

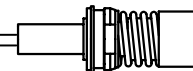
SUBMINIATURE COAXIAL CONNECTORS
for blind-mate applications

Commercial BMA series



ISO 9001 APPROVED





These new models have been especially designed for **BLIND-MATE APPLICATIONS** (back-planes and links between mother-card and daughter-cards) in the telecom and datacom industries **up to 22 GHz**.

The new **commercial BMA series** connectors are fully compatible with **MIL standard BMA series**.

All piece parts have been optimized to combine the lowest cost possible in a high performance design.

The cable connectors are crimp type on double or single braid flexible cables and solder type on semi-rigid cables. They are manufactured in brass with BBR finish (non-magnetic Bronze alloy). The PCB receptacles are made of brass with gold finish.

ELECTRICAL CHARACTERISTICS

Impedance		50 Ω
Operating frequency		DC to 22 GHz for S.R. cable DC to 12.4 GHz for others
Typical V.S.W.R.	$\varnothing 2.6 / \varnothing 5 + .141"$.085" receptacles	1.15 + 0.02 F (F in GHz) 1.07 + 0.01 F (F in GHz) 1.25 max. at 10 GHz
RF insertion loss	(dB) cable connectors receptacles	0.03 $\sqrt{F}$ (F in GHz) 0.07 $\sqrt{F}$ (F in GHz)
Testing voltage	(V RMS)	1000
Working voltage	(V RMS)	350
Insulation resistance	(M Ω)	5000

ENVIRONMENTAL CHARACTERISTICS

Temperature range	- 65 °C, + 125 °C
-------------------	-------------------

MECHANICAL CHARACTERISTICS

Life		500 matings
Cable retention force	.085" .141" $\varnothing 2.6$ D $\varnothing 5$ D	136 N 272 N 110 N 180 N
Total misalignment		+/- 0.475 floating

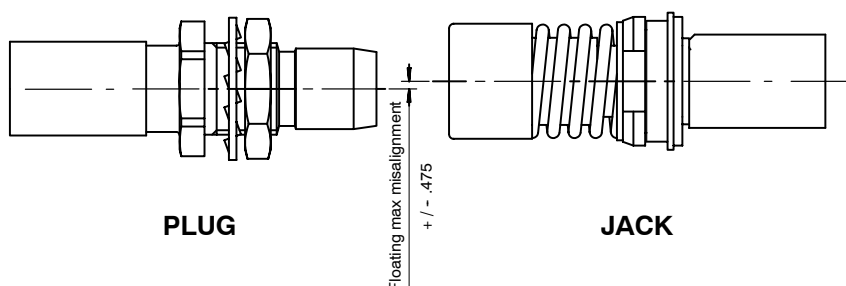
MATERIALS

Bodies	Brass
Center contacts	Bronze
Insulator	PTFE
Spring	Stainless steel

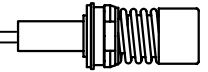
PLATING

Bodies	plugs, jacks PCB receptacles	BBR (<i>non magnetic plating</i>) Gold
Center contacts		Gold

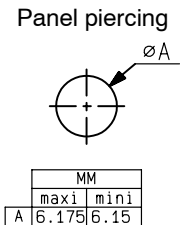
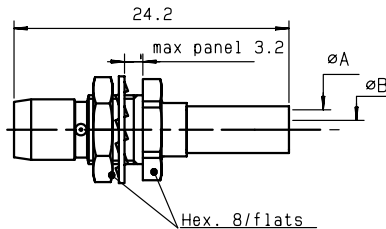
Standard packaging : 100 pieces. For unit packaging, add W after the part number.



All dimensions are given in mm.

