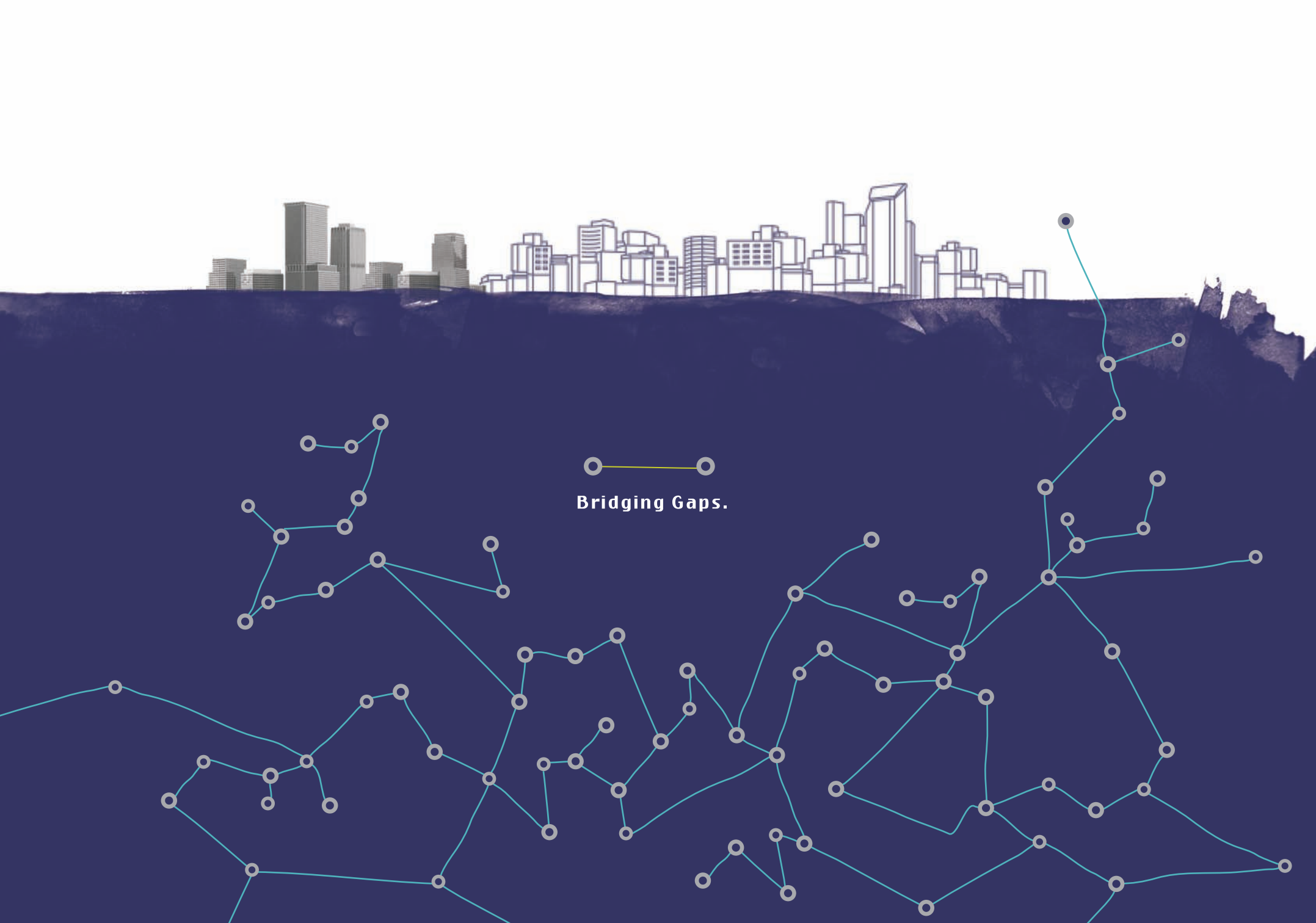
Frontlynk®

FAKRA, BMA, MMCX, MCX, SMB, 1.0/2.3

RF / Microwave Coaxial Connectors & Cable Assembly


Bridging Gaps.

FRONTLYNK. BRIDGING GAPS.

Over the last few decades, the world has become considerably smaller.
The development of communications and travel has meant that no part of the world is ever too far or too remote to be reached by modern day man.

However, no matter how big the gap between two points of communication is, no matter how complicated the route, it all starts with a simple connection.

Frontlynk is all about connections, and 'Bridging Gaps' is our business.
We connect products to each other via our versatile range of connectors.
We connect to people with our reliable and flexible approach to business.

In our own small way,
Frontlynk is the indispensable little link in the communication chain,
virtually unnoticed, but critically important.

FRONTLYNK. BRIDGING GAPS.

Bridging To Our Team.

The Frontlynk team has been in this business long enough to realize that
when it comes to being unique, a product such as a connector is simply not enough.

Undeniably, the quality and range of our products are an important element of our proposition. However, what makes our customers come back to Frontlynk again and again lies in our company culture.

We are certainly not the biggest supplier in the world, neither are we the most famous.
This is what makes our strength; We are the young and energetic team from Taiwan that is ready to try that little be harder, ready to be that little bit more flexible to match our clients' needs, just to remain on the map and make ourselves heard in this crowded market.

With a **'can-do'** attitude,

Frontlynk management and staff alike treat each business opportunity with the type of open mind and flexibility that ever increasing customized requirements deserve. Furthermore, we realize that repeat business can only be achieved by getting it right every time, in an atmosphere of trust and honesty.

FRONTLYNK CONNECTS TO ITS PEOPLE.

BRIDGING TO OUR CONNECTORS.

OUR PRODUCTS AND DESIGN ABILITIES

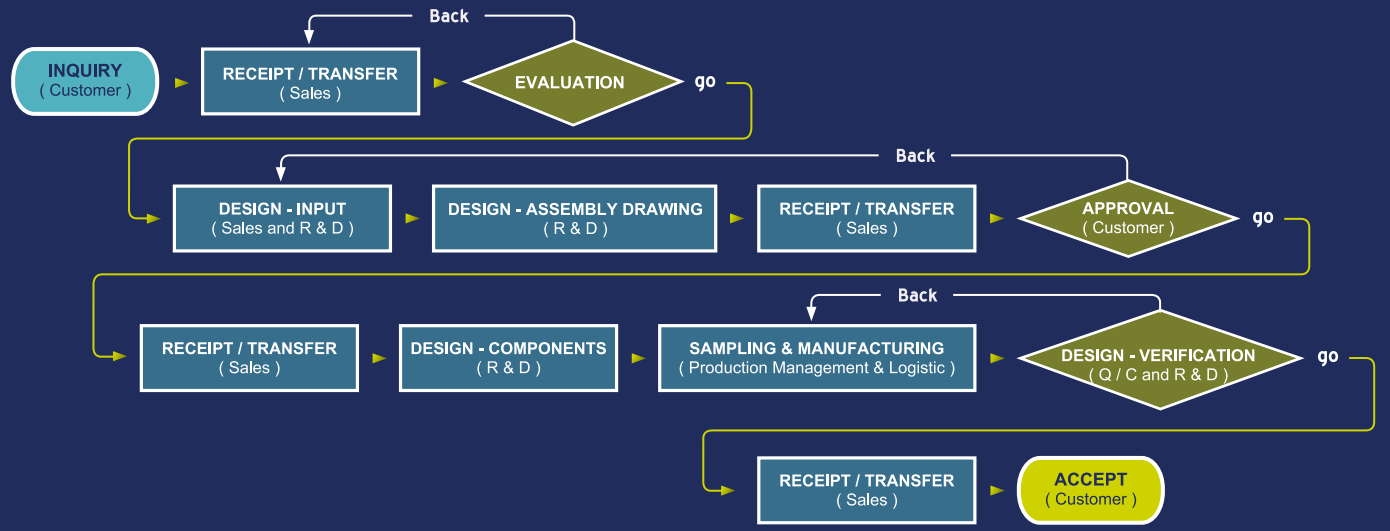
Bridging To Our Connectors.

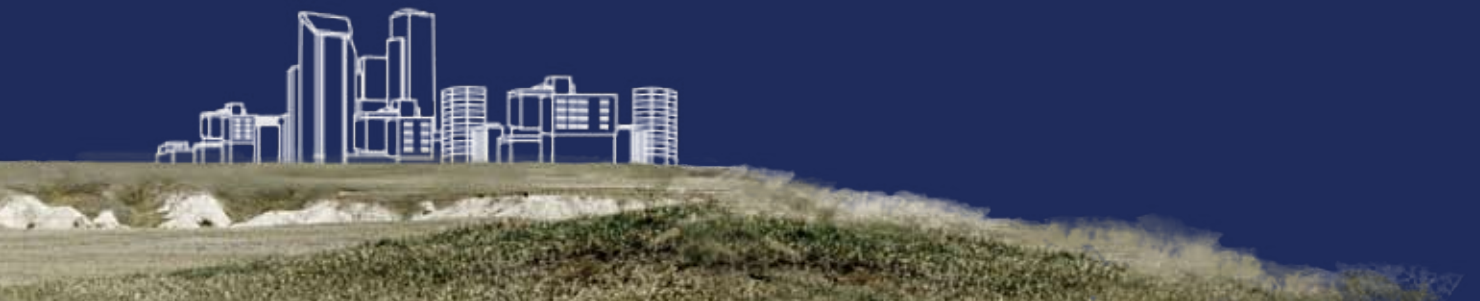
RF / Microwave Coaxial Connectors & Cable Assembly

Frontlynk is the brand behind production of quality RF Connectors and cable assembly items. The range of Frontlynk's products underline a versatile market demand across many geographical markets.

