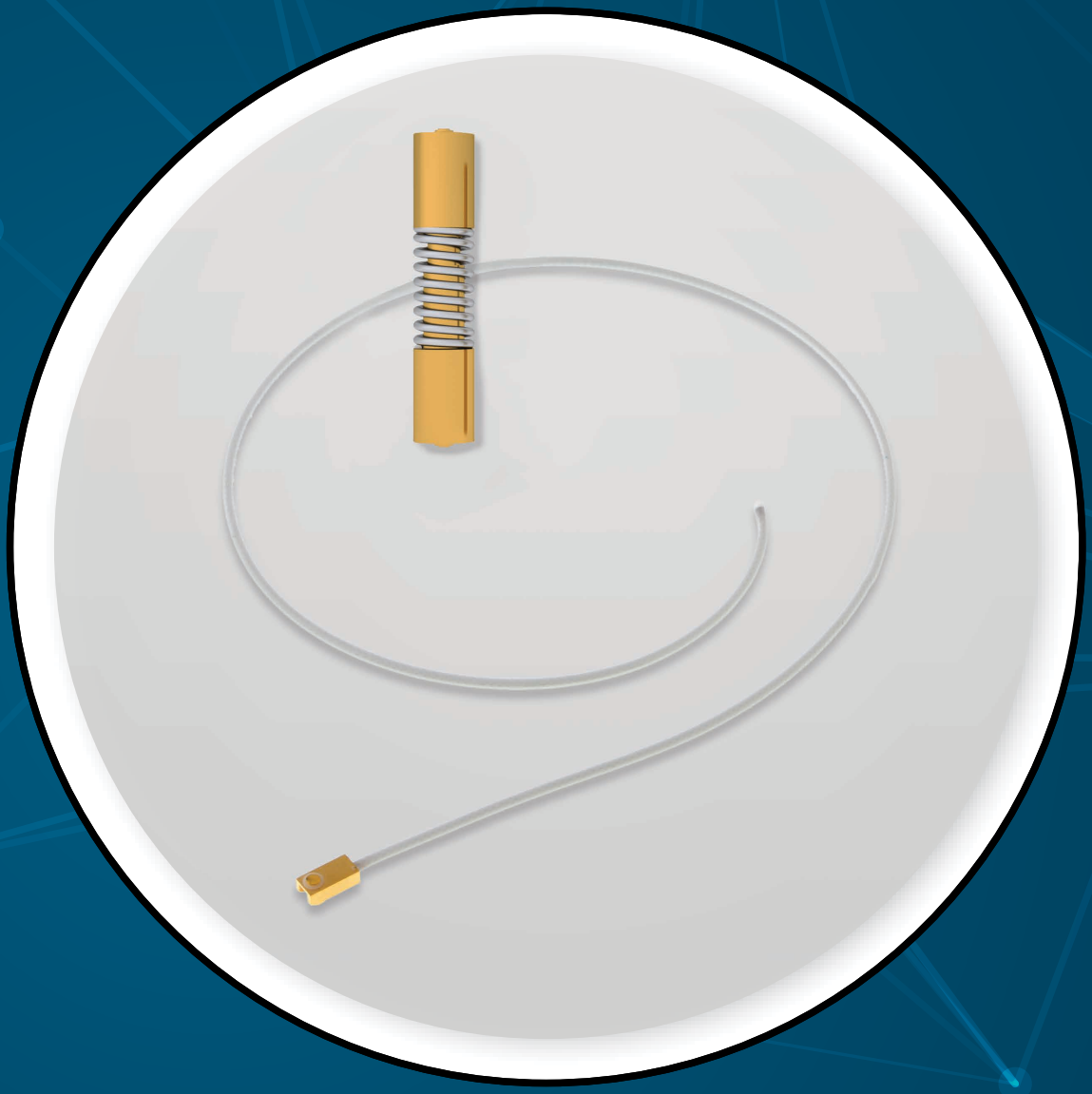
Mob: +91 7217885948 www.rfconnector.in pradeeep@rfconnector.in



MISCELLANEOUS: BR2/TYPE 43/UHF/IMP/UMP

R605/R214/R155/R107

Plot no. 845, DSIIDC Industrial Area KHASRA NO. 33/23 (0-7) & 37/4 (0-10)Gali no. 6, near Harnandi dharam kanta Mundka Industrial Area, New Delhi, Delhi, 110041

Plot no. 845, DSIIDC Industrial Area KHASRA NO. 33/23 (0-7) & 37/4 (0-10)Gali no. 6, near Harnandi dharam kanta Mundka Industrial Area, New Delhi, Delhi, 110041

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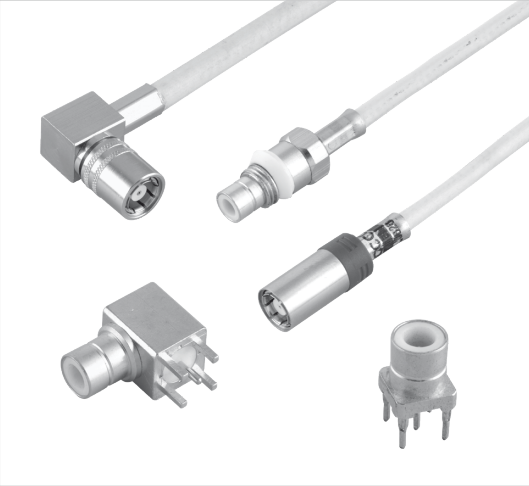
Type 43

INTRODUCTION



75Ω	DC - 3 GHz

GENERAL

- Standard coaxial connectors
- Reliable lock coupling
- 3 types: Standard Density (12.7mm)
  - High Density (10mm)
  - Ultra High Density (9mm)

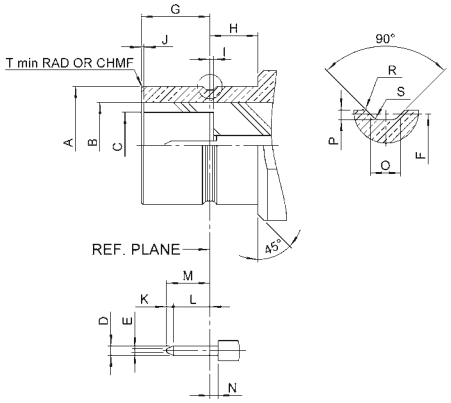
APPLICABLE STANDARDS

- BS9210 F0022

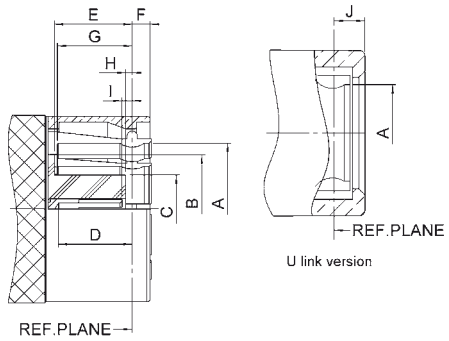
APPLICATIONS

- Telecom DDF (Digital Distribution Frames)

