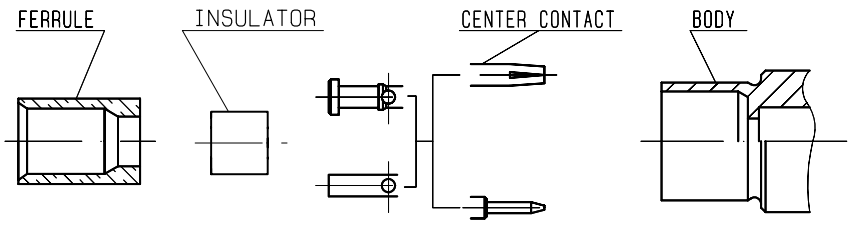
4



4-1 Place the cap .
Press cap flush or slightly below surface
of body assembly .

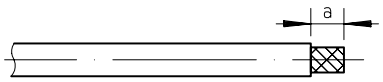
MOUNTING INSTRUCTIONS

M 03



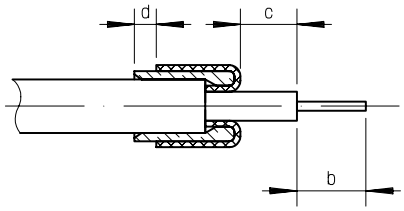
Connector P/N : **R124 310 020**
R124 310 023

1



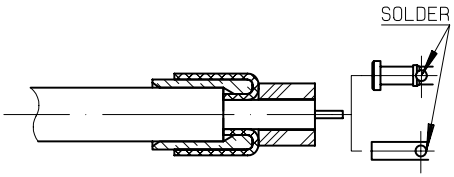
1-1 Strip the cable .
a = 10
b = 3
c = 5
d = 1.5

2



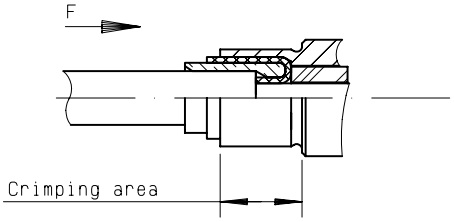
2-1 Slide on the ferrule until it bottoms against the jacket .
2-2 Fan the braid.
2-3 Fold back braid and trim off surplus braid.
2-4 Trim the inner conductor as shown.

3



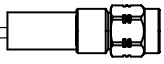
3-1 Slide the insulator
3-2 Slide on the center contact until it bottoms against cable dielectric .
3-3 Solder center contact

4

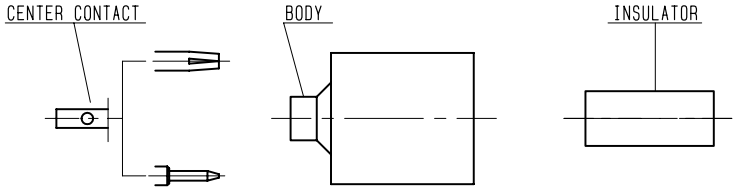


4-1 Slide sub-assembly into the connector body with the ferrule.
4-2 Crimp the body , crimping tool R282 211 000 (Hex. : 4.52) or crimping tool R282 293 000 (M22520/5-01) + dies R282 235 009 (M22520/5-09)

MOUNTING INSTRUCTIONS



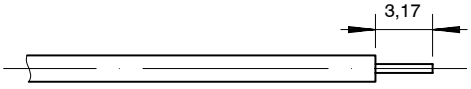
M 04



We recommend a thermal preconditionning of the cable before assembling .

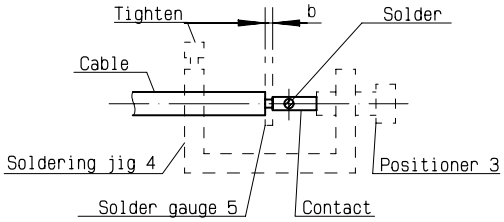
Connector P/N	b	1	2	3	4	5	6	7	8	9
R124 052 003	0,45	R282 051 000	R282 063 000	R282 744 220		R282 862 060	R282 744 062	R282 914 000	R282 915 010	R282 730 040
R124 222 000 **R124 222 003**	0,45	R282 051 000	R282 063 000	R282 744 220		R282.862 060	R282 744 063	R282 914 010	R282 915 010	R282 730 043
R124.225 000 **R124 225 003** **R124 251 000** **R124 251 003**	0,2	R282 053 000	R282 067 000	R282 744 220		R282 862 060	R282 744 011	R282 914 010	R282 915 010	R282 730 043
R124 252 000 **R124 252 003**	0,45	R282 051 000	R282 063 000	R282 744 220	**R282 740 000**	R282 862 060	R282 744 010	R282 914 010	R282 915 010	R282 730 043
R124 255 000 **R124 255 003**	0,2	R282 053 000	R282 067 000	R282 744 220		R282 862 060	R282 744 011	R282 914 010	R282 915 010	R282 730 043
R124 256 000 **R124 256 003**	0,45	R282 051 000	R282 063 000	R282 744 220		R282 862 060	R282 744 010	R282 914 010	R282 915 010	R282 730 043
R124 325 000 **R124 325 003**	0,2	R282 053 000	R282 067 000	R282 744 220		R282 862 060	R282 744 011	R282 914 010	R282 915 010	R282 730 043
R124 326 000 **R124 326 003**	0,45	R282 051 000	R282 063 000	R282 744 220		R282 862 060	R282 744 010	R282 914 010	R282 915 010	R282 730 043