As a manufacturer, Frontlynk naturally places a lot of emphasis on the supply and delivery of its connectors. The production process leaves nothing to chance and is the result of extensive research involving the critical factors: Operating Frequency, Characteristic Impedance, Skin Effect, Cutoff Frequency, Intermodulation, Voltage and Power Rating, Leakage, etc.

DESIGN PROCESS:





BRIDGING TO OUR CONNECTORS.

Once the stringent technical requirements of our clients have been met in the research lab, it is down to Frontlynk's high performing facilities and machines to transform design into physical products. In the production area, PowerStrip 9500RS stripping machines from Switzerland transform our know-how into products.

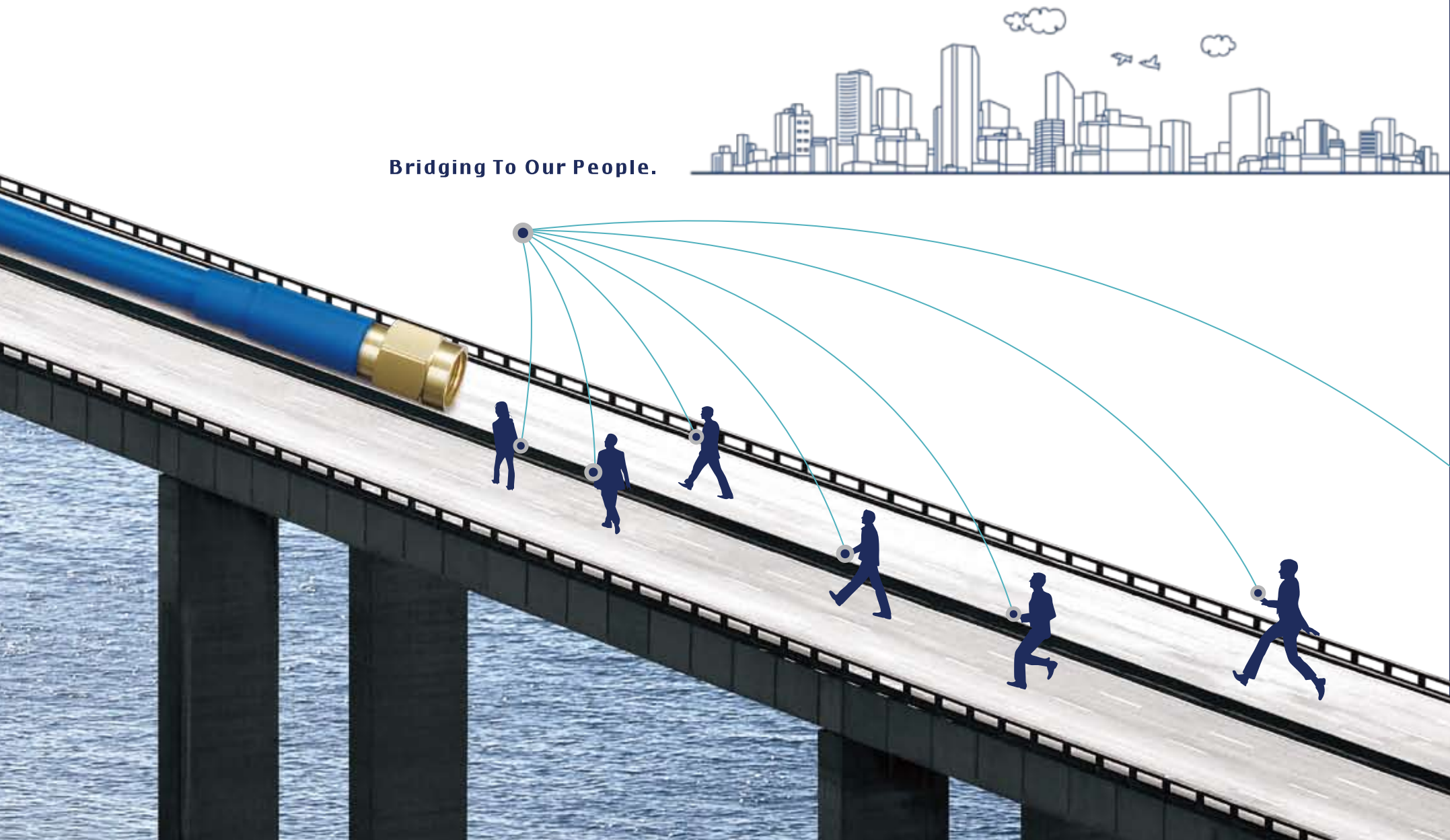
The strict quality control requirements of ISO 9001/2008 are faithfully adhered to at Frontlynk as we view reliability and efficiency as two of the most important values of our brand, and it starts in the factory. Whether it is incoming QC (IQC), process QC (PQC) or final QC (FQC), materials and finished goods are examined for consistency at each stage of the manufacturing process.

In addition, Frontlynk carries out a wide range of testing to ensure that what leaves our doors ends up in our client's premises in perfect condition:

- ELECTRICAL TESTING: Frontlynk has specialized testing instruments to examine all types of products' return loss, VSWR, conductor impedance, insulation impedance, and withstanding voltage in order to meet international regulations.
- MECHANICAL TESTING: Retention testers examine all products' stress, pressure, and damage tolerance.
- ENVIRONMENT TESTING: We regularly conduct salt spray testing in order to ensure that the electroplating of each component meets the **MIL** standard.

FRONTLYNK. PRODUCTS THAT CONNECT.

Bridging To Our People.



BRIDGING TO OUR PEOPLE.

Service is one area where we know that Frontlynk can make a real difference.
Our products are able to compete with what is on offer in the market and we are confident in our manufacturing and R&D ability. Moreover, we have the right people for the job, and we ensure that they have the opportunity to maintain and develop their skills in their field in order to pass that know-how benefit to the client.

Frontlynk staff is specifically trained to provide an all-round service to our clients, from technical problem solving to friendly and efficient advice or support. Regardless of our client's requirements, Frontlynk will combine its resources to provide comprehensive service from design, development, trial-run, mass production, shipment, and after-sales service to its customers.

As an outfit that is keen to increase its size and reputation in the market, Frontlynk is hungry to prove its ability and is always willing to go the extra mile with all its requests. We do not discriminate when it comes to service and for us, a satisfied customer is our bottom line.

FRONTLYNK. UNDERSTANDING OUR CLIENTS.

MODEL NUMBER SYSTEM-CONNECTOR

FL □□ - □ □ □ □ □ □ □□

SERIES

01	UNSPECIFIED SERIES
20	R/P BNC
23	R/P N
24	R/P TNC
28	R/P SMA
33	1.85
34	2.4
35	3.5
38	2.92
40	MC CARD
51	SSMB
52	SSMA
60	TRB
61	MINI BNC
62	MMBX
63	SMS
64	DIN 41626
65	SMP
66	QDS
68	FAKRA
69	BMA
70	BNC
71	SOLDERLESS
72	F
73	N
74	TNC
75	UHF
76	MINI UHF
77	RCA
78	SMA
79	PAL
80	FME
81	CABLE TERMINAL
82	G
90	7/16
91	SMB
92	1.6/5.6
93	BT43
94	STANDARD COAX PATCHING
95	MINIATURE COAX PATCHING
96	MCX
97	MMCX
98	SMC
99	1.0/2.3

GENDER

P	PLUG
B	PLUG/PLUG
C	PLUG/PLUG/PLUG
D	PLUG/JACK/PLUG
E	PLUG/JACK
J	JACK
G	JACK/JACK
H	JACK/JACK/JACK
K	JACK/PLUG/JACK
Z	OTHERS

MT. TYPE

1	CABLE, CRIMP
2	CABLE, SOLDER
3	CABLE, TWIST
4	CABLE, CLAMP
5	PCB, MOUNT
6	PCB, SMT
7	PCB, END LAUNCH
8	ADAPTOR
9	PANEL MOUNT
0	OTHERS

DETAILS

A	BULKHEAD, FRONT MOUNT
B	BULKHEAD, REAR MOUNT
C	BULKHEAD, FRONT MOUNT W/ GASKET
D	BULKHEAD, REAR MOUNT W/ GASKET
E	2 HOLES PANEL
F	4 HOLES PANEL
G	2 HOLES PANEL W/GASKET
H	4 HOLES PANEL W/GASKET
J	PANEL
K	LOCK CLIP (FAKRA)
L	END LAUNCH
N	NO DETAILS
P	CAP
Q	QUICK
R	PRESS IN
T	TERMINATOR CAP W/CHAIN
Y	ISOLATED, FRONT MOUNT
Z	ISOLATED, REAR MOUNT