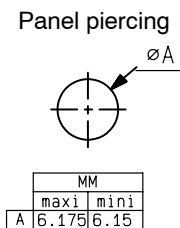
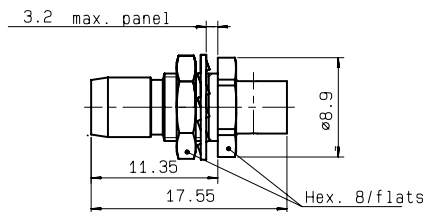


STRAIGHT FIXED BULKHEAD MOUNT PLUGS, CRIMP TYPE FOR FLEXIBLE CABLES



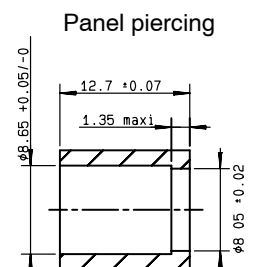
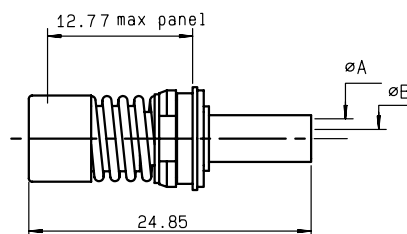
Cable type	Part number	Center contact	Dimensions	
			A	B
$\varnothing 2.6$ / 50 / S	R128 083 827	captive	3.25	1.63
$\varnothing 2.6$ / 50 / D	R128 084 827		3.5	1.63
$\varnothing 5$ / 50 / D	R128 088 827		5.55	3.2

STRAIGHT FIXED BULKHEAD MOUNT PLUGS, SOLDER TYPE FOR SEMI-RIGID CABLES

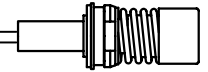


Cable type	Part number	Center contact
.085"	R128 052 827	captive
.141"	R128 055 827	

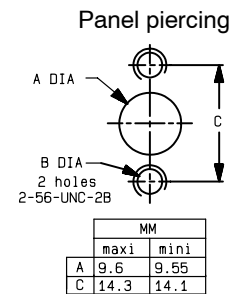
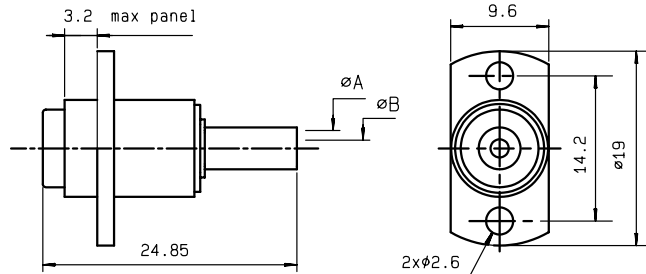
STRAIGHT FLOATING SNAP-IN MOUNT JACKS, CRIMP TYPE FOR FLEXIBLE CABLES



Cable type	Part number	Center contact	Dimensions	
			A	B
$\varnothing 2.6$ / 50 / S	R128 233 827	captive	3.25	1.63
$\varnothing 2.6$ / 50 / D	R128 234 827		3.5	1.63
$\varnothing 5$ / 50 / D	R128 238 827		5.55	3.2

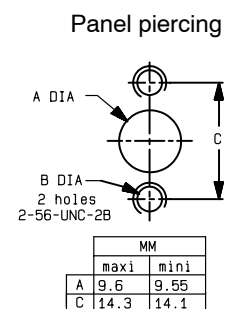
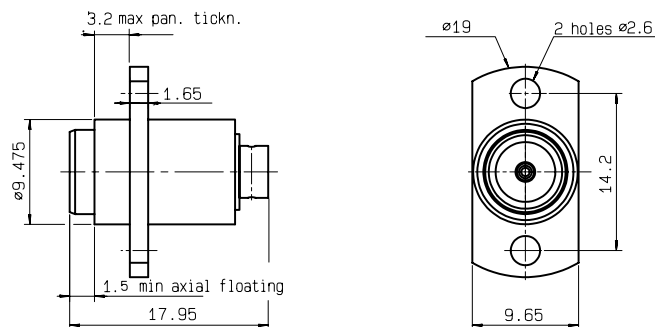