1



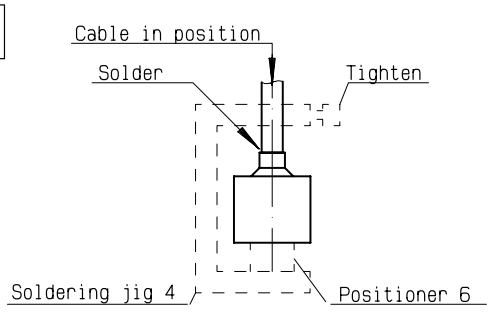
1-1 Strip the dieletric of the cable stripping tool (1)
1-2 Trim inner contact trimmer (2)
1-3 Clean the cable

2



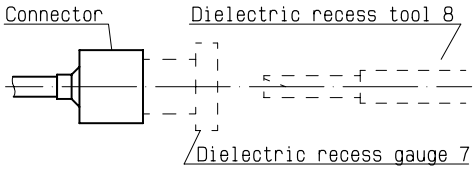
2-1 Screw the positioner (3) onto the soldering jig (4)
2-2 Slide contact into positioner (3)
2-3 Insert solder gauge (5) between contact and cable
2-4 Tighten and solder the contact

3



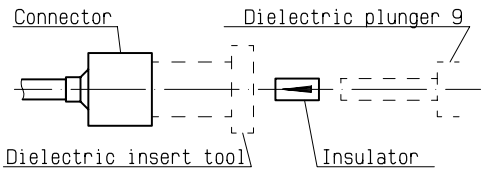
3-1 After cooling remove cable assembly from the jig
3-2 Screw positioner (6) into the connector
3-3 Slide cable into the connector until it bottoms against positioner (6) then tighten
3-4 Put 3 rings of solder around the cable and solder

4



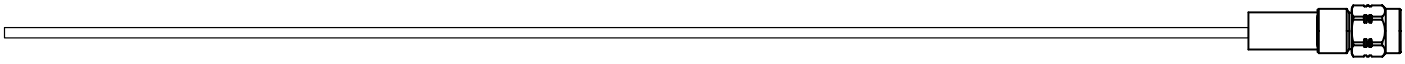
4-1 After cooling remove cable assembly from the jig
4-2 Screw the dielectric recess gauge (7) and trim the dielectric with the dielectric recess tool (8)

5

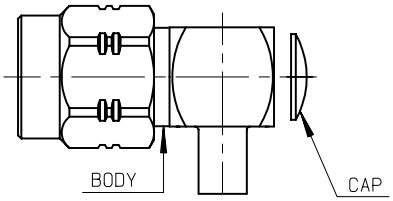


5-1 Screw female dielectric insert tool onto connector and insert insulator with the dielectric plunger (9)

MOUNTING INSTRUCTIONS



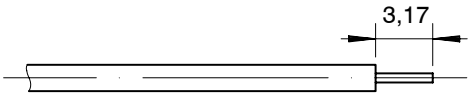
M 05



We recommend a thermal preconditionning of the cable before assembling

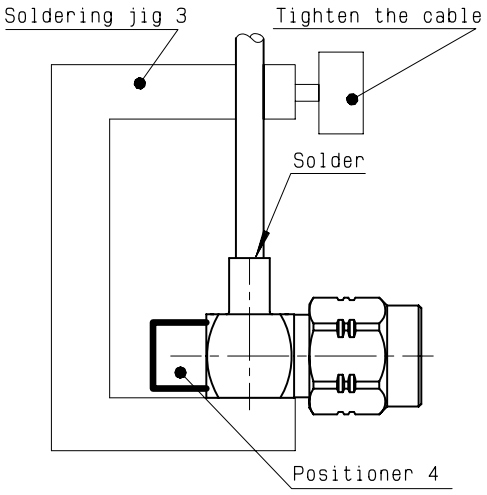
Connector P/N	1	2	3	4
R124 153 001 **R124 153 003**	R282 051 000	R282 063 000	R282 740 000	R282 744 201
R124 154 001 **R124 154 003**	R282 053 000	R282 067 000		

1



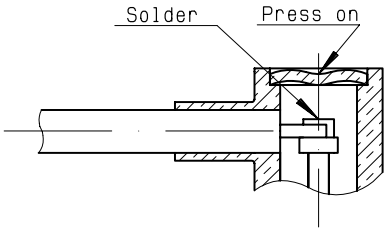
1-1 Strip the dieletric of the cable (stripping tool (1))
1-2 Trim inner contact (trimmer (2))
1-3 Clean the cable

2



2-1 Introduce the cable into the connector body until it stops.
2-2 Place the sub assembly into the soldering jig (3) (or equivalent) with positioner (4) and thighten it.
2-3 Solder the body onto the cable. Let the assembly cool down before removing it from the jig .