OUTLINE

N	OTHERS
R	RIGHT ANGLE
S	STRAIGHT
T	T TYPE
U	U LINK
Y	Y LINK
F	F LINK

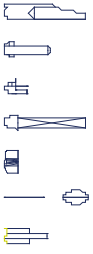
IMPEDANCE

5	50
7	75
9	93
0	OTHERS

CABLE GROUPS

RECEPT. TYPE

00	OTHERS
01	SOLDER CUP
02	BLUND POST
03	SLOT
04	HALF ROUNT
05	ACCEPTS PIN
06	TAB
07	EXPOSED TEFLON



MODEL NUMBER SYSTEM-BETWEEN SERIES ADAPTOR

FL □□ - □ □□ - □ □ □

SERIES

01	UNSPECIFIED SERIES
20	R/P BNC
23	R/P N
24	R/P TNC
28	R/P SMA
33	1.85
34	2.4
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38	2.92
40	MC CARD
51	SSMB
52	SSMA
60	TRB
61	MINI BNC
62	MMBX
63	SMS
64	DIN 41626
65	SMP
66	QDS
68	FAKRA
69	BMA
70	BNC
71	SOLDERLESS
72	F
73	N
74	TNC
75	UHF
76	MINI UHF
77	RCA
78	SMA
79	PAL
80	FME
81	CABLE TERMINAL
82	G
90	7/16
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94	STANDARD COAX PATCHING
95	MINIATURE COAX PATCHING
96	MCX
97	MMCX
98	SMC
99	1.0/2.3

GENDER

P	PLUG
J	JACK

SERIES

01	UNSPECIFIED SERIES
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GENDER

P	PLUG
J	JACK

DETAILS

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C	BULKHEAD, FRONT MOUNT W/ GASKET
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Y	ISOLATED, FRONT MOUNT
Z	ISOLATED, REAR MOUNT

OUTLINE

N	OTHERS
R	RIGHT ANGLE
S	STRAIGHT
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Y	Y LINK
F	F LINK

IMPEDANCE

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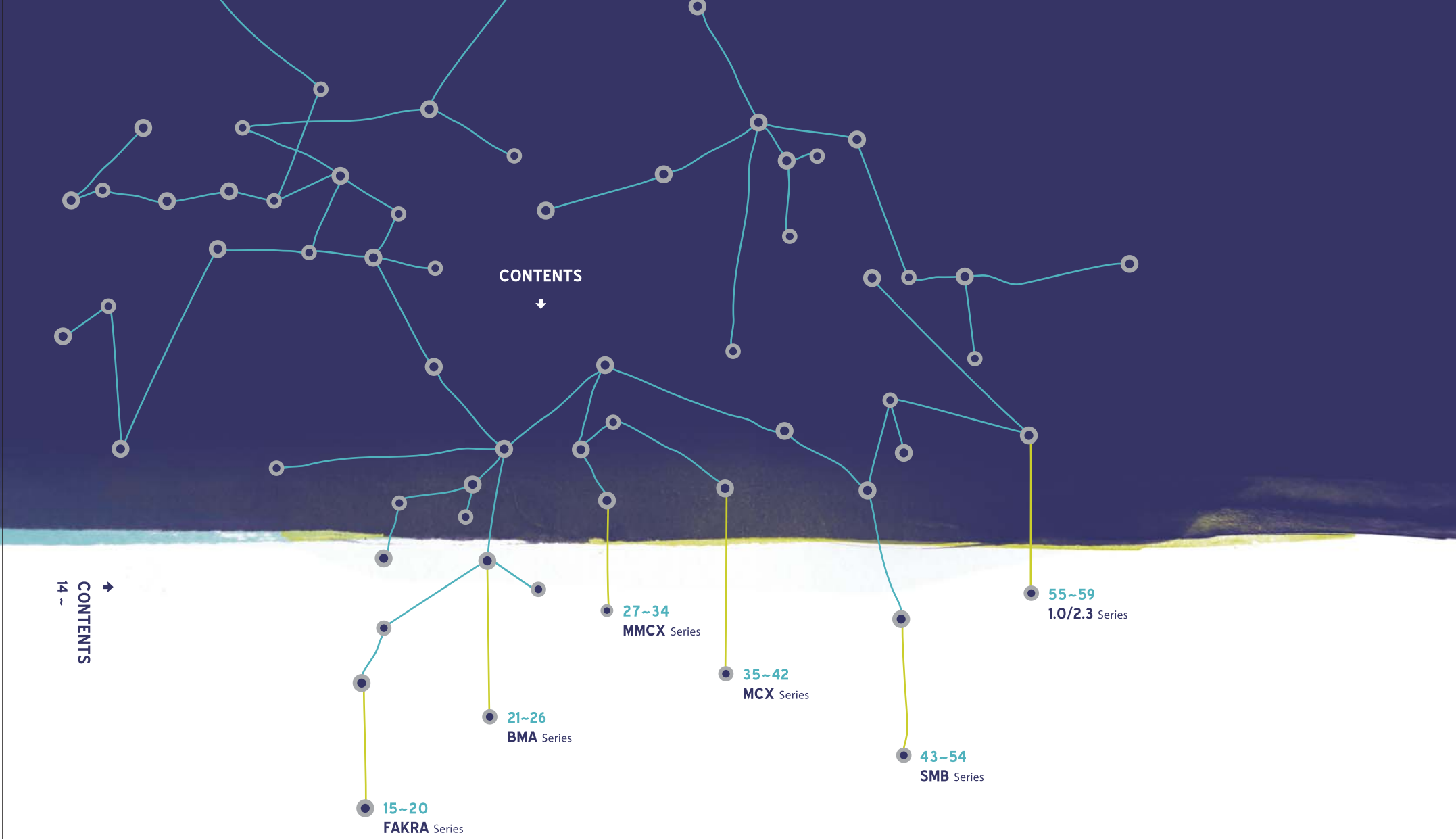

CONTENTS
15~20
FAKRA Series
21~26
BMA Series
27~34
MMCX Series
35~42
MCX Series
43~54
SMB Series
55~59
1.0/2.3 Series

CONTENTS
14 ~

FAKRA

CONNECTOR SERIES

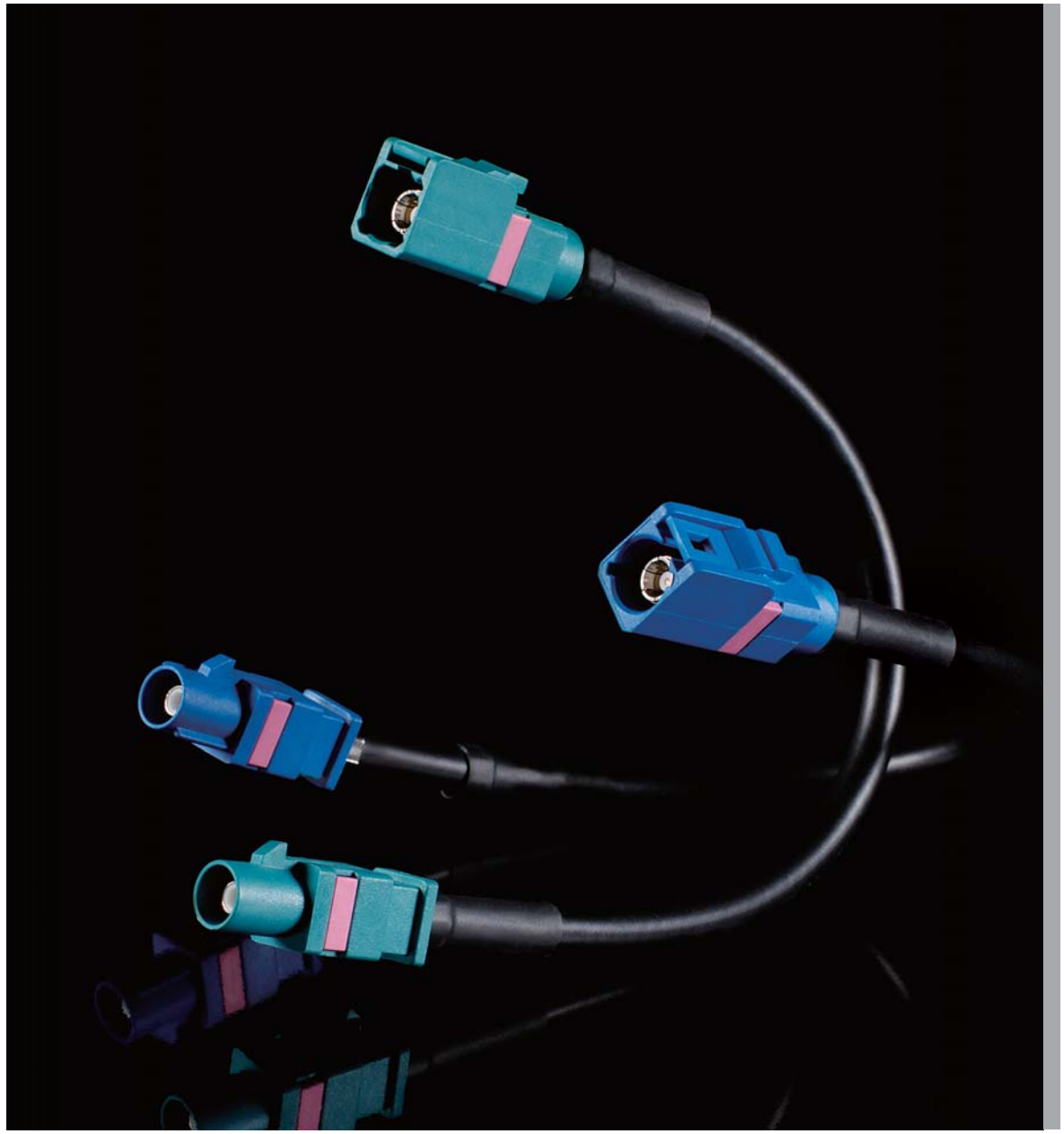
INTERFACE MATING DIMENSIONS

SPECIFICATIONS

CONTENTS:

R/A CRIMP PLUG
CRIMP PLUG
CRIMP JACK
PCB MOUNT JACK

Bridging Gaps

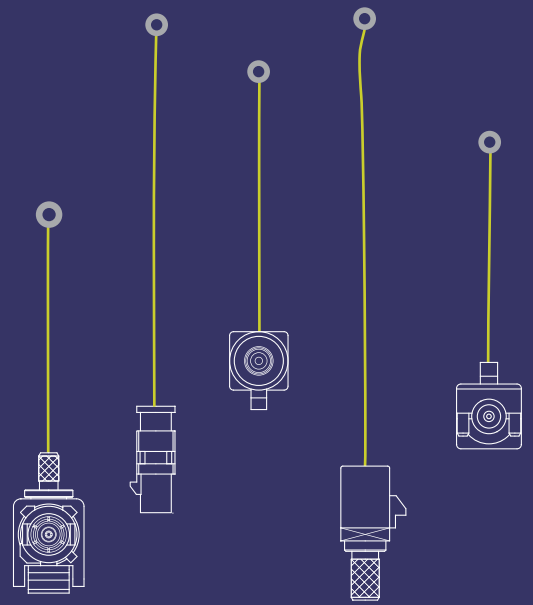


FAKRA series

To cope with the growing demand in telematics and multimedia applications for modern automobiles, the automotive industry has created a high-performing, cost-effective RF connector based on the FAKRA and USCAR standards.

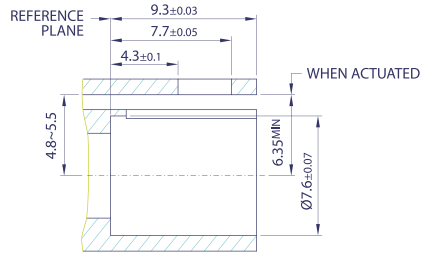
Based on SMB interface, FAKRA connectors include a plastic housing and are designed with multiple colored codes for easy identification.

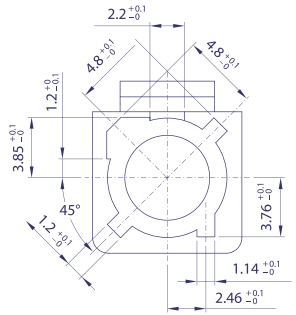
FAKRA connectors are designed to operate up to 4GHz and for applications of particular mechanical and environmental requirements of the automobile industry such as Digital Satellite Radio (SDARS), GSM, GPS...



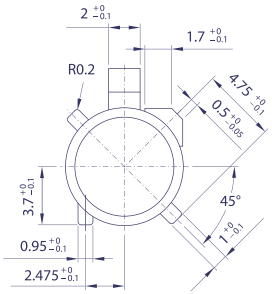
INTERFACE MATING DIMENSIONS

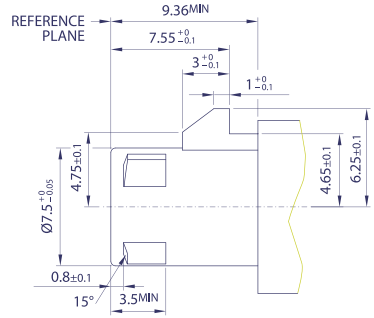
PLUG /

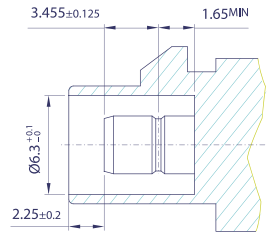




JACK /







SPECIFICATIONS

Electrical /

Impedance			50 Ohm
Frequency Range			0 – 4 GHz
Working Voltage			RG–178: 250 Vrms. Max. RG–316,.085": 335 Vrms. Max.
Dielectric Withstanding Voltage			RG–178: 750 Vrms. Min. RG–316,.085": 1000 Vrms. Min.
VSWR	Straight		1.3 Max.
	Right Angle		1.5 Max.
Contact Resistance		Center Contact	20 Milliohms Max.
		Outer Contact	10 Milliohms Max.
Insulator Resistance			1000 Megohms Min.

Material /

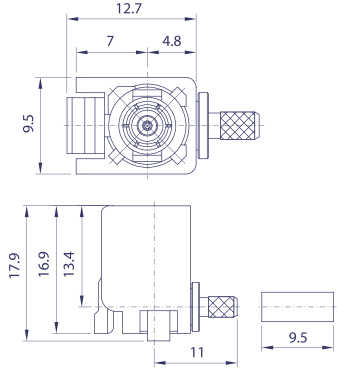
Parts Name	Material	Finish
Plastic Housing	PA66 w/ 30% Glass Fiber	See Coding Color
Body, Metal Parts	Brass per QQ-B-626	Nickel 70 micro-inches
Center Contacts	Male: Brass per QQ-B-626	Gold 30 micro-inches
	Female: Beryllium copper per QQ-C-530	Gold 30 micro-inches
Insulators	Teflon	White
Crimp Ferrules	Annealed Brass	Nickel 70 micro-inches

NOTE: Other Material / Finish is Available on Request.

Mechanical & Environmental /

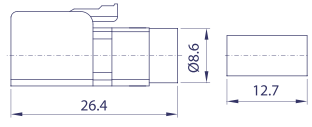
Plastic Housing Engagement Force	25 N Max.
Plastic Housing Disengagement Force	25 N Min.
Contact Retention	4 lbs. Min.
Durability(Mating)	25 cycles Min.
Temperature Range	-40°C to 105°C
Vibration	MIL-STD-202 Method 204 Test Cond.B.
Salt Spray	MIL-STD-202 Method 101 Test Cond.B.
Thermal Shock	MIL-STD-202 Method 107 Test Cond.B.

FAKRA
series



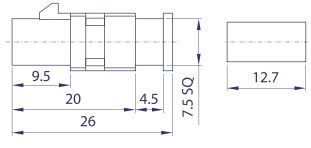
R/A CRIMP PLUG

Model No.	Cable Group	Impedance
FL68P1-NR5	RG-58/U, 58C/U RG-142A/U, 223/U, 400/U RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



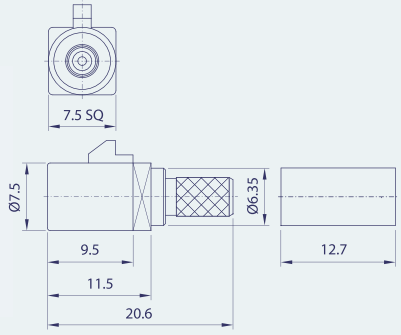
CRIMP PLUG

Model No.	Cable Group	Impedance
FL68P1-KS5	RG-58/U, 58C/U RG-142A/U, 223/U, 400/U RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



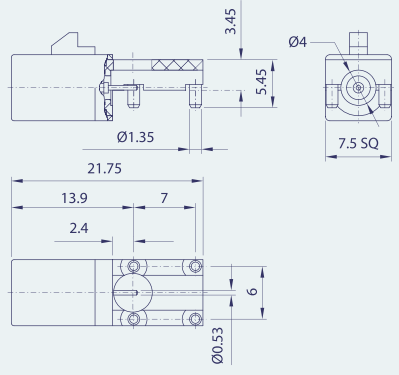
CRIMP JACK

Model No.	Cable Group	Impedance
FL78J1-KS5	RG-58/U, 58C/U RG-142A/U, 223/U, 400/U RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



CRIMP JACK

Model No.	Cable Group	Impedance
FL68J1-NS5	RG-58/U, 58C/U RG-142A/U, 223/U, 400/U RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



PCB MOUNT JACK

Model No.	Cable Group	Impedance
FL78J5-NS5	N/A	50

FAKRA
series

CODINGS / APPLICATIONS

Code	Plug	Jack	Color Similar To Ral No.	Possible Applications
A			Black 9005	Radio without phantom supply
B			Cream white 9001	Radio with phantom supply
C			Blue 5005	GPS
D			Bordeaux 4004	GSM cellular phone
E			Green 6002	TV1 / SDARS
F			Brown 8011	TV2 / SDARS
G			Grey 7031	Remote control keyless entry
H			Violet 4003	GPS for telematics and navigation
I			Beige 1001	Remote control parking heating
K			Curry 1027	Radio with IF
L			Carmine red 3002	Not defined
M			Pastel orange 2003	Not defined
N			Pastel green 6019	Not defined
Z			Water blue 5021	Neutral coding

