

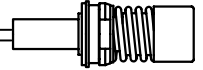
SUBMINIATURE COAXIAL CONNECTORS
for blind-mate applications

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
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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

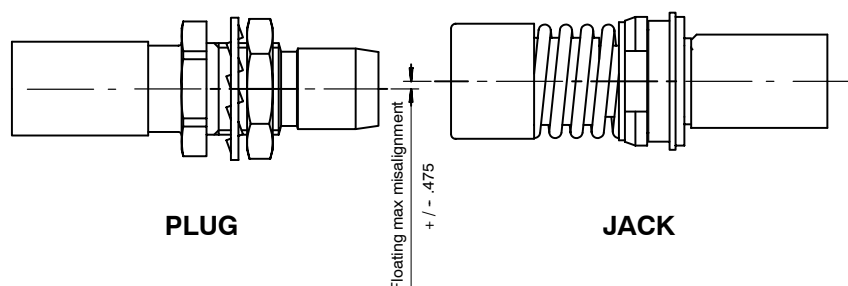
MATERIALS

Bodies	Brass
Center contacts	Bronze
Insulator	PTFE
Spring	Stainless steel

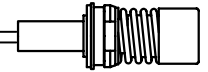
PLATING

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

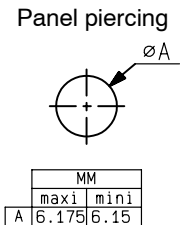
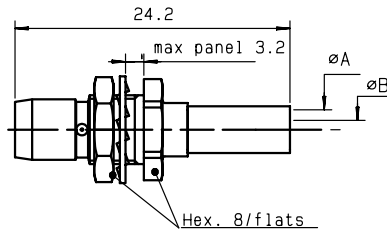
Standard packaging : 100 pieces. For unit packaging, add W after the part number.



All dimensions are given in mm.

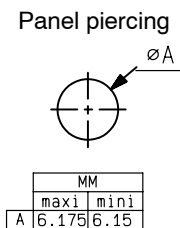
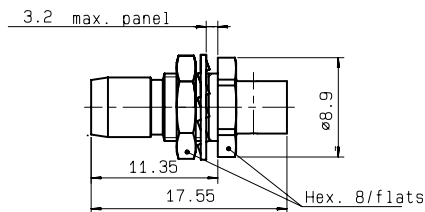


STRAIGHT FIXED BULKHEAD MOUNT PLUGS, CRIMP TYPE FOR FLEXIBLE CABLES



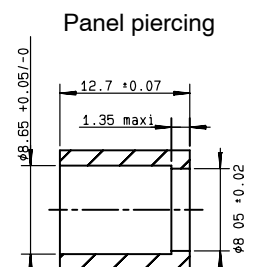
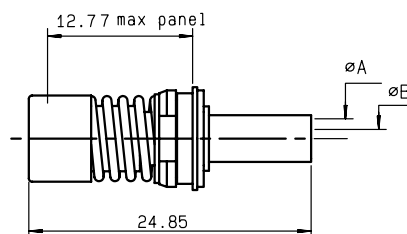
Cable type	Part number	Center contact	Dimensions	
			A	B
$\varnothing 2.6$ / 50 / S	R128 083 827	captive	3.25	1.63
$\varnothing 2.6$ / 50 / D	R128 084 827		3.5	1.63
$\varnothing 5$ / 50 / D	R128 088 827		5.55	3.2

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

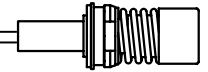


Cable type	Part number	Center contact
.085"	R128 052 827	captive
.141"	R128 055 827	