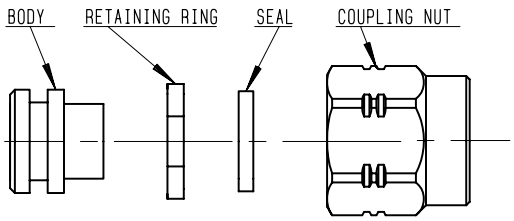
3



3-1 Solder inner conductor.
3-2 Put the cap in its place.
3-3 Press cap flush or slightly below surface of body assembly.

MOUNTING INSTRUCTIONS

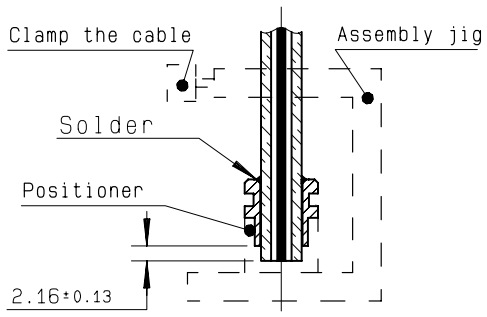
M 06



We recommend a thermal preconditionning of the cable before assembling

Connector P/N : **R124 054 001**
R124 054 003

1



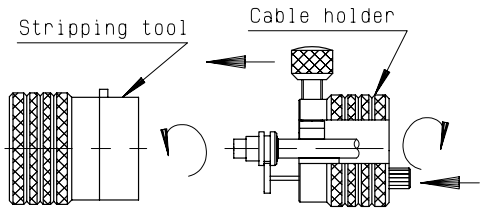
1-1 Place the cable into the assembly jig R282 740 000

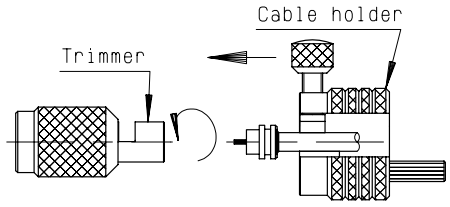
1-2 Place the connector body and positioner R282 744 100 onto the cable and clamp the cable

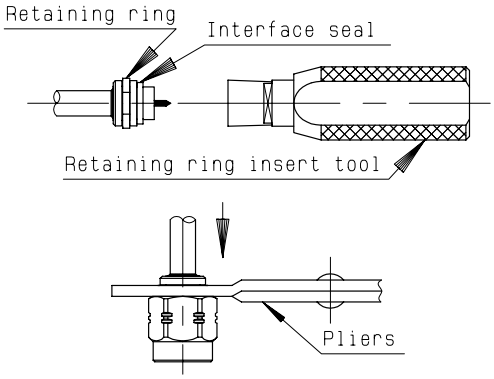
1-3 Put 3 rings of solder around the cable

1-4 Solder the body onto the cable

2







2-1 Immobilize the cable using the thumb crew on the cable holder R282 059 100

2-2 Get the positioner into the connector groove , using knurled push-buttom

2-3 Push buttom until it stops
Tighten cable

2-4 Present the stripping tool R282 053 100 opposite to the cable holder

2-5 Push and turn both elements with respect to each other

2-6 When the tool stops cutting : pull off without turning it

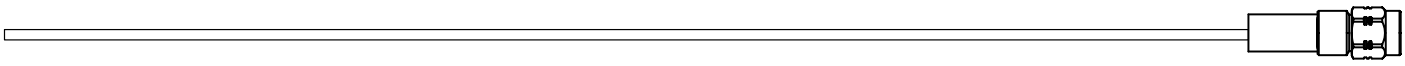
2-7 Present the trimmer R282 066 100 opposite to the cable holder,push and turn both elements with respect to each other until fully home

2-8 Place retaining ring onto its insert tool R282 760 000

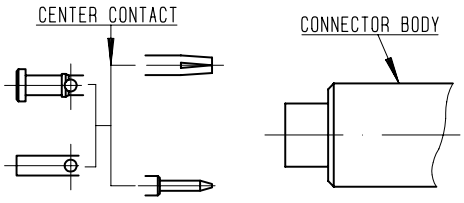
2-9 Push sub-assembly into the tool until the retaining ring snaps into place

2-10 Place the interface seal O ring onto body
Compress retaining ring using retaining ring pliers R282 200 000 .Push coupling nut onto sub-assembly and over retaining ring

MOUNTING INSTRUCTIONS



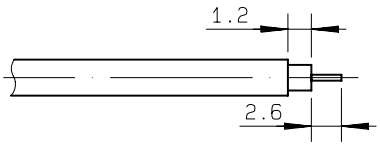
M 07



We recommend a thermal preconditionning of the cable before assembling

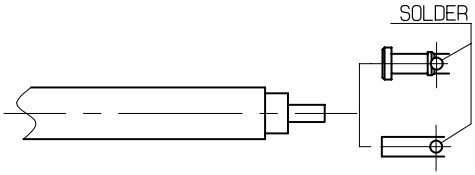
Connector P/N : **R124 052 520**

1



1-1 Strip the cable .