BMA

CONNECTOR SERIES

INTERFACE MATING DIMENSIONS

SPECIFICATIONS

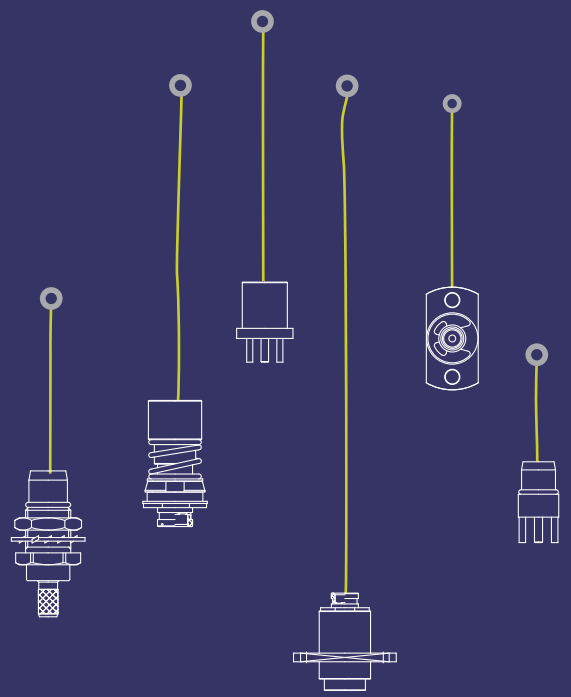
CONTENTS:

Bridging Gaps

BMA series

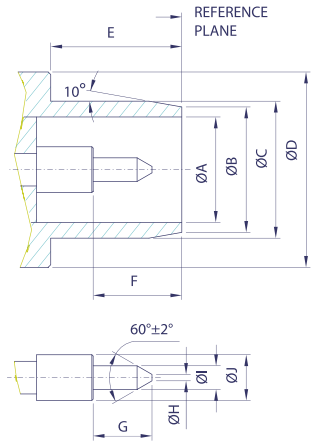
BMA series is an easy use snap-on connector having 50 Ohms impedance and is suitable for high performance microwave applications up to 18 GHz.

BMA series preserve mechanical and electrical performance with interfacial misalignment features. The connector used for wireless infrastructure, satellite equipment and measurement.

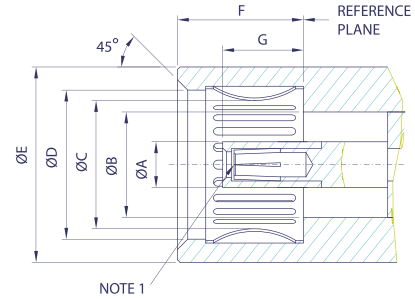


INTERFACE MATING DIMENSIONS

PLUG /



JACK /



PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	4.09 nom	
B	4.88 nom	
C	5.31	5.35
D	7.62 nom	
E	5.03	-
F	3.25	-
G	2.29 nom	
H	-	0.38
I	0.90	0.94
J	1.78 nom	

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	1.78 nom	
B	4.09 nom	
C	-	5.08
D	5.71	-
E	7.37	-
F	-	5.03
G	3.05	3.23

NOTE 1: I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 0.9 / 0.94 MM DIA. PIN.

SPECIFICATIONS

Electrical /

Impedance		50 Ohm
Frequency Range		0 - 12.4 GHz on Flexible cable 0 - 18 GHz on Semi-rigid cable
Working Voltage		RG-178: 170 Vrms. Max. RG-316, RG-405/U (.085"): 250 Vrms. Max. RG-412, RG-402/U (.141"): 335 Vrms. Max.
Dielectric Withstanding Voltage		RG-178: 500 Vrms. Min. RG-316, RG-405/U (.085"): 750 Vrms. Min. RG-142, RG-402/U (.141"): 1000 Vrms. Min.
VSWR	Straight	1.3 Max.
	Right Angle	1.5 Max.
Contact Resistance	Center Contact	3 Milliohms Max.
	Outer Contact	2 Milliohms Max.
Insulator Resistance		5000 Megohms Min.

Material /

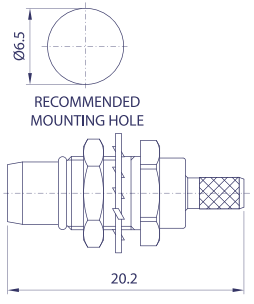
Parts Name	Material	Finish
Body, Metal Parts	Brass per QQ-B-626	Gold plated
Center Contacts	Male: Brass per QQ-B-626	Gold plated
	Female: Beryllium copper per QQ-C-530	Gold plated
Insulators	Teflon	White
Crimp Ferrules	Annealed Brass	Gold plated

NOTE: Other Material / Finish is Available on Request.

Mechanical & Environmental /

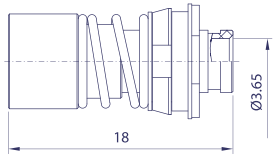
Engagement Force	13.5 N Max.
Disengagement Force	2 N Min.
Contact Retention	27 N Min.
Durability(Mating)	1000 cycles Min.
Temperature Range	-65°C to 125°C
Thermal Shock	MIL-STD-202, Method 107, Condition B
Moisture Resistance	MIL-STD-202 Method 106
Corrosion(Salt Spray)	MIL-STD-202 Method 101, Condition B
Vibration	MIL-STD-202 Method 204, Condition D
Shock	MIL-STD-202 Method 213, Condition I

BMA
series



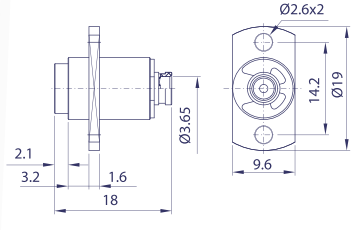
BULKHEAD CRIMP PLUG

Model No.	Cable Group	Impedance
FL69P1-BS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID	50



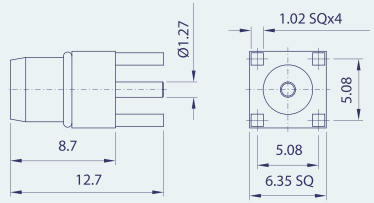
BULKHEAD SOLDER JACK

Model No.	Cable Group	Impedance
FL69J2-BS5	.141″	50



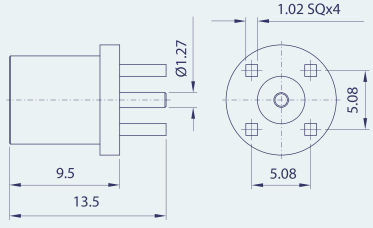
PANEL SOLDER JACK

Model No.	Cable Group	Impedance
FL69J2-ES5	.141″	50



PCB MOUNT PLUG

Model No.	Cable Group	Impedance
FL69P5-NS502	N/A	50



PCB MOUNT JACK

Model No.	Cable Group	Impedance
FL69J5-NS502	N/A	50

MMCX

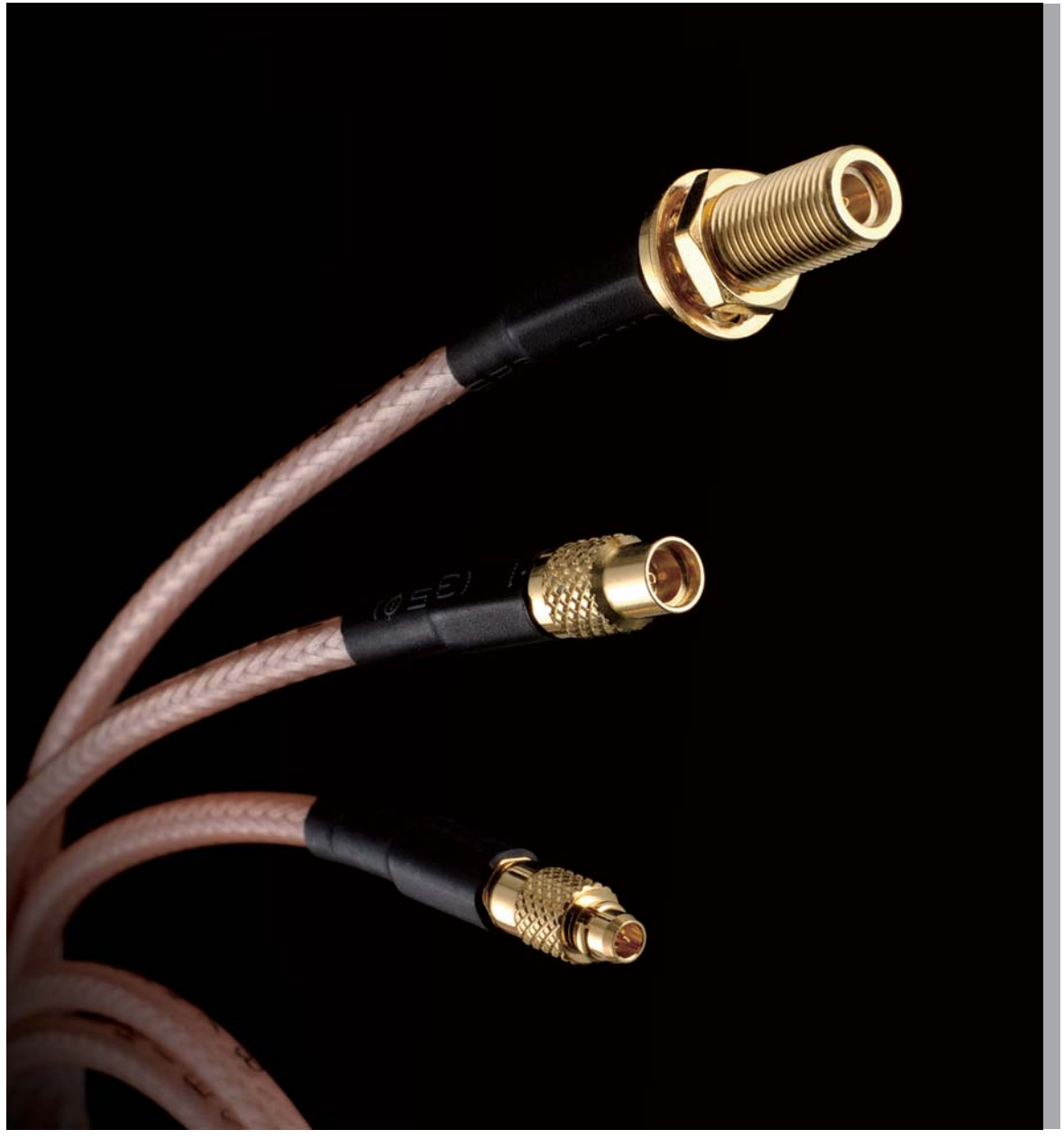
CONNECTOR SERIES

INTERFACE MATING DIMENSIONS

SPECIFICATIONS

CONTENTS:

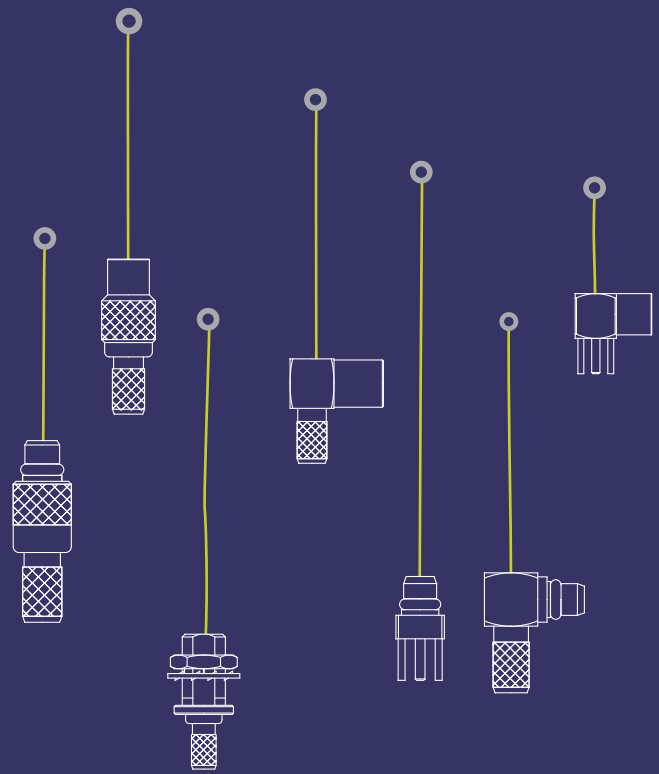
Bridging Gaps



MMCX series

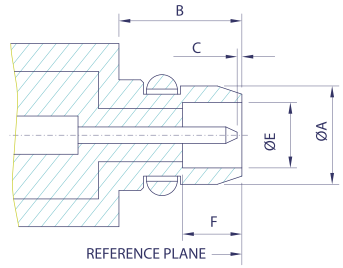
MMCX series is intended for use in applications where the smallest dimensions have to be achieved.

MMCX connectors can be used in applications up to DC 6 GHz and aim to meet the expanding needs of surface mount coaxial interconnection system as well as the conventional connector styles for flexible and semi-rigid cables.

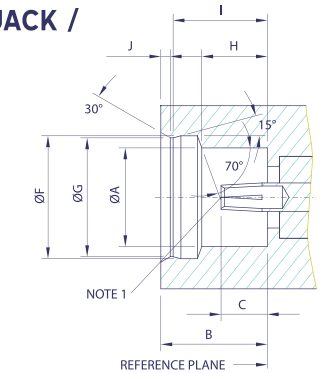


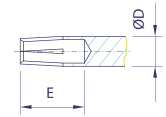
INTERFACE MATING DIMENSIONS

PLUG /



JACK /





PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	-	2.40
B	2.70	-
C	0.00	0.25
D	-	3.15
E	1.58	1.62
F	1.45	-
G	0.38	0.42
H	-	0.20

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	2.41	-
B	2.60	-
C	0.90	1.20
D	0.68	0.72
E	1.40	-
F	3.00	3.04
G	2.87	2.90
H	1.57	1.63
I	2.30	2.34
J	-	0.23

NOTE 1: I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 0.38 / 0.42 MM DIA. PIN.

SPECIFICATIONS

Electrical /

Impedance			50 Ohm
Frequency Range			0 – 6 GHz
Working Voltage			170 Vrms. Max.
Dielectric Withstanding Voltage			500 Vrms. Min.
VSWR	Straight		1.3 Max.
	Right Angle		1.5 Max.
Contact Resistance		Center Contact	5 Milliohms Max.
		Outer Contact	2.5 Milliohms Max.
Insulator Resistance			1000 Megohms Min.

Material /

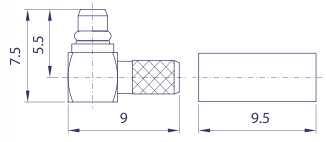
Parts Name	Material	Finish
Body, Metal Parts	Brass per QQ-B-626	Gold 3 micro-inches
Center Contacts	Male: Brass per QQ-B-626	Gold 30 micro-inches
	Female: Beryllium copper per QQ-C-530	Gold 30 micro-inches
Insulators	Teflon	White
Crimp Ferrules	Brass	Gold 3 micro-inches

NOTE: Other Material / Finish is Available on Request.

Mechanical & Environmental /

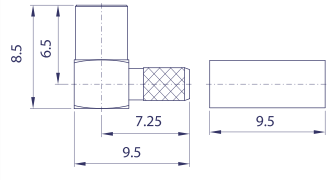
Engagement Force	3.4 lbs. Max.
Disengagement Force	1.4 lbs. - 8 lbs.
Contact Retention	2.3 lbs. Min.
Durability(Mating)	500 cycles Min. (For beryllium copper female contact only)
Temperature Range	-65˚C to 155˚C
Vibration	MIL STD 202, Method 204, Condition D.
Temperature Shock	MIL-STD-202 Method 107
Humidity	MIL-STD-202 Method 103, Condition B.
Mechanical Shock	MIL-STD-202 Method 213, Condition B.

MMCX
series



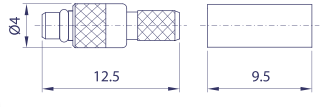
R/A CRIMP PLUG

Model No.	Cable Group	Impedance
FL97P1-NR5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



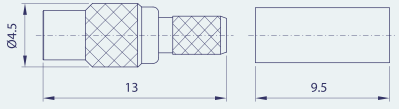
R/A CRIMP JACK

Model No.	Cable Group	Impedance
FL97J1-NR5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



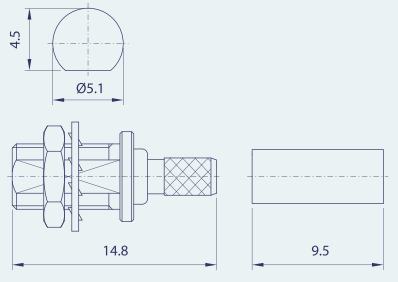
CRIMP PLUG

Model No.	Cable Group	Impedance
FL97P1-NS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



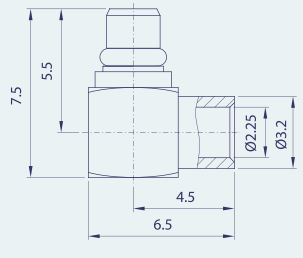
CRIMP JACK

Model No.	Cable Group	Impedance
FL97J1-NS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



BULKHEAD CRIMP JACK

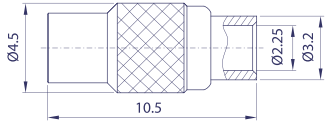
Model No.	Cable Group	Impedance
FL97J1-BS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



R/A DIRECT SOLDER PLUG

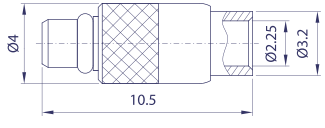
Model No.	Cable Group	Impedance
FL97P2-NR5	.085",.086"	50