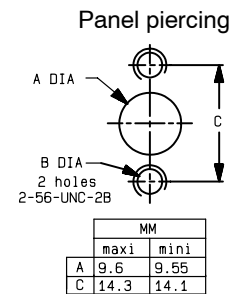
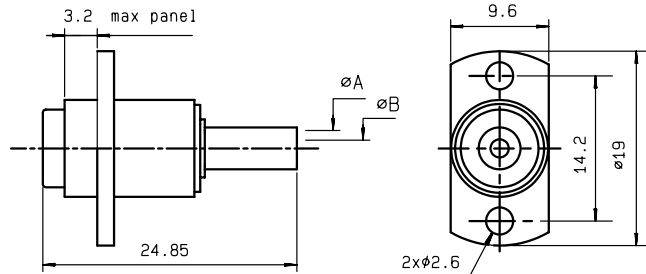
STRAIGHT FLOATING SNAP-IN MOUNT JACKS, CRIMP TYPE FOR FLEXIBLE CABLES



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

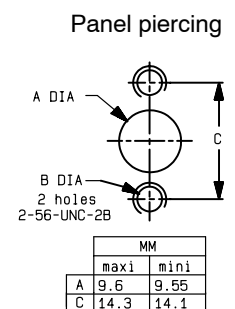
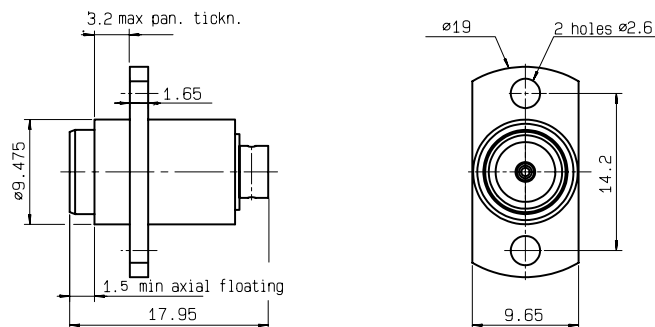


STRAIGHT FLOATING FLANGE MOUNT JACKS, CRIMP TYPE FOR FLEXIBLE CABLES



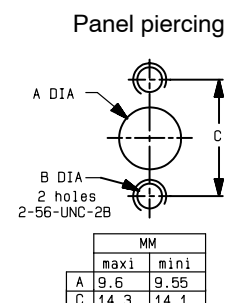
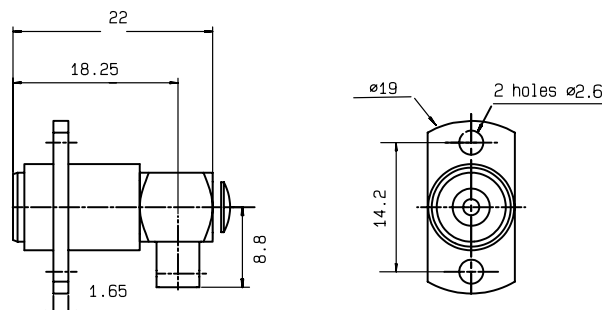
Cable type	Part number	Center contact	Dimensions	
			A	B
Ø2.6 / 50 / S	R128 263 827	captive	3.25	1.63
Ø2.6 / 50 / D	R128 264 827		3.5	1.63
Ø5 / 50 / D	R128 268 827		5.55	3.2

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

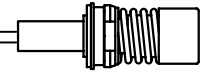


Cable type	Part number	Center contact
.085"	R128 292 827	captive
.141"	R128 295 827	

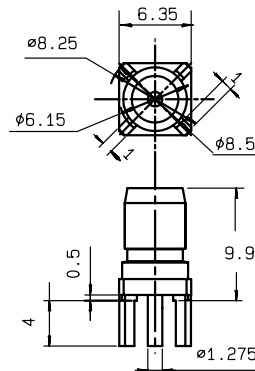
RIGHT ANGLE FLOATING FLANGE MOUNT JACKS, SOLDER TYPE FOR SEMI-RIGID CABLES



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

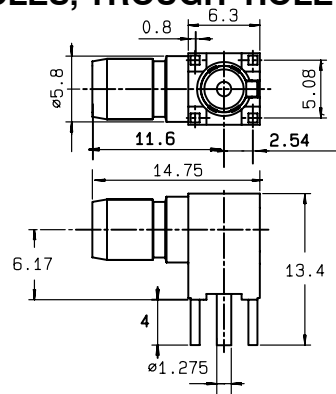


STRAIGHT PCB MALE RECEPTACLES, TROUGH-HOLE SOLDER TYPE



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

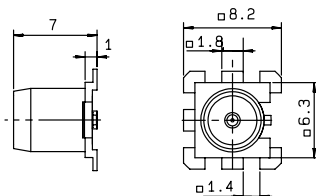


Fig. 1

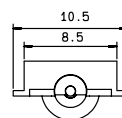
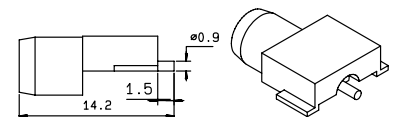