STRAIGHT FLOATING FLANGE MOUNT JACKS, CRIMP TYPE FOR FLEXIBLE CABLES



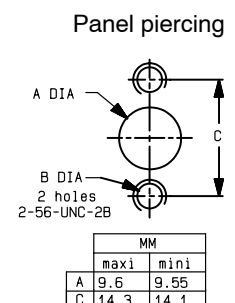
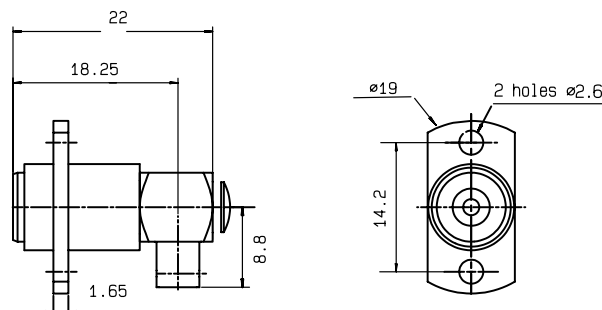
Cable type	Part number	Center contact	Dimensions	
			A	B
Ø2.6 / 50 / S	R128 263 827	captive	3.25	1.63
Ø2.6 / 50 / D	R128 264 827		3.5	1.63
Ø5 / 50 / D	R128 268 827		5.55	3.2

STRAIGHT FLOATING FLANGE MOUNT JACKS, SOLDER TYPE FOR SEMI-RIGID CABLES

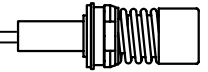


Cable type	Part number	Center contact
.085"	R128 292 827	captive
.141"	R128 295 827	

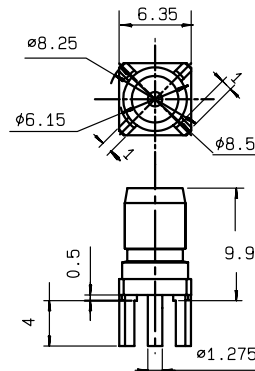
RIGHT ANGLE FLOATING FLANGE MOUNT JACKS, SOLDER TYPE FOR SEMI-RIGID CABLES



Cable type	Part number	Center contact
.085"	R128 360 827	captive
.141"	R128 359 827	

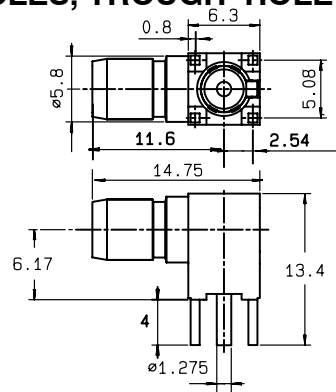


STRAIGHT PCB MALE RECEPTACLES, TROUGH-HOLE SOLDER TYPE



Part number	Packaging
R128 425 820	100 pieces
R128 425 840●	plastic stick of 60 pieces

RIGHT ANGLE PCB MALE RECEPTACLES, TROUGH-HOLE SOLDER TYPE



Part number	Packaging
R128 665 820	100 pieces
R128 665 830●	plastic stick of 60 pieces

PCB RECEPTACLES, SURFACE MOUNT TYPE

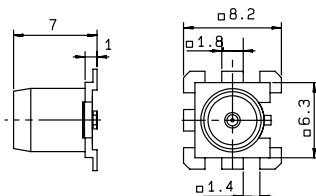


Fig. 1

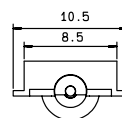
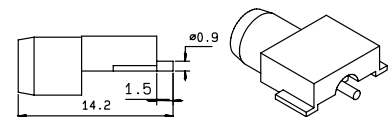