MMCX
series



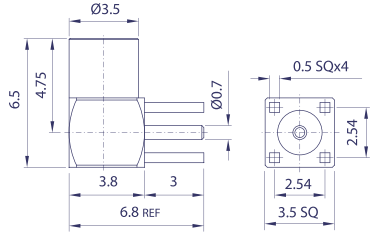
DIRECT SOLDER JACK

Model No.	Cable Group	Impedance
FL97J2-NS5	.085",.086"	50



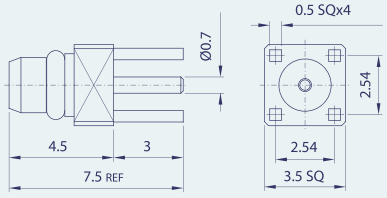
DIRECT SOLDER PLUG

Model No.	Cable Group	Impedance
FL97P2-NS5	.085",.086"	50



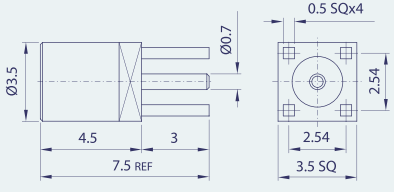
R/A PCB MOUNT JACK

Model No.	Cable Group	Impedance
FL97J5-NR502	N/A	50



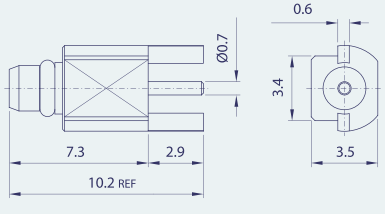
PCB MOUNT PLUG

Model No.	Cable Group	Impedance
FL97P5-NS502	N/A	50



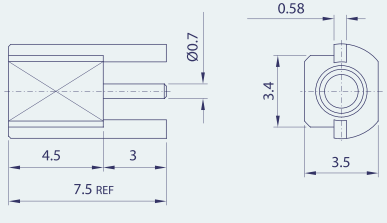
PCB MOUNT JACK

Model No.	Cable Group	Impedance
FL97J5-NS502	N/A	50



END LAUNCH PLUG-SMT

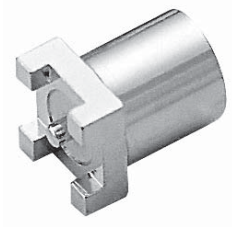
Model No.	Cable Group	Impedance
FL97P6-LS502	N/A	50

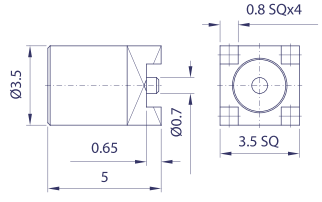


END LAUNCH JACK-SMT

Model No.	Cable Group	Impedance
FL97J6-LS502	N/A	50

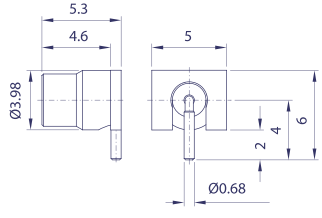
MMCX
series





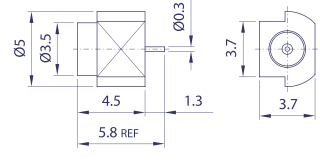
SMT JACK

Model No.	Cable Group	Impedance
FL97J6-NS502	N/A	50



SMT JACK

Model No.	Cable Group	Impedance
FL97J6-NS502	N/A	50



SMT END LAUNCH JACK

Model No.	Cable Group	Impedance
FL97J6-LS502BD001	N/A	50

MCX

CONNECTOR SERIES

INTERFACE MATING DIMENSIONS

SPECIFICATIONS

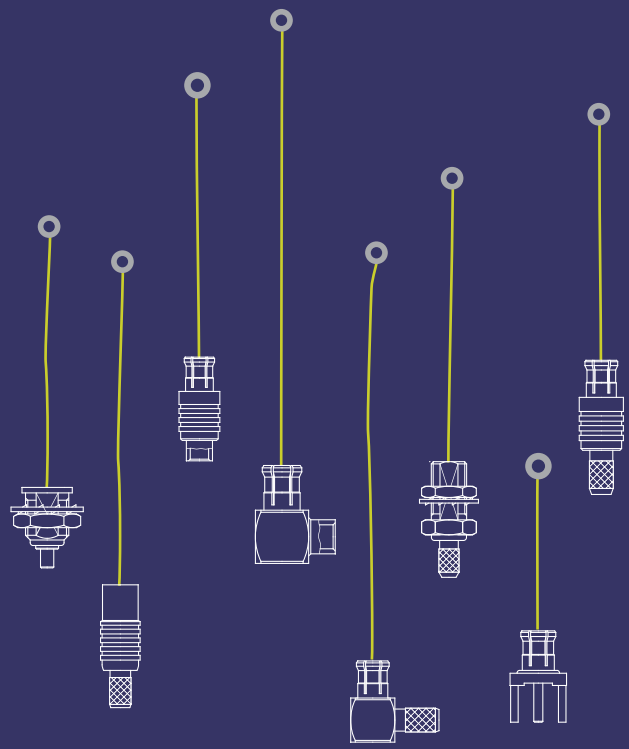
CONTENTS:

Bridging Gaps

MCX series

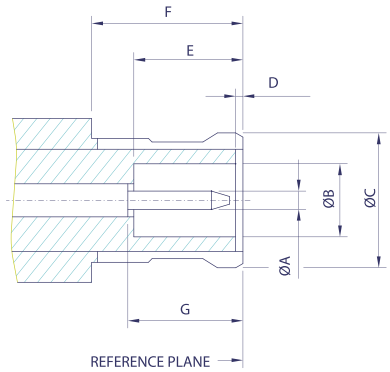
MCX miniature snap-on connectors with a 50 Ohm impedance structure operate in a frequency range up to 6 GHz.

MCX series is ideal for applications of GPS, wireless communication and test measurement.

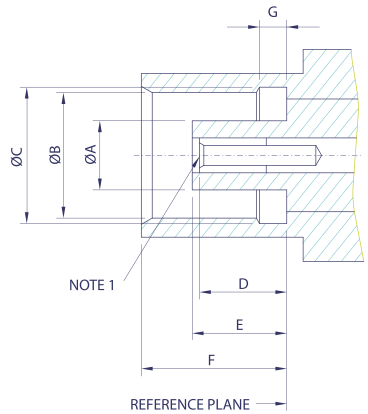


INTERFACE MATING DIMENSIONS

PLUG /



JACK /



PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	0.48	0.53
B	2.00	2.07
C	3.66	3.76
D	0.00	0.30
E	2.81	3.20
F	4.16	-
G	2.81	3.20

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	1.80	1.97
B	3.43	3.48
C	3.61	3.75
D	2.31	2.79
E	2.61	2.79
F	4.00	4.12
G	0.75	0.85

NOTE 1: I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 0.48 / 0.53 MM DIA. PIN.

SPECIFICATIONS

Electrical /

Impedance			50 Ohm
Frequency Range			0 – 6 GHz
Working Voltage			335 Vrms. Max.
Dielectric Withstanding Voltage			1000 Vrms. Min.
VSWR	Straight		1.3 Max.
	Right Angle		1.5 Max.
Contact Resistance		Center Contact	5 Milliohms Max.
		Outer Contact	2.5 Milliohms Max.
Insulator Resistance			1000 Megohms Min.

Material /

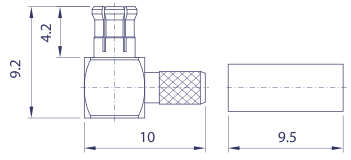
Parts Name	Material	Finish
Body, Metal Parts	Brass per QQ-B-626	Gold 3 micro-inches
Center Contacts	Male: Brass per QQ-B-626	Gold 30 micro-inches
	Female: Beryllium copper per QQ-C-530	Gold 30 micro-inches
Insulators	Teflon	White
Outer Contact of male	Beryllium copper per QQ-C-530	Gold 3 micro-inches
Crimp Ferrules	Brass	Gold 3 micro-inches

NOTE: Other Material / Finish is Available on Request.

Mechanical & Environmental /

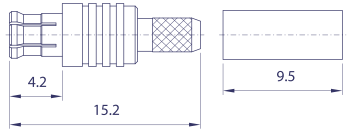
Engagement Force	3.4 lbs. Max.
Disengagement Force	4.5 lbs. Max.
Contact Retention	4 lbs. Min.
Durability(Mating)	500 cycles Min. (For beryllium copper female contact only)
Temperature Range	-65˚C to 155˚C
Vibration	MIL STD 202, Method 204, Condition D.
Temperature Shock	MIL-STD-202 Method 107
Humidity	MIL-STD-202 Method 103, Condition B.
Mechanical Shock	MIL-STD-202 Method 213, Condition B.

MCX
series



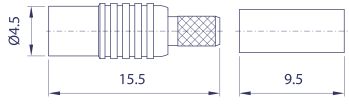
R/A CRIMP PLUG

Model No.	Cable Group	Impedance
FL96P1-NR5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



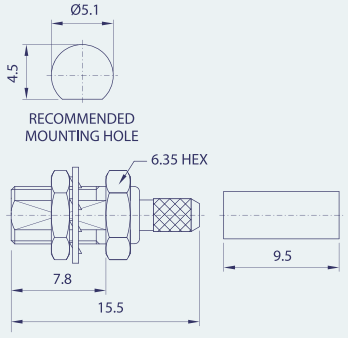
CRIMP PLUG

Model No.	Cable Group	Impedance
FL96P1-NS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



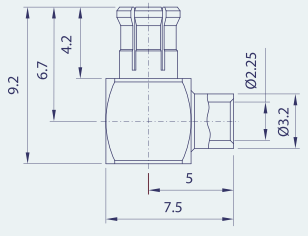
CRIMP JACK

Model No.	Cable Group	Impedance
FL96J1-NS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



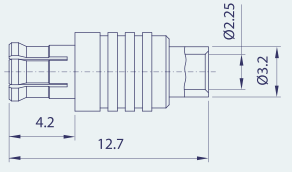
BULKHEAD CRIMP JACK

Model No.	Cable Group	Impedance
FL96J1-BS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