INTERFACE



PLUG



JACK

LETTER	MM		INCH	
	MIN	MAX	MIN	MAX
A DIA	6.20	6.23	.244	.245
B DIA	5.25 NOM		.207 NOM	
C DIA	3.4	3.475	.134	.137
D DIA	0.48	0.52	.019	.02
E DIA	0.125	0.225	.005	.009
F DIA	5.97	6.02	.235	.237
G	3.5	3.55	.138	.14
H	2.4	2.55	.095	.1
I	0.05	0.175	.002	.007
J	0.00	0.10	0.00	.004
K	0.25	0.35	.01	.014
L	1.35	-	.053	-
M	-	2.05	-	.081
N	-	0.18	-	.007
O	0.58 NOM		.023 NOM	
P	0.15	0.25	.006	.01
R	0.05	0.15	.002	.006
S	-	0.13	-	.005
T	0.1	0.2	.004	.008

LETTER	MM		INCH	
	MIN	MAX	MIN	MAX
A DIA	6.31	6.26	.248	.25
B DIA	5.25 NOM		.207 NOM	
C DIA	3.22	3.30	.127	.13
D	3.2	3.53	.126	.139
E	3.63	3.83	.143	.151
F	-	1.8	-	.071
G	3.61	3.77	.142	.148
H	0.23	0.38	.009	.015
I	0.23	0.48	.009	.019
J	1.475	1.97	.058	.078

Type 43

TYPE 43 GENERAL TECHNICAL SPECIFICATION

Radiall 75Ω coaxial Type 43 connectors are designed to meet or exceed the requirements of BS9210 F0022. The following information is subject to change without notice. The performance values shown are typical and may not relate to all connector styles available.

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS

ELECTRICAL CHARACTERISTICS

Impedance	75Ω
Frequency Range	DC - 3 GHz
Temperature Range	-40 °C to + 100 °C
V.S.W.R. (Straight Connectors)	1.20 max
V.S.W.R. (Right Angle Connectors)	1.25 max
Voltage Rating	500 Vrms max
Dielectric Withstanding Voltage	1500 Vrms min
Insulation Resistance	5000 MΩ min

MECHANICAL CHARACTERISTICS

Durability	250 matings
Cable Retention (Plug Connectors) (Socket Connectors)	60 to 220 N min [3]
Center Contact Retention (Plug Connectors) (Socket Connectors)	22 N min
Weight	10 g (grams) typical

MATERIALS AND PLATING

Components	Materials	Platings
Body Components [1]	Brass	Selective Gold
Outer Contact	Bronze	Selective Gold
Center Contact (Male)	Brass	Gold
Center Contact (Female)	Beryllium Copper	Gold
Insulator	PTFE	N/A
Panel Grommet	Polyacetal	N/A
Ferrule	Brass	Nickel
Panel Mounting Hardware [2]	Brass or Phosphor Bronze	Nickel

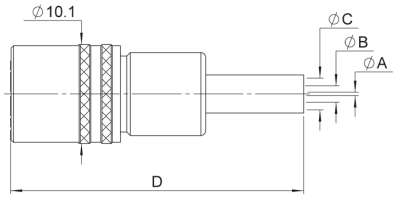
Notes

1.In general all Type 43 series connector bodies are gold plated in mating areas.
As a note, the single piece Type 43 connector body is gold plated in the mating area with other surfaces being nickel coated.
All multi-piece connector bodies comprise of a gold plated front body (mating area) and a nickel plated back body (crimp area).
2. Panel mounting hardware includes components such as - nut, washer, spacer etc.
3. Lower cable retention value for RG179 - 60 N min and BT3002/TZC 75024 - 150 N min

Standard Density

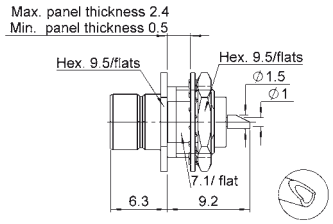
PLUGS, SOCKETS AND RECEPTACLES

STRAIGHT SOCKETS CRIMP TYPE FOR FLEXIBLE CABLES



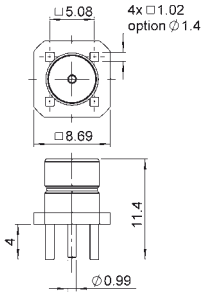
CABLE GROUP	CABLE GROUP DIA.	BT REFERENCE	PART NUMBER	DIMENSIONS				PACKAGING
				A	B	C	D	
BT3002	3.6/75/D	S 43/5 FS	R214 083 922	0.36		4.47	3.2	20 Pieces

STRAIGHT BULKHEAD RECEPTACLE WITH SOLDER POT



PART NUMBER	PANEL DRILLING	PACKAGING
R214 553 000	P02	Unit

STRAIGHT PCB PLUG RECEPTACLES

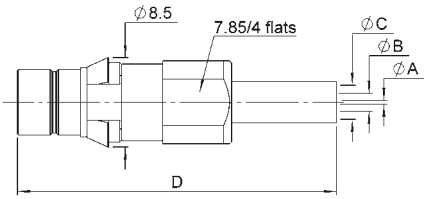


BT REFERENCE	PART NUMBER	PANEL DRILLING	PACKAGING
P 43/1 D	R214 426 704	P01	100 Pieces

High Density and Ultra High Density

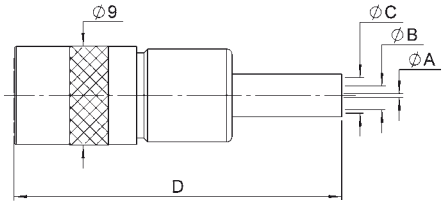
PLUGS

STRAIGHT PLUGS CRIMP TYPE FOR FLEXIBLE CABLES



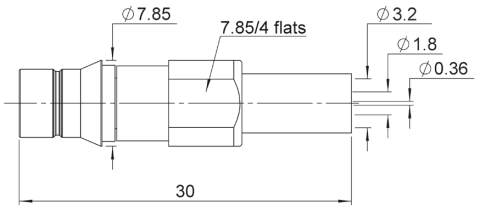
CABLE GROUP	CABLE GROUP DIA.	BT REFERENCE	PART NUMBER	DIMENSIONS				PANEL DRILLING	PACKAGING
				A	B	C	D		
RG179	2.6/75/S	HDC 43/4 GTIS	R214 318 702	0.38	1.73	3.25	3.5	P03	20 Pieces
BT3002	3.6/75/D	HDC 43/5 GTIS	R214 318 722	0.36	2.10	4.47			
RA7000	4.5/75/D	HDC 43/7 GTIS	R214 325 742	0.69	3.00	5.48			