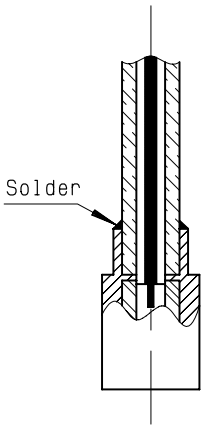
2



2-1 Slide contact on until it bottoms against cable dieletric.

2-2 Solder contact.

3

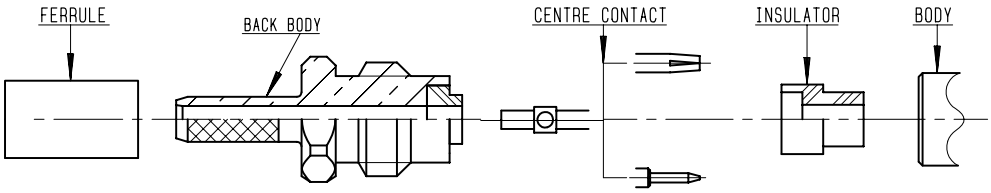


3-1 Introduce the cable into the connector body until contact with the body shoulder.

3-2 Solder body on the cable.

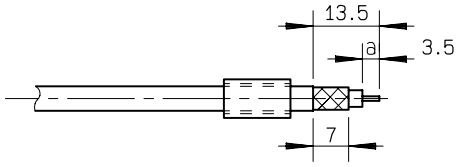
MOUNTING INSTRUCTIONS

M 08



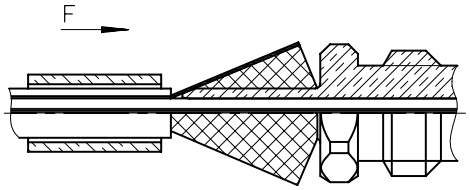
Connector P/N : **R124 069 120**
R124 069 123
R124 271 120
R124 271 123

1



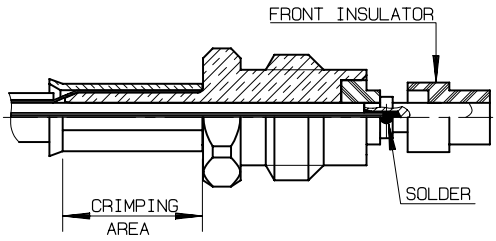
1-1 Slide the ferrule onto the cable
1-2 Strip the cable .

2



2-1 Fan the braid .
2-2 Slide the back body between dielectric and braid.
2-3 Slide ferrule over the braid . (In direction F)

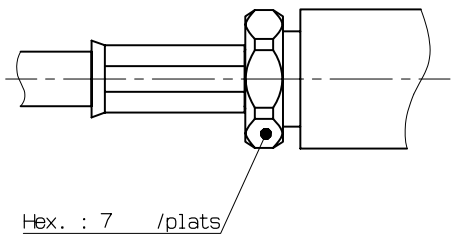
3



3-1 Crimp the ferrule with crimping tool (crimping tool board)

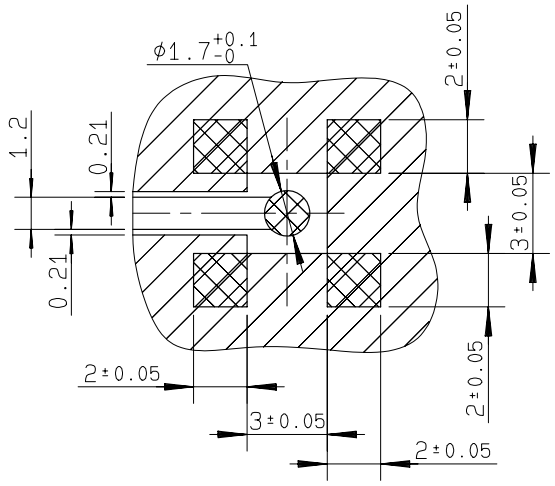
3-2 Mount the centre contact and solder it .
3-3 Mount the front insulator.

4



4-1 Screw sub-assembly into the connector body.
Recommended coupling torque 90 N.cm .