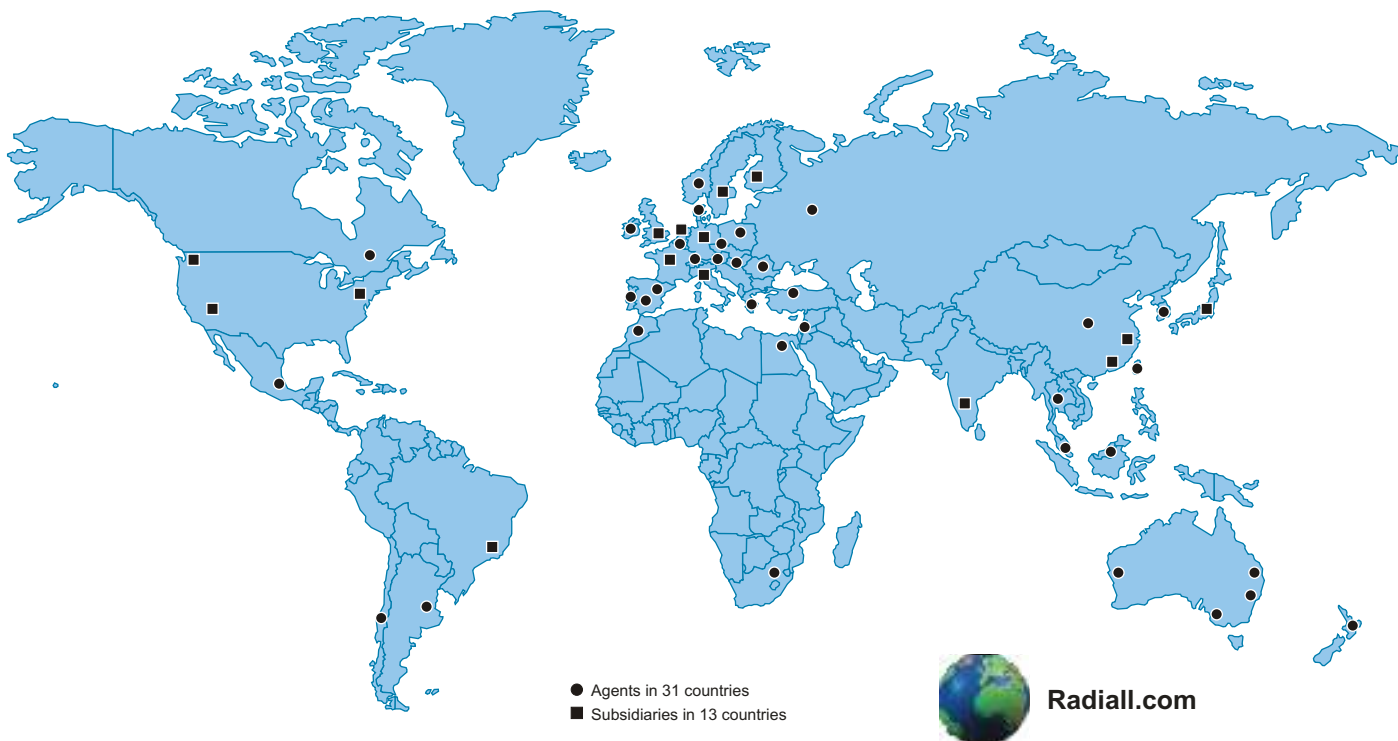
Fig. 2



	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



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