STRAIGHT SOCKETS CRIMP TYPE FOR FLEXIBLE CABLES



CABLE GROUP	CABLE GROUP DIA.	BT REFERENCE	PART NUMBER	DIMENSIONS				PACKAGING
				A	B	C	D	
RG179	2.6/75/S	HDC 43/4FS	R214 088 902	0.38	1.73	3.25	32	20 Pieces
BT3002	3.6/75/D	HDC 43/5FS	R214 088 922	0.35	2.10	4.47	30	

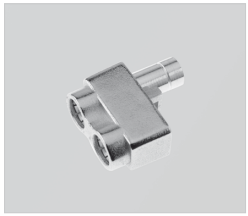
STRAIGHT PLUG CRIMP TYPE FOR FLEXIBLE CABLES



CABLE GROUP	CABLE GROUP DIA.	BT REFERENCE	PART NUMBER	FIG	PANEL DRILLING	PACKAGING
RG179	2.6/75/S	UHDC 43/4 GTIS	R214 320 702	1	P04	20 Pieces
BT3002	3.6/75/D	UHDC 43/5 GTIS	R214 320 722	2		

High Density

U LINKS



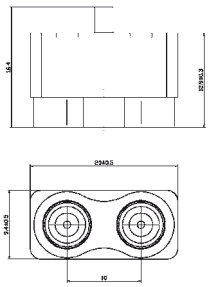


FIG. 1

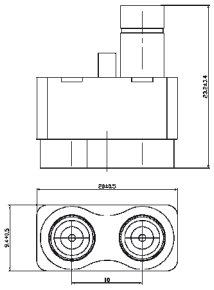


FIG. 2

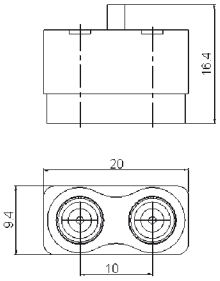


FIG. 3

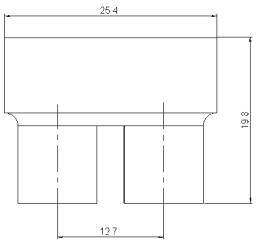


FIG. 4

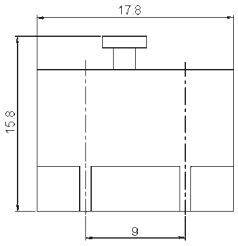


FIG. 5

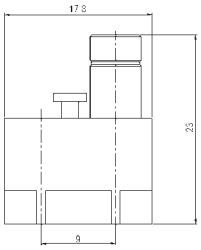
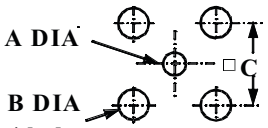


FIG. 6

BT REFERENCE	PART NUMBER	FIG.	PACKAGING
U Link 10A	R214 797 703	1	50 Pieces
U Link 10B	R214 798 703	2	
U Link 13A	R214 790 703	3	
U Link 13B	R214 791 703	4	
U Link 9A	R214 797 723	5	
U Link 9B	R214 798 723	6	

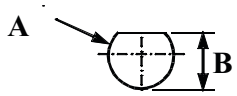
PANEL DRILLING

P01



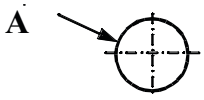
	mm	
	Maxi	mini
A	1.5	1.2
B	2.0	1.7
C	5.1	5.06

P02



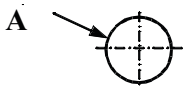
	mm	
	Maxi	mini
A	8.04	7.94
B	7.5	7.4

P03



	mm	
	Maxi	mini
A	7.55	7.5

P04



	mm	
	Maxi	mini
A	7.35	7.05

IMP/UMP

INTRODUCTION

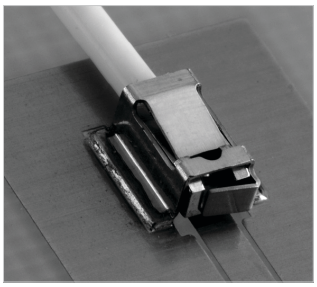
Radiall introduced the MMP contact technology (Micro Miniature Pressure) in 2001 to meet the needs of the telecommunication industry for ultra low profile and cost effective board connectors. The MMP technology can be found in 2 product lines:

- IMP series: RF Board-to-Board application
- UMP series: RF board to wire application

BOARD-TO-BOARD APPLICATION

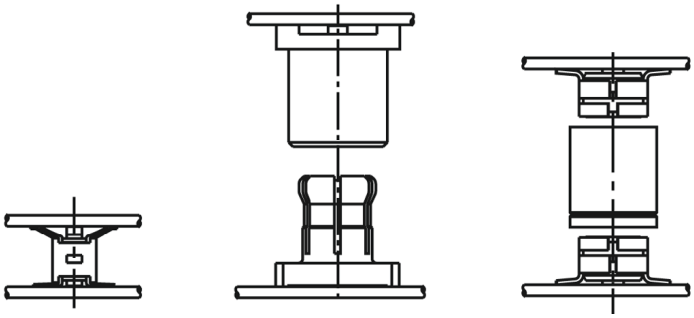
IMP

BOARD-TO-BOARD APPLICATION



UMP

The **IMP** series (**I**nterconnect **M**icro miniature **P**ressure contact) consists of 1 coaxial connector when usually the same application requires either 2 coaxial connectors (a male SMT receptacle and a female SMT receptacle), or 3 coaxial connectors (2 SMT receptacles and an adapter).

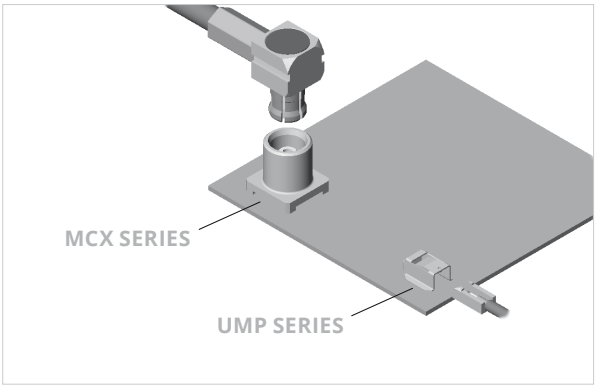


IMP
One Piece Connector

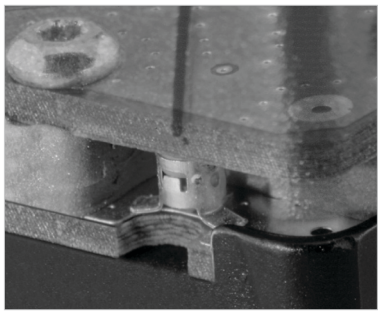
MCX
2 Coaxial Connectors

MMS
3 Coaxial Connectors

The **UMP** series (**U**ltra **M**iniature **P**ressure contact) consists of 1 coaxial plug and 1 SMT edge receptacle.



IMP/UMP



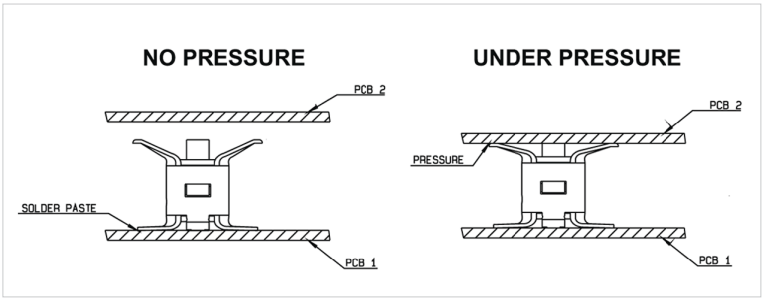
IMP PRODUCT FEATURES

- Cost effective solution: one piece connector only
- High density
- Lightweight connector: (example 0.02 g for the IMP 2 mm)
- Low profile for a board-to-board coaxial connections (2 mm)

IMP INSTALLATION

The distance between the 2 boards should be precisely measured by a mechanical device (such as spacers).

Contact Radiall for support regarding the layout in your particular application. Application notes are available upon request.

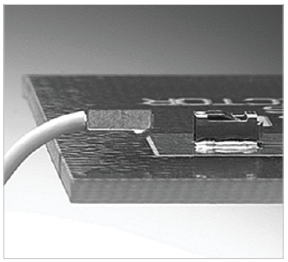


IMP PRODUCT RANGE

IMP is available in 2 mm board-to-board distance. Other heights can be developed upon request.

UMP PRODUCT FEATURES

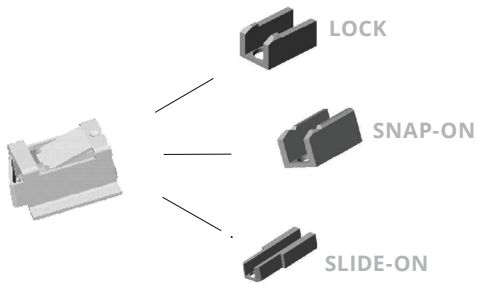
- Low profile: 2 mm and 3 mm
- Small space for connection: needs only 2 mm of height
- Cost effective solution: 1 coax connector only
- Large cable range from 0.8 to 2.6 mm
- High durability, up to 10,000 cycles



UMP TYPE OF MATING:

- Lock: - Can only be disconnected using a tool
  - Number of matings 100
  - Withstands severe vibrations
- Snap-on: - Number of matings 3000
- Snap-on: - Number of matings 10,000
  - For test applications

Plug exist with the 3 types of mating:



APPLICATIONS

IMP and UMP series can be used for board-to-board and board-to-antenna applications:

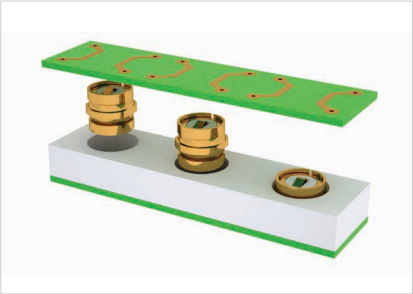
- WLAN
- RFID
- Handheld Radios
- Automotive
- GPS Receivers

IMP

FULL SOLDERLESS

IMP FULL SOLDERLESS FEATURES

- Low profile (Board-to-Board distance: 1.41 mm) and small pitch (IMP diameter: 2.8 mm)
- High frequency range (designed for Ku band applications – up to 20 GHz)
- Designed to work in harsh environments, such as airborne platforms



IMP FULL SOLDERLESS INSTALLATION

Most targeted applications for such low Board-to-Board distances or high density integration use a cold plate between Printed Circuit Boards (PCB).

Using this application constraint to receive IMP (to create a cavity) generates a high cost advantage for product integration or maintenance. Its design delivers high performances and signal integrity even in vibration conditions.

IMP FULL SOLDERLESS RANGE

IMP Full Solderless Range:

- IMP-LP (Low Profile)
  The "single model" IMP-LP provides a lower Board-to-Board distance up to 1.41 mm, with an outer diameter of 3.9 mm. To achieve higher Board-to-Board distance (up to 5 mm), Radiall designed a "double model" that provides twice the axial tolerance of the "single model" with the same outer diameter (3.9 mm).
- IMP-HD (High Density)
  When applications require a high density integration, Radiall offers a smaller product with a diameter of 2.8 mm. As most of those applications require a higher Board-to-Board distance, IMP-HD features a wide axial tolerance up to 1 mm. Low phase noise performance is available upon request.
- IMP-LP "Hybrid"
  This solderless solution addresses interconnections between two PCBs or a front panel to a PCB. Encapsulating the IMP-LP "double model" into a panel front interface (eg: SMP, SMP-Lock. etc.), this product becomes an IMP-LP Hybrid that combines an interface similar to to IMP-LP's size and performance. Please contact Radiall for more information on this product family.

APPLICATIONS

As designed for applications up to Ku band, the IMP full solderless range is ideal for antennas, radars and seekers.

ELECTRICAL CHARACTERISTICS

	IMP-LP	IMP-HD
Impedance	50Ω	
Frequency Range	18 GHz	20 GHz
V.S.W.R.	≤ 1.3 @ 12 GHz ≤ 1.5 @ 18 GHz	≤ 1.4 @ 18 GHz
Insertion Loss	0.20 dB max	0.15 dB max

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

	IMP-LP	IMP-HD
Weight	≥ 110 mg	320 mg
Outer Diameter	3.9 mm	2.8 mm
Board to Board Distance	≥ 1.41 mm	Typ. 13.4 mm
Operating Temperature	-55/+125 °C	
Vibrations	MIL STD 810 G	

IMP

FULL SOLDERLESS SOLUTIONS

IMP-LP

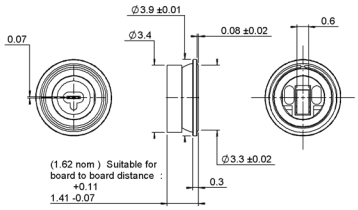


FIG. 1

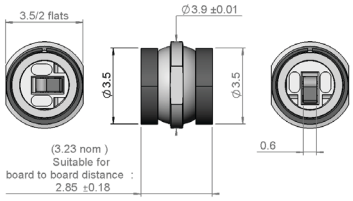
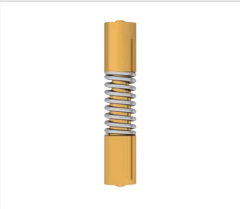


FIG. 2

PART NUMBER	FIG.	BOARD TO BOARD DISTANCE (A)
R107 802 000	1	1.41 mm
R107 803 000	2	2.85 mm
R107 803 020	2	3.10 mm
For information on other Board-to-Board distances, please contact Radiall.		

IMP-HD



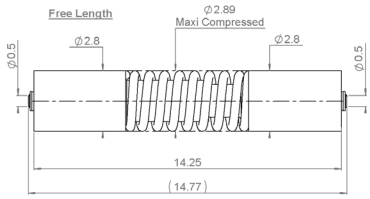


FIG. 1

PART NUMBER	FIG.	BOARD TO BOARD DISTANCE (A)	REMARK
R107 064 930	1	13.4 mm	-
R107 064 944	1	13.4 mm	-

IMP-LP HYBRID

PART NUMBER	FRONT INTERFACE
R107 820 300	SMP-LOCK
R107 820 310	SMP Smooth Bore
R107 851 000	MCC#12

IMP-LP HYBRID EDGE RECEPTACLE

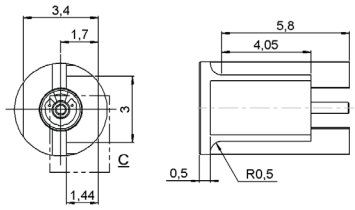


FIG. 1

PART NUMBER	FIG.	REMARK
R107 830 000	1	Compatible with R107 820 300/R107 820 310/R107 851 000

IMP

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS

ELECTRICAL CHARACTERISTICS

	IMP LP	IMP HD
Impedance	50Ω	
Frequency	0-18 GHz	0-20 GHz
V.S.W.R.	+ 0.0000 x F (GHz) Maxi	
Insertion Loss	0.2 dB Max	0.2 F(GHz) dB Max
RF Leakage	-	-
Voltage Rating	225 Veff Max	
Dielectric with Standing Voltage	500 Veff Max	
Insulation Resistance	1,000 MΩ min	

MECHANICAL CHARACTERISTICS

	IMP LP	IMP HD
Cable Contact Retention **• Axial force – Mating End** **• Axial force – Opposite End**	 0.5 N mini 0.5 N mini	 10 N mini 10 N mini
Mating Life	50 Cycles mini	
Nominal Weight	0.1600 g	0.3800 g
Minimum Compression	Typ.5N	Overall length: L = 13.9 Maxi Load = 4.5 N min
Maximum Compression	Typ.5N	Overall length: L = 12.9 mini Load = About 10 N Max

ENVIRONMENTAL CHARACTERISTICS

	IMP LP	IMP HD
Operating Temperature	-55/+125 °C	-65/+165 °C
Hermetic Seal	NA Atm.cm3/s	
Panel Leakage	NA	

MATERIALS

	IMP LP	IMP HD
Body	Bronze	Beryllium Copper
Center Contact	Beryllium Copper	
Insulator	Peek	
Other Parts	Beryllium Copper	Steel

PLATING

	IMP LP	IMP HD
Body	NPGR	NPGR
Center Contact	Gold	Gold

IMP/ump

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS

ELECTRICAL CHARACTERISTICS

	IMP	UMP
Impedance	50Ω	
Frequency	DC - 6 GHz	
V.S.W.R. Max	1.3	1.05 + 0.03F (mated connectors)
Insertion Loss (dB)	0.2 √F (GHz)	
RF Leakage		-40dB min at 2 GHz
Insulation Resistance	3000MΩ	1000MΩ min
Contact Resistance (depending on PC board) **• Center Contact** **• Outer Contact**	 60 mΩ 10 mΩ	
Working Voltage	100 VRMS	
Dielectric Withtanding Voltage	350 VRMS	
Power at Sea Level, at 20 °C	20 W (at 3 GHz)	50 W (at 1.8 GHz)

MECHANICAL CHARACTERISTICS

Durability	> 20	- Lock: 100 - Snap-on: 3000 - Slide-on: 10,000
Weight (g)	0.02	- Receptacle: 0.03 - Plug: 0.08
Axial Misalignment from Nominal Board to Board Distance in mm (inch)	±0.2 (.008)	N/A
Radial Misalignment in mm (inch)	-	N/A
Force to Engage	-	5N
Cable Retention Force	-	20N - 100N
Sine Vibrations	-	IEC 68-2-6
Random Vibrations	-	IEC 68-2-36
Shocks	-	IEC 68-2-29
Retention on Test Board	-	20N min

ENVIRONMENTAL CHARACTERISTICS

Temperature Range	-40 / +90 °C

MATERIALS

Body/Outer Contact	Beryllium Copper	-Plug: Brass -Receptacle: Berylium copper
Center Contact		Brass (plug only)
Insulator	Polyethercetone	PTFE

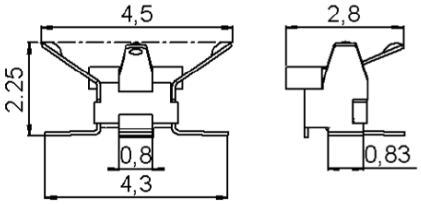
PLATING

Body	Gold
Center Contact	

IMP

BOARD-TO-BOARD CONNECTORS

SMT CONNECTORS

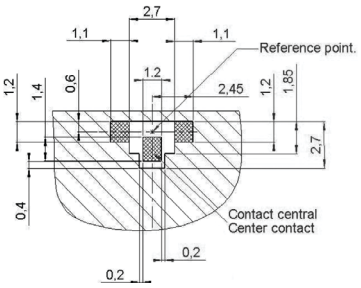


PART NUMBER	HEIGHT (MM)	PACKAGING	REEL DIMENSIONS A (MM)	ASSEMBLY INSTRUCTIONS
R107 064 080	2	Reel of 3500	330	M01
R107 064 070		Reel of 100	180	

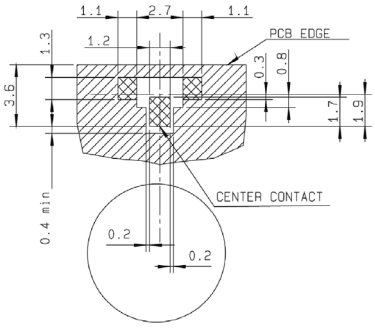
ASSEMBLY INSTRUCTIONS

M01

SOLDERING PATTERN



PART NUMBER
R107 064 080

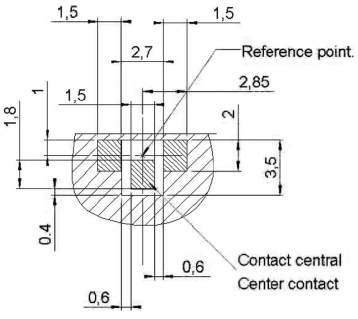


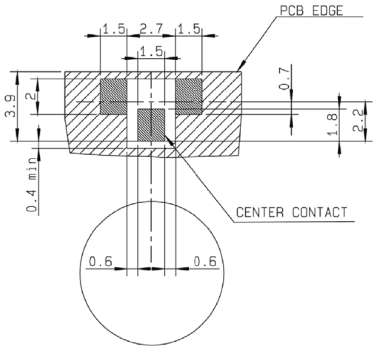
PART NUMBER
R107 064 070
R107 064 080

Metallization

Land for solder paste (area free of vamish)

CONTACT PATTERN





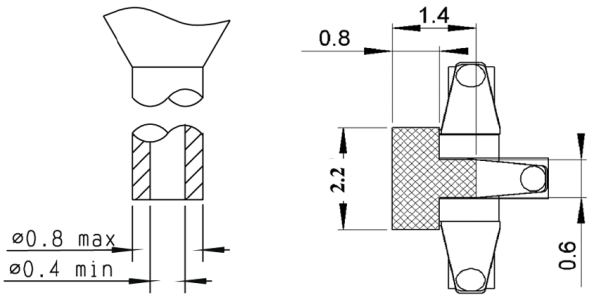
Metallization

Contact area (area free of any surface contaminant)

IMP

RECEPTACLE PACKAGING

PROCEDURE FOR USE OF SMT NOZZLE FOR RECEPTACLE



IMP H2

The following pick and place equipment and associated nozzles were successfully tested for the IMP:

A) FUJI: QP-242/MODULE TYPE
QP-242 IMP MOUNT MODULE NAME: TYPE BI-612
IMP NOZZLE PART N°: I-S12B-013-100 (NOZZLE PIE 1.3)

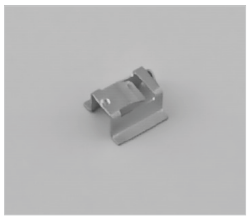
B) PANASONIC: MSF type machine
NOZZLE PART N°: 10 807 GH 810

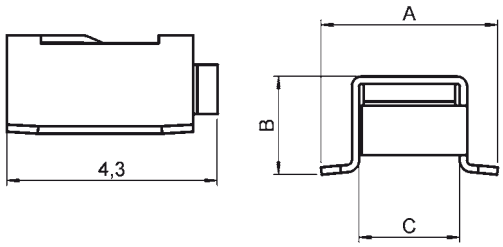
For other equipment, please contact your supplier to define equivalent nozzles.

UMP

RECEPTACLES, PIGTAILS AND CABLE ASSEMBLIES

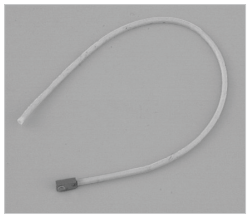
SMT RECEPTACLES





UMP TYPE	PART NUMBER	DIMENSIONS (MM)			FINISH	PACKAGING	REEL DIMENSIONS (MM)	ASSEMBLY INSTRUCTIONS
		A	B	C				
H2	R107 003 010	3.6	2	2.05	Gold	100 Pieces	180	M02
H3	R107 303 040	5.5	3	2.95				

PIGTAILS



Lock

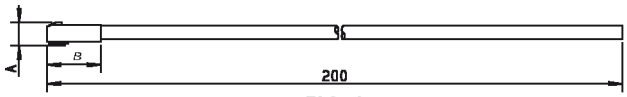


FIG. 1

Snap-on

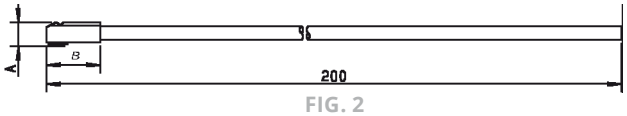


FIG. 2

CABLE	CABLE GROUP	UMP TYPE	MATING TYPE	PART NUMBER	FIG.	DIMENSIONS (MM)		PACKAGING
						A	B	
C291 050 066	1/50/S	H2	Lock	R285 020 202	1	1.74	4	100 Pieces
			Snap-on	R285 020 212	2	1.65		
C291 170 017	2.6/50/S	H3	Lock	R285 020 401	1	2.84		

BETWEEN SERIES CABLE ASSEMBLIES

Lock

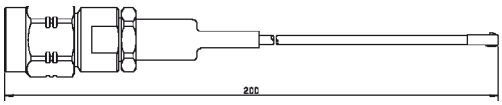


FIG. 1

Snap-on

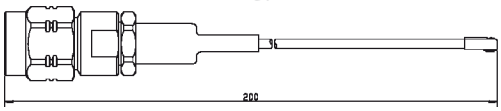


FIG. 2

CABLE	CABLE GROUP	UMP TYPE	MATING TYPE	PART NUMBER	FIG.	SERIES	PACKAGING
C291 050 066	1/50/S	H2	Lock	R285 025 202	1	UMP/SMA	20 Pieces
			Snap-on	R285 025 212	2		
C291 170 017	2.6/50/S	H3	Lock	R285 025 401	1		

UMP

TOOLS AND ACCESSORIES

PRODUCTION LINE TEST ADAPTER: UMP - SMA FEMALE (TO BE USED WITH LOCK AND SNAP PIGTAILS ONLY)

PART NUMBER	CONNECTOR HEIGHT (MM)	PACKAGING
R107 009 901	H 2	Unit
R107 009 903	H 3	

For measurement and test purposes. Packaging: Unit

EXTRACTION TOOL (FOR LOCK VERSION ONLY)

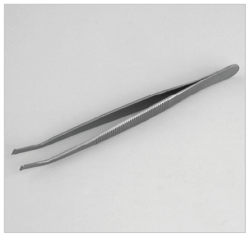
PHOTO 1

PHOTO 2

PART NUMBER	PHOTO	NOTE	TO DISCONNECT	PACKAGING
R282 867 020	1	Axial Disconnection	H 2	10 Pieces
R282 867 030	2	Lateral Disconnection	H 3	

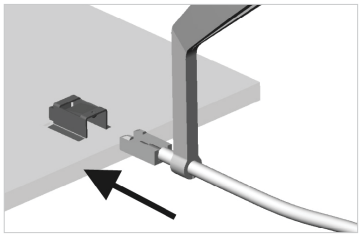
The 2 disconnection tools allows axial and lateral disconnections depending on the occupied space on the PCB.

INSERTION TOOL (OPTIONAL)



PART NUMBER
R282 203 020

This optional tool allows you a more precise connection in a limited space.



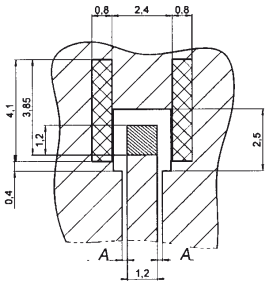
PACKAGING: UNIT

UMP

ASSEMBLY INSTRUCTIONS

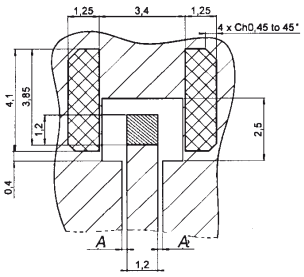
M02

RECEPTACLE SOLDERING PATTERNS FOR COPLANAR LINE



H2 Type Receptacle

PART NUMBER
R107 003 010



H3 Type Receptacle

PART NUMBER
R107 303 040

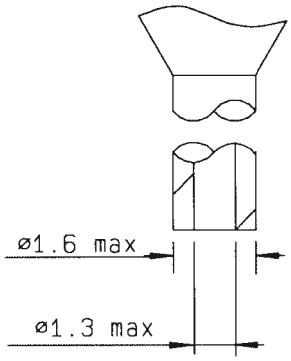
PCB THICKNESS (MM)	COPLANAR LIGNE A (MM)
0.8	0.183
1.0	0.190
1.2	0.195
1.6	0.20

Gold over Nickel prefered for solder paste
Gold can be replaced by tin lead (see test report SC2000.02.6587)

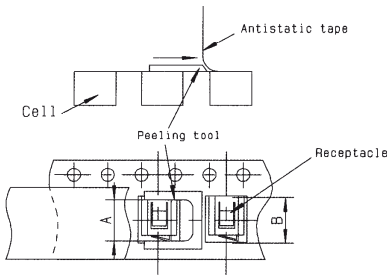
Gold over Nickel contact area free of any surface contaminant

Ground + varnish

SMT NOZZLE

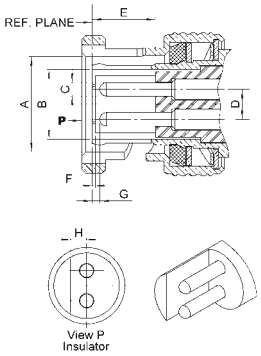


Automated pick and place machines use standard tooling to peel the antistatic film off. Sometimes the "A" dimension of this tool is shorter than the overall "B" width between the two legs of the receptacle. There is therefore a risk for the two legs being deformed while they pass through the tool during the suction operation. The user must then widen the "A" dimension of the peeling tool.

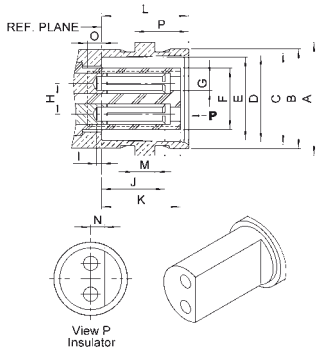


BR2

INTERFACE



PLUG



JACK

LETTER	MM		INCH	
	MIN	MAX	MIN	MAX
A DIA	9.78	9.91	.385	.390
B DIA	6.70	6.77	.264	.267
C DIA	1.31	1.36	.052	.054
D	2.95	3.05	.116	.120
E	7.6	7.9	.299	.311
F	-0.05	0.15	.002	.006
G	0.85	1.55	.033	.061
H	1.55	1.65	.061	.065

LETTER	MM		INCH	
	MIN	MAX	MIN	MAX
A DIA	10.93	11.09	.430	.437
B DIA	9.60	9.70	.378	.382
C DIA	8.79	9.04	.346	.356
D DIA	8.31	8.46	.327	.333
E DIA	8.09	8.15	.319	.321
F DIA	5.9	6.0	.232	.236
G DIA	1.4	1.45	.055	.057
H	2.95	3.05	.116	.120
I	-0.1	0.8	-.004	.031
J	5.3	5.7	.209	.224
K	7.05	7.35	.278	.289
L	8.36	8.46	.327	.335
M	1.91	2.06	.075	.081
N	1.45	1.55	.057	.061
O	0.35	0.85	.014	.033

CHARACTERISTICS

Bayonnet lock coupling with polarization

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

Dielectric Withstanding Voltage	Between pins Between pins and body	1.500 volts RMS, 50 Hz
Maximum Intensity	3.5 Amp	
Insulation Resistance	Between pins Between pins and body	> 10^5 MΩ
Contact Resistance	< 1 mΩ at 1 Amp	
Capacity at 1 MHz	Between pins Between pins and body	< 1.3 pF < 3.2 pF
Frequency Range	DC - 0.5 GHz	
Temperature Range	-40 +100 °C	

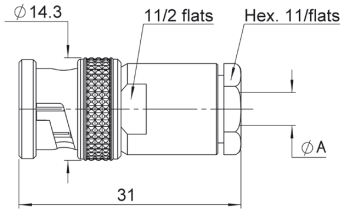
MATERIALS

All Metal Parts Under Stress	Beryllium Copper
Other Metal Parts	Brass
Insulators	Polyamide and Diallyphtalate
Gaskets	Neoprene

BR2

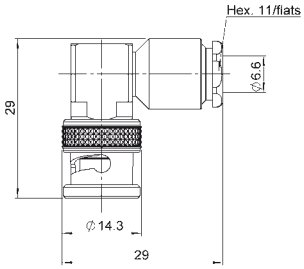
PLUGS AND JACKS

STRAIGHT PLUGS FOR ARMOUR TWINAXIAL CABLE



CABLE GROUP DIA.	PART NUMBER	DIMENSIONS (MM) A
Twinaxial 4	R605 004 000	4.6
Twinaxial 5	R605 005 000	5.6
Twinaxial 6	R605 006 000	6.6

RIGHT ANGLE PLUG



CABLE GROUP DIA.	PART NUMBER
Twinaxial 6	R605 156 000

STRAIGHT JACKS

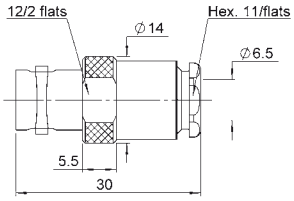


FIG. 1

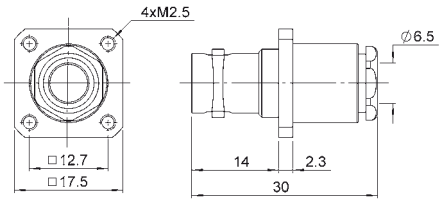


FIG. 2

CABLE GROUP DIA.	PART NUMBER	FIG.	PANEL DRILLING	NOTE
Twinaxial 6	R605 206 000	1	P01	-
	R605 256 000	2		Square Flange

BR2

RECEPTACLES AND CAPS

RECEPTACLES

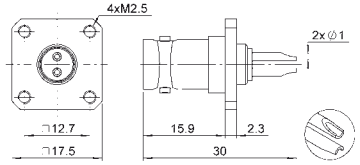


FIG. 1

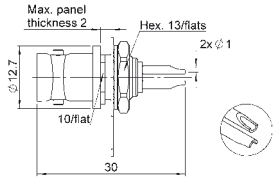


FIG. 2

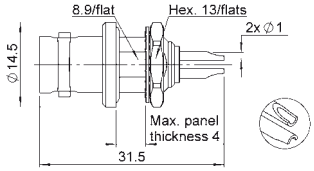
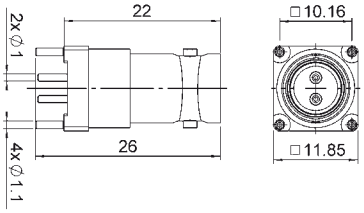


FIG. 3

PART NUMBER	FIG.	PANEL DRILLING	NOTE
R605 400 000	1	P02	Square Flange
R605 550 000	2	P04	Rear Fixing
R605 550 020			Front Mounting
R605 600 000	3	P05	Waterproof

PCB RECEPTACLES



PART NUMBER	PANEL DRILLING
R605 440 000	P03

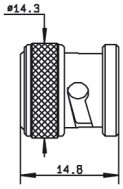


FIG. 1

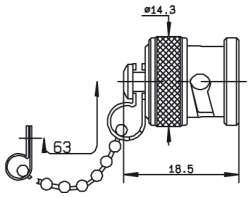


FIG. 2

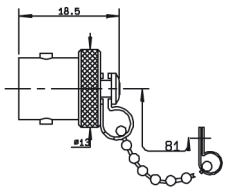
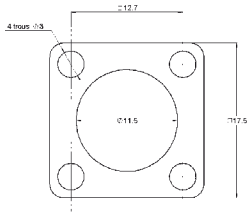


FIG. 3

PART NUMBER	FIG.	NOTE
R141 802 000	1	Male
R141 812 000	2	Male with Chain
R141 842 000	3	Female with Chain

BR2

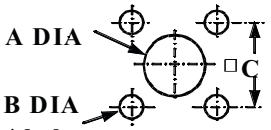
GASKET



PART NUMBER
R280 503 000

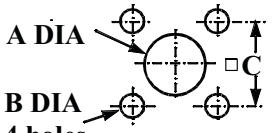
PANEL DRILLING

P01



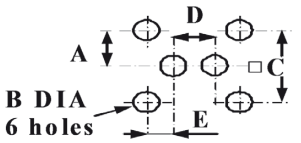
	mm	
	Maxi	mini
A (R. Mount)	11.3	11.2
A (F. Mount)	13	12.9
B	2.7	2.6
C	12.75	12.65

P02



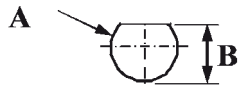
	mm	
	Maxi	mini
A	11.3	11.2
B	2.7	2.6
C	12.75	12.65

P03



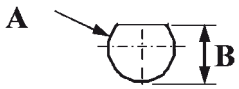
	mm	
	Maxi	mini
A	5.18	4.98
B	1.3	1.2
C	10.26	10.06
D	3.1	2.9
E	3.68	3.48

P04



	mm	
	Maxi	mini
A	10.2	10.1
B	11.1	11

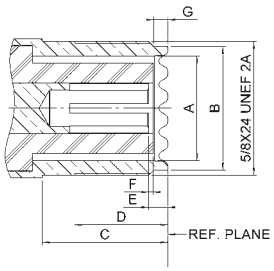
P05



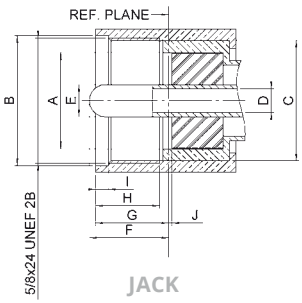
	mm	
	Maxi	mini
A	9.6	9.5
B	9.1	9

UHF

INTERFACE



PLUG



JACK

LETTER	MM		INCH	
	MIN	MAX	MIN	MAX
A DIA	11.56	12.22	.455	.481
B DIA	16.00	-	.630	-
C DIA	13.92	-	.548	-
D DIA	-	3.35	-	.132
E DIA	3.912	4.013	.154	.158
F	-	11.10	-	.437
G	-	9.91	-	.390
H	8.76	-	.335	-
I	1.19	4.27	.047	.168
J	0.00	-	.000	-

LETTER	MM		INCH	
	MIN	MAX	MIN	MAX
A DIA	11.56	12.22	.455	.481
B DIA	14.00	14.25	.551	.561
C	11.10	-	.437	-
D	7.87	-	.310	-
E	1.02	-	.040	-
F	0.03	-	.001	-
G	1.19	1.96	.047	.077

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS

ELECTRICAL CHARACTERISTICS

Impedance	50Ω
Maximum Frequency Range	500 MHz
Test Voltage (At Sea Level)	2000 V rms - 50 Hz
Working Voltage (At Sea Level)	750 V
Insulation Resistance (Under 500 V)	≤ 5 GΩ
Contact Resistance **• Center Contact** **• Outer Contact**	 5 mΩ max 5 mΩ max

MECHANICAL CHARACTERISTICS

Mating Cycles	500

ENVIRONMENTAL CHARACTERISTICS

Temperature Range **• PTFE** **• Bakelite** **• Styramic**	 -55°C to + 155°C -40°C to + 165°C -40°C to + 70°C
Salt Spray	48 Hrs

MATERIALS

Contacts and Interfaces	Heat Treated Beryllium Copper
Other Parts	Brass
Insulator	PTFE (T) - Bakelite (B) or Styramic (St.)
Gaskets	Neoprene or Silicone Rubber

All dimensions are given in mm.

UHF

PLUGS, RECEPTACLES AND ADAPTER

STRAIGHT PLUGS

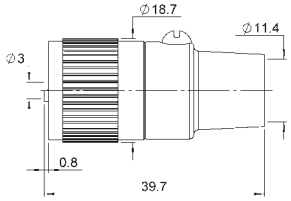


FIG. 1

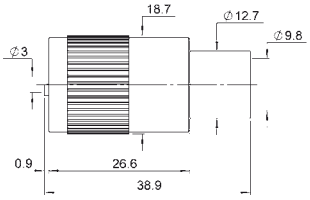


FIG. 2

CABLE GROUP	CABLE GROUP DIA.	PART NUMBER	FIG.	NOTE
RG213 / RG393 / RG11 / RG12 / RG144	10/50+75Ω	R155 003 000	1	Insulator: PTFE
		R155 005 000	2	

RECEPTACLES

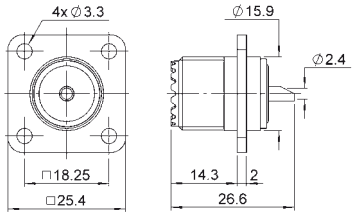


FIG. 1

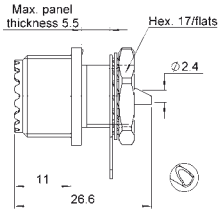


FIG. 2

PART NUMBER	FIG.	PANEL DRILLING	NOTE
R155 405 000	1	P01	Square Flange - Solder Pot - Insulator: PTFE
R155 560 000	2	P02	Bulkhead - Solder Pot - Insulator: PTFE