M 09

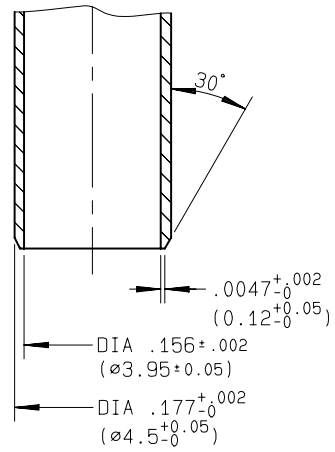


Pattern

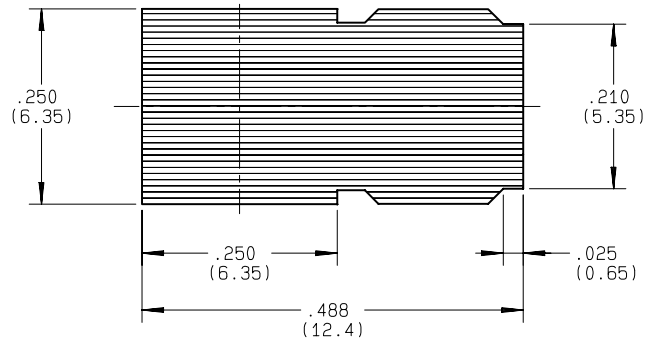
Land for solder paste

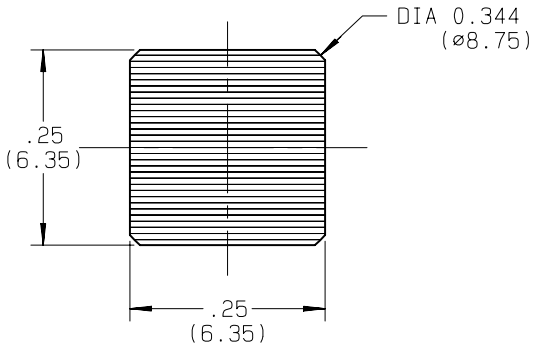
COPLANAR LINE
Pattern and signal are on the same side
Thickness of PCB : 1.6 mm
The material of PCB is the epoxy resin
of glass fabrios bacs.(Er = 4.8)
The solder resist should be printed
exept for the land pattern on the PCB

ASPIRATION PORT



SHADOW OF RECEPTACLE FOR VIDEO CAMERA





M 09 (flg)

A - SOLDERING PROCEDURE USING AUTOMATIC PICK AND PLACE EQUIPMENT :

1) Solder paste :

- RADIALL recommends using a **solder paste Sn63-Pb35-Ag2 type** (63% tin - 35% lead - 2% silver) **"no clean - low residue"** (50% solid residue of flux quantity) that will permit the **elimination of the cleaning operation step** after soldering
- When using a conventional solder paste with high level (50%) of flux solid residue, it is important to incorporate a good cleaning operation step, similar to what is described below in paragraph 5.
- Note : when choosing a solder paste for gold-plated PCB pattern, it is important to use a paste made with silver. This will help to avoid formation of intermetallics as part of the solder joint.

2) Solder paste deposition :

- The solder paste should be deposited on the designated zone areas (see patterns p 44) by a screen printing process. RADIALL advises a thickness of .008" (0.2 mm).
- If using a thickness of less than .008" (0.2mm) the zone area must be specifically designed for this thickness (please consult RADIALL)
- Please optically verify that the edges of the zone are clean and without contaminates.

3) Placement of the component :

- Place the receptacle onto the PCB with automatic pick and place equipment. Please verify that the PCB zoned areas have not oxydised.
- RADIALL does not recommend using adhesive agents on the receptacle or on the PCB
- The use of a video camera is prefered for checking the positioning of the components (see video shadows p 44)

4) Soldering : infra-red reflow process :

- Please follow RADIALL's recommended profile as illustrated.
- When using a "no clean - low residue" type of solder paste, RADIALL recommends a linear pre-heat profile not to exceed 160°C with a 1 to 2°C /s. rise.

5) Cleaning of the PCB :

- When using a conventional solder paste with high level of residue, please clean the PCB with a substitute product, similar to CFC, that complies with International Environmental Agency rules.
- RADIALL recommends using a vapor phase process (ultrasonic waves are acceptable)

6) Quality Check :

- Verify by visual inspection that center contact of the receptacle has not been contaminated by solder or flux.
- Solder joints : verify by visual inspection that the formation of meniscus on the sides of the receptacle legs are proper.

B - SOLDERING PROCEDURE BY MANUAL OPERATION :

1) Solder paste : (Refer to procedure A - 1)

2) Flux deposition :

- Deposite a thin layer of flux on mounting zone.
- Allow the flux to evaporate a few seconds before applying the solder paste (in order to avoid dilution of the paste).

3) Solder paste deposition :

- Deposite a small quantity of solder paste on mounting zone area by syringe.
- Be careful, do not apply solder paste outside of the zone area.

4) Placement of the component :

- Lift the body of the receptacle with tweezers. Do not use your fingers (fingers risk twisting the legs of the receptacle or ejecting the center contact and can contaminate contact surfaces)
- Place the component on the mounting zone by pressing lightly on the top of the receptacle with tweezers. The receptacle legs will stick into the solder paste.