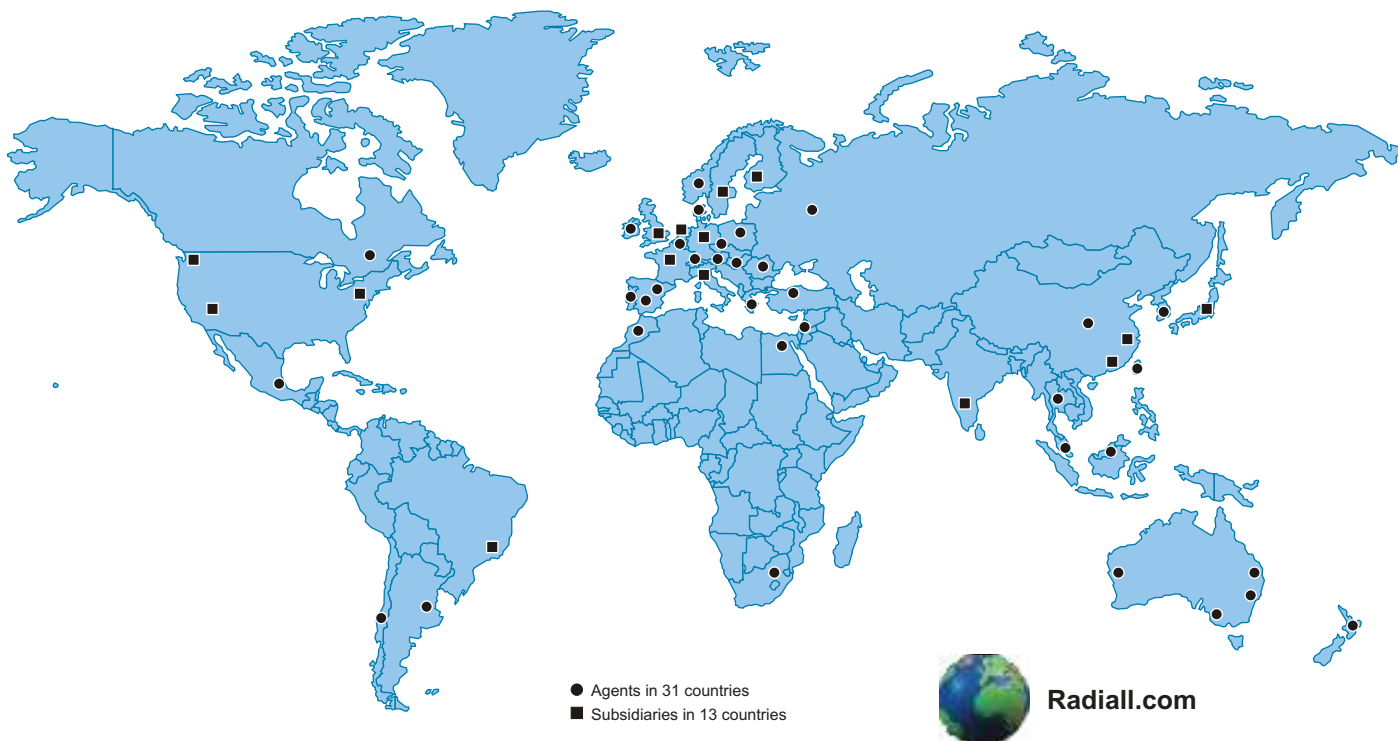
Fig. 2



	Part number	Fig.	Packaging
SMT ON BOARD STRAIGHT MALE	R128 424 830●	1	reel of 100 pieces
SMT ON BOARD RIGHT ANGLE MALE	R128 664 830●	Not shown	reel of 100 pieces
SMT EDGE CARD MALE	R128 403 850●	2	reel of 100 pieces

EXTRACTION TOOL for snap-in models R282 918 000
CRIMPING TOOL WITH FIXED DIES : R282 286 000

● Upon request



RADIALL WORLDWIDE LOCATIONS

EUROPE

France - RADIALL HEADQUARTERS

101, Rue Ph. Hoffmann - 93116 ROSNY sous BOIS (Paris)
Tel. : +33 1 49 35 35 35 Fax : +33 1 48 54 63 63
E-Mail : info@radiall.com

Finland - RADIALL FIN

Pilot Business Park - Lentokatu 2 - FIN-00460 OULUNSAALO
Tel. : +358 852 70 130 Fax : +358 852 70 105
E-Mail : info@radiall.fi

Germany - RADIALL G.m.b.H.