R/A DIRECT SOLDER PLUG

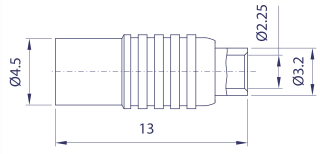
Model No.	Cable Group	Impedance
FL96P2-NR5	.085",.086"	50



DIRECT SOLDER PLUG

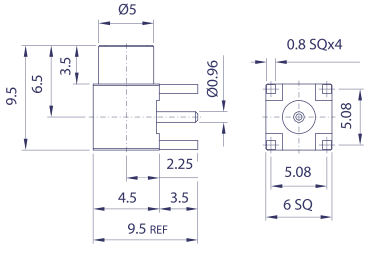
Model No.	Cable Group	Impedance
FL96P2-NS5	.085",.086"	50

MCX
series



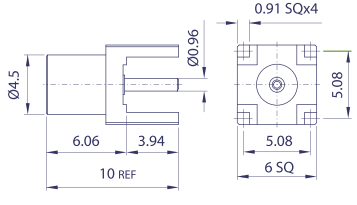
DIRECT SOLDER JACK

Model No.	Cable Group	Impedance
FL96J2-NS5	.085",.086"	50



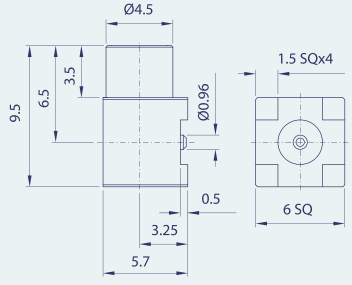
R/A PCB MOUNT JACK

Model No.	Cable Group	Impedance
FL96J5-NR502	N/A	50



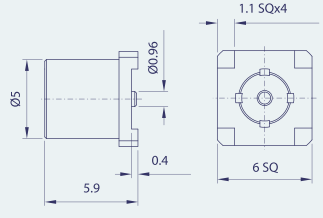
PCB MOUNT JACK

Model No.	Cable Group	Impedance
FL96J5-NS502	N/A	50



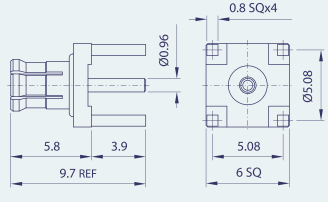
R/A SMT JACK

Model No.	Cable Group	Impedance
FL96J6-NR502	N/A	50



SMT JACK

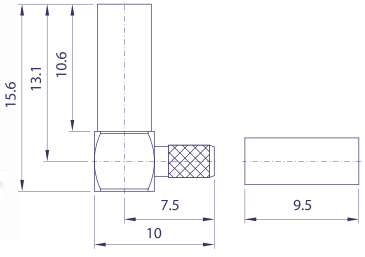
Model No.	Cable Group	Impedance
FL96J6-NS502	N/A	50



PCB MOUNT PLUG

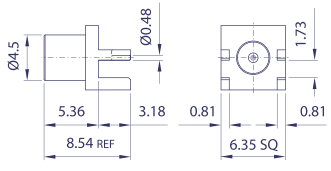
Model No.	Cable Group	Impedance
FL96P5-NS502	N/A	50

MCX
series



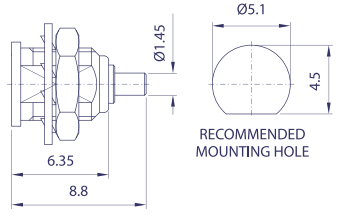
R/A CRIMP JACK

Model No.	Cable Group	Impedance
FL96J1-NR5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



END LAUNCH JACK

Model No.	Cable Group	Impedance
FL96J7-LS502	N/A	50



BULKHEAD RECEPT JACK

Model No.	Cable Group	Impedance
FL96J9-AS501	N/A	50

SMB

CONNECTOR SERIES

INTERFACE MATING DIMENSIONS

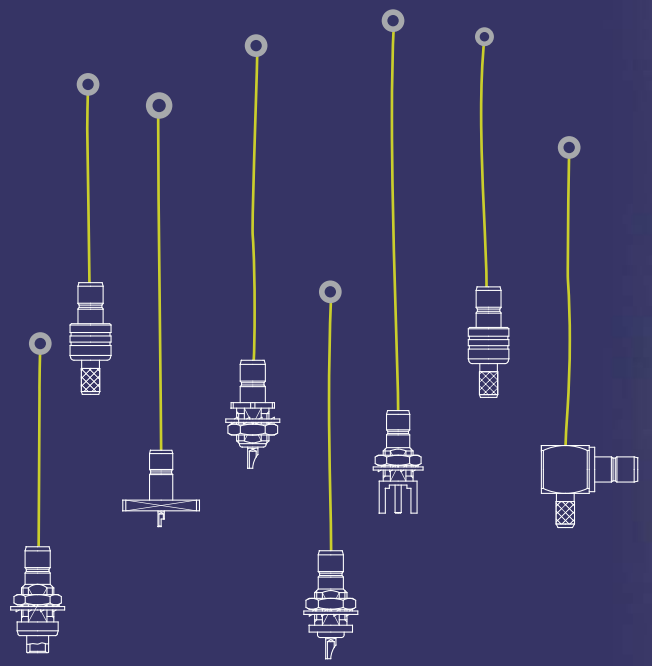
SPECIFICATIONS

CONTENTS:

Bridging Gaps

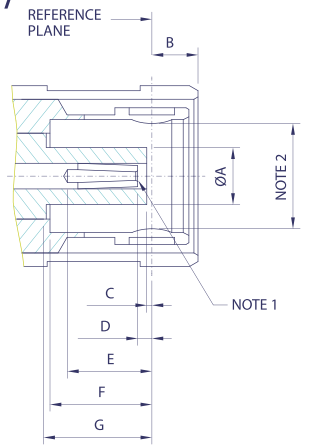
SMB series

SMB series is semi-precision and subminiature device that provides repeatable electrical performance to 4 GHz. SMB family of connectors provides a mean of quick connect/disconnect through a snap-on type coupling. SMB connectors are popularly used in telecommunications, test equipment and instrumentation.

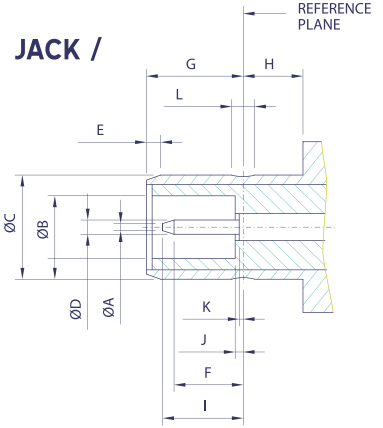


INTERFACE MATING DIMENSIONS

PLUG /



JACK /



PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	2.00	2.06
B	-	1.62
C	0.18	-
D	0.18	0.94
E	2.97	-
F	3.58	-
G	3.58	-

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	-	0.25
B	2.08	2.16
C	3.66	3.71
D	0.48	0.53
E	0.00	-
F	1.32	-
G	3.33	3.58
H	2.03	-
I	-	2.97
J	-	0.18
K	-	0.18
L	0.69	0.94

NOTE 1: I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 0.48 / 0.53 MM DIA. PIN.

NOTE 2: MUST MEET THE FORCE TO ENGAGE AND DISENGAGE WHEN MATED WITH MATING PART.

SPECIFICATIONS

Electrical /

Impedance		50 Ohm
Frequency Range		0 – 4 GHz
Working Voltage		RG–178: 250 Vrms. Max. RG–316, .085": 335 Vrms. Max.
Dielectric Withstanding Voltage		RG–178: 750 Vrms. Min. RG–316, .085": 1000 Vrms. Min.
VSWR	Straight	1.3 Max.
	Right Angle	1.5 Max.
Contact Resistance	Center Contact	6 Milliohms Max.
	Outer Contact	2.5 Megohms Max
Insulator Resistance		1000 Megohms Min.

Material /

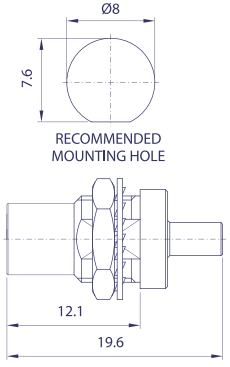
Parts Name	Material	Finish
Body, Metal Parts	Brass per QQ-B-626	Gold 3 micro-inches
Center Contacts	Male: Brass per QQ-B-626	Gold 30 micro-inches
	Female: Beryllium copper per QQ-C-530	Gold 30 micro-inches
Insulators	Teflon	White
Crimp Ferrules	Brass	Gold 3 micro-inches

NOTE: Other Material / Finish is Available on Request.

Mechanical & Environmental /

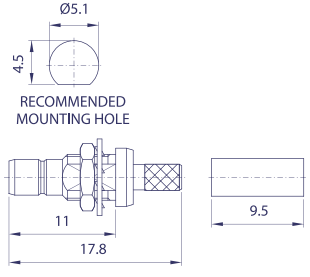
Engagement/ Disengagement Force	14 lbs. Max.
Contact Retention	4 lbs. Min.
Durability（Mating）	500 cycles Min. (For beryllium copper female contact only)
Temperature Range	-65°C to 165°C
Vibration	MIL-STD-202 Method 204 Test Cond. B.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.
Thermal Shock	MIL-STD-202 Method 107 Test Cond. B..

SMB
series