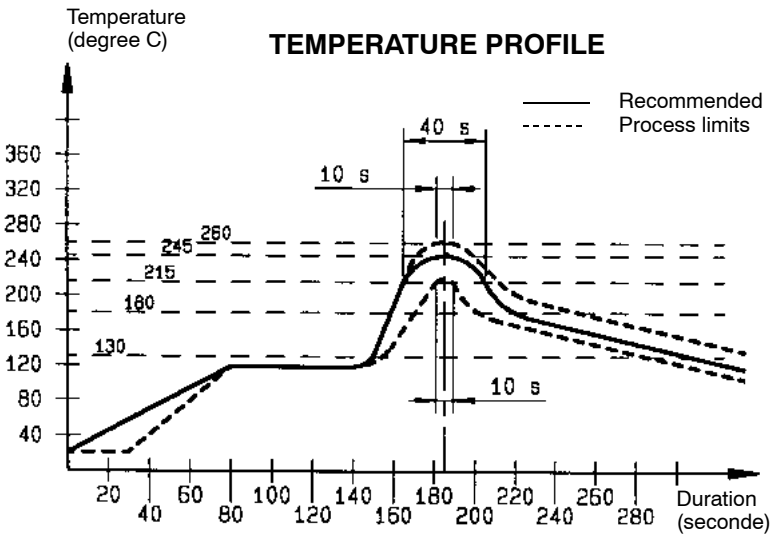
5) Soldering :

- Pre-heat stage : use a heat gun (soldering iron is not recommended) at a distance of .800" (20 mm) from the receptacle, applying the jet of air in a continuous circular motion, until the solder paste starts to look dull. This stage avoids any thermal shock since both areas to be soldered are brought up to the same temperature.
- Final re-melting step is carried out by moving the heat gun to a closer distance of .200" (5 mm) from the receptacle while guiding the jet of air onto each receptacle leg, at a 45° angle.

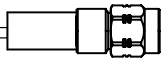
6) Cleaning of the PCB : (Refer to procedure A - 5)

7) Quality check : (Refer to procedure A - 6)

TEMPERATURE PROFILE



CABLE DIMENSIONS



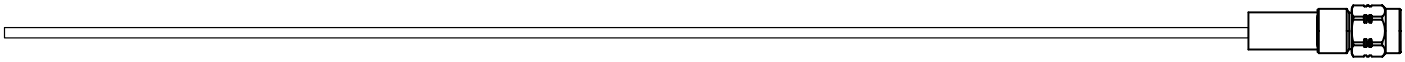
CABLE DIMENSIONS REFERENCE CHART

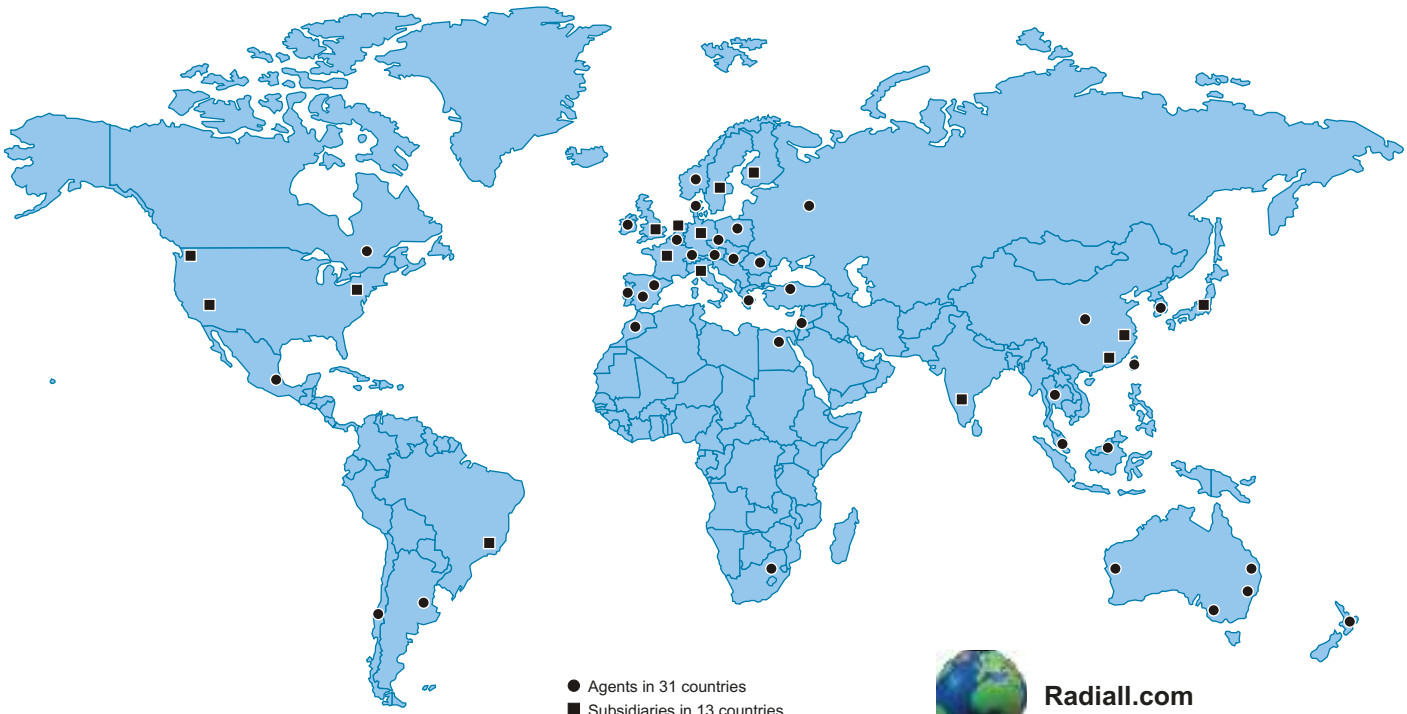
The following tables are presented as a convenient reference only. For detailed specifications, refer to the relevant standard or cable manufacturer's specifications. All dimensions are nominal unless otherwise specified.

CABLE	IMP NOM. Ω	DIMENSIONS inch (mm)					CABLE GROUP inch (mm)/Ω
		CORE		DIELECTRIC	SCREEN DIA. + numb.	JACKET	
		Composition	DIA nom.				
FLEXIBLE AND SEMI-RIGID CABLES MIL – C – 17 – F							
RG 6A/U	75	single core	.028 (0,72)	.185 (4,70)	.263 (6,70) (D)	.332 (8,43)	.315 (8)/75 D
RG 11A/U	75	7 X 0,40	.047 (1,20)	.285 (7,25)	.340 (8,64) (S)	.405 (10,29)	.394 (10)/75 S
RG 58C/U	50	19 X 0,18	.035 (0,89)	.116 (2,95)	.150 (3,81) (S)	.195 (4,95)	.197 (5)/50 S
RG 59B/U	75	single core	.022 (0,57)	.146 (3,71)	.191 (4,85) (S)	.242 (6,15)	.236 (6)/75 S
RG 62B/U	93	single core	.025 (0,64)	.146 (3,71)	.191 (4,85) (S)	.242 (6,15)	.236 (6)/93 S
RG 71B/U	93	single core	.025 (0,64)	.146 (3,71)	.208 (5,28) (D)	.245 (6,22)	.236 (6)/93 D
RG 141A/U	50	single core	.039 (0,99)	.116 (2,95)	.146 (3,71) (S)	.190 (4,83)	.197 (5)/50 S
RG 142B/U	50	single core	.037 (0,94)	.116 (2,95)	.171 (4,34) (D)	.195 (4,95)	.197 (5)/50 D
RG 174A/U	50	7 X 0,16	.019 (0,48)	.060 (1,52)	.088 (2,24 (S)	.110 (2,79)	.102 (2,6)/50 S
RG 178B/U	50	7 X 0,10	.012 (0,30)	.033 (0,84)	.054 (1,37) (S)	.071 (1,80)	.079 (2)/50 S
RG 179B/U	75	7 X 0,10	.012 (0,30)	.063 (1,60)	.083 (2,13) (S)	.010 (2,54)	.102 (2,6)/75 S
RG 188A/U	50	7 X 0,18	.020 (0,51)	.060 (1,52)	.081 (2,06) (S)	.110 (2,79)	.102 (2,6)/50 S
RG 212/U	50	single core	.056 (1,41)	.185 (4,70)	.210 (5,34) (D)	.331 (8,43)	.315 (8)/50 D
RG 213/U	50	7 X 0,75	.089 (2,25)	.285 (7,25)	.340 (8,64) (S)	.405 (10,29)	.394 (10)/50 S
RG 214/U	50	7 X 0,75	.089 (2,25)	.285 (7,25)	.360 (9,14) (D)	.425 (10,80)	.433 (11)/50 D
RG 216/U	75	7 X 0,40	.047 (1,20)	.285 (7,25)	.360 (9,15) (D)	.425 (10,80)	.433 (11)/75 D
RG 217/U	50	single core	.106 (2,69)	.370 (9,40)	.463 (11,76) (D)	.545 (13,84)	.551 (14)/50 D
RG 218/U	50	single core	.195 (4,95)	.680 (17,27)	.760 (19,30) (S)	.870 (22,10)	.866 (22)/50 S
RG 316/U	50	7 x 0,17	.020 (0,51)	.060 (1,52)	.081 (2,06) (S)	.098 (2,49)	.102 (2,6)/50 S
RD 316	50	7 x 0,17	.020 (0,51)	.060 (1,52)	.087 (2,2)2 (D)	.110 (2,80)	.102 (2,6)/50 D
RG 401/U	50	single core	.064 (1,63)	.209 (5,31)	– –	.250 (6,35)	.250"
RG 402/U	50	single core	.036 (0,92)	.117 (2,98)	– –	.141 (3,58)	.141"
RG 405/U	50	single core	.020 (0,51)	.066 (1,68)	– –	.087 (2,20)	.085"
FLEXIBLE CABLES NF–C 93–550 / SEMI–RIGID CABLES NF–C 93–551							
KX 3B	50	7 X 0,16	.019 (0,48)	.059 (1,50)	.088 (2,23) (S)	.10 (2,54)	.102 (2,6)/50 S
KX 4	50	7 X 0,75	.089 (2,25)	.285 (7,25)	.340 (8,64) (S)	.405 (10,29)	.394 (10)/50 S
KX 6A	75	7 X 0,20	.024 (0,60)	.146 (3,70)	.191 (4,85) (S)	.240 (6,10)	.236 (6)/75 S
KX 8	75	7 X 0,40	.047 (1,20)	.285 (7,25)	.340 (8,64) (S)	.405 (10,29)	.394 (10)/75 S
KX 13	50	7 X 0,75	.089 (2,25)	.285 (7,25)	.360 (9,14) (D)	.425 (10,80)	.433 (11)/50 D
KX 14	50	single core	.197 (5,00)	.681 (17,30)	.760 (19,30) (S)	.870 (22,10)	.866 (22)/50 S
KX 15	50	19 X 0,18	.035 (0,89)	.116 (2,95)	.150 (3,81) (S)	.195 (4,95)	.197 (5)/50 S
KX 21A	50	7 X 0,10	.012 (0,30)	.034 (0,87)	.054 (1,37) (S)	.071 (1,80)	.79 (2)/50 S
KX 22A	50	7 X 0,18	.020 (0,51)	.059 (1,50)	.081 (2,06) (S)	.098 (2,50)	.102 (2,6)/50 S
KX 22D	50	7 X 0,17	.020 (0,51)	.059 (1,50)	.098 (2,50) (D)	.118 (3,00)	.102 (2,6)/50 D
KX 23	50	7 X 0,34	.040 (1,02)	.116 (2,95)	.171 (4,34) (D)	.200 (5,10)	.197 (5)/50 D
KX 24	50	7 X 0,80	.094 (2,40)	.285 (7,25)	.360 (9,14) (D)	.429 (10,90)	.433 (11)/50 D
KX 25	75	7 X 0,23	.028 (0,71)	.146 (3,70)	.176 (4,47) (S)	.232 (5,90)	.236 (6)/75 S
KX 30	93	single core	.025 (0,64)	.146 (3,70)	.191 (4,85) (S)	.242 (6,15)	.236 (6)/93 S
KX 52	75	single core	.025 (0,64)	.146 (3,70)	.185 (4,70) (S)	.240 (6,10)	.236 (6)/75 S
KS 1	50	single core	.020 (0,515)	.066 (1,67)	– –	.086 (2,18)	.085"
KS 2	50	single core	.036 (0,915)	.118 (3,00)	– –	.140 (3,58)	.141"
KS 3	50	single core	.064 (1,63)	.210 (5,33)	– –	.250 (6,35)	.250"
CORRUGATED CABLES 50 Ω							
HELIAX FSJ1-50A			.075 (1,90)	.185 (4,70)	.252 (6,40)	.291 (7,40)	1/4"/50 spiralé
HELIAX FSJ4-50B			.142 (3,60)	.342 (8,70)	.480 (12,20)	.520 (13,20)	1/2"/50 spiralé
GEDELEX 3,7/50 CCES - 1/2"			.140 (3,56)	.331 (8,40)	.472 (12,00)	.531 (13,50)	1/2"/50 spiralé
GEDELEX 2,3/50 CC - 1/4"			.094 (2,40)	.236 (6,00)	.295 (7,50)	.394 (10,00)	1/4"/50 annulat.
HELIAX LDF4-50A			.189 (4,80)	.457 (11,60)	.551 (14,00)	.630 (16,00)	1/2"/50 annulat.
GEDELEX 4,8/50 CCFP - 1/2"			.189 (4,80)	.468 (11,90)	.543 (13,80)	.650 (16,50)	1/2"/50 annulat.
ETHERNET CABLES 50 Ω							
ACOME P 1977 A *(BULL approval)*			.085 (2,17)	.242 (6,15)	.325 (8,26) (D)	.406 (10,30)	Ethernet
BELDEN 9880			.085 (2,17)	.247 (6,27)	.315 (8,00) (D)	.405 (10,28)	Ethernet
FILOTEX 63227			.085 (2,17)	.252 (6,40)	.327 (8,30) (D)	.406 (10,30)	Ethernet
BICC H8 112			.085 (2,17)	.250 (6,35)	.326 (8,29) (D)	.406 (10,30)	Ethernet
PRECICABLE CY 120			.094 (2,40)	.252 (6,40)	.323 (8,20) (D)	.406 (10,30)	Ethernet
TIMES A A4779			.087 (2,20)	.242 (6,14)	.370 (9,40) (D)	.409 (10,40)	Ethernet

(**S**) : 1 braid ; (**D**) : 2 braids

commercial SMA





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