CarlZeiss Str. 10 Postfach 200143 - D63307 RÖDERMARK (Frankfurt)
Tel. : +49 60 74 91 07 0 Fax : +49 60 74 91 07 70
E-Mail : info@radiall.de
Regional offices : Munich

Italy - RADIALL Elettronica S.R.L.

Via Concordia, 5 - I20090 ASSAGO MILANO
Tel. : +39 02 48 85 121 Fax : +39 02 48 84 30 18
E-Mail : radiall@tin.it
Regional office : Roma

Netherlands - RADIALL B.V.

Postbus 64 - 3870 CB HOEVELAKEN
Tel. : +31 33 253 40 09 Fax : +31 33 253 45 12
E-Mail : info@radiall.nl

Sweden - RADIALL A.B.

Sjöängsvägen 2 - SE-192 72 SOLLENTUNA (Stockholm)
Tel. : +46 844 434 10 Fax : +46 875 449 16
E-Mail : info@radiall.se

U.K. - RADIALL Ltd

10, Perivale Industrial Park, Horsenden Lane south
PERIVALE Middlesex UB6 7RL (London)
Tel. : +44 208 991 7700 Fax : +44 208 991 7769
E-Mail : info@radiall.co.uk

AMERICA

USA - RADIALL, INC.

RF Coaxial connectors, Microwave devices & Fiber optic connectors
300 Long Beach Blvd - STRATFORD Connecticut 06615
Tel. : +1 203 380 9800 Fax : +1 888 387 0001
E-Mail : sales@radiallusa.com

USA - RADIALL LARSEN Antenna Technologies, INC

Antennas
3611 NE 112th Avenue - VANCOUVER, Washington 98682
Tel. : +1 360 944 7551 Fax : +1 360 944 7556
E-Mail : info@radialllarsen.com

USA - RADIALL JERRIK, INC.

Mil/Aerospace Markets
102 West Julie Drive - TEMPE, Arizona 85283 (Phoenix)
Tel. : +1 480 730 5700 Fax : +1 480 730 5800
E-Mail : sales@radialljerrick.com

Brasil - RADIALL do Brasil

Largo do Machado, 54 sala 706 - Catete
22221-020 RIO DE JANEIRO
Tel. : +55 21 2558 05 76 Fax : +55 21 2245 97 63
E-Mail : hubertm@radiall.com.br

ASIA

China - SHANGHAI RADIALL Electronic Co., Ltd

N° 390 Yong He Road 200072 - SHANGHAI
Tel. : +86 21 66 52 37 88 Fax : +86 21 66 52 11 77
E-Mail : radialls@online.sh.cn

Japan - NIHON RADIALL KK

1-3-10, Higashi nihonbashi, Chuokku, TOKYO 103-0004
Tel. : +81 3 3866 23 90 Fax : +81 3 3866 23 91
E-Mail : emiko@radiall.co.jp

HongKong - RADIALL Electronics Ltd

Elite Industrial Centre, Room 212, 2/F
N° 883 Cheung Sha Wan Road - KOWLOON HONG KONG
Tel. : +852 29 59 38 33 Fax : +852 29 59 26 36
E-Mail : info@radiall.com.hk

India - RADIALL PROTECTRON

25 D, II Phase, Peenya Industrial Area - BANGALORE 560058
Tel. : +91 80 83 95 271 Fax : +91 80 83 97 228
E-Mail : radiall@vsnl.com

REPRESENTED IN

Africa	Israël	South Africa
Australia	Middle East	South Korea
Belgium	Poland	Switzerland
Greece	Spain	Turkey

For the above countries, please contact the local agent or RADIALL HEADQUARTERS at export@radiall.fr

March 2000 Edition

D1 128 CE



Printed in France ®

, Registered Trade Mark

This information is intended as a guide only. To ensure a continuing policy of product improvement, Radiall reserves the right to modify its specifications without prior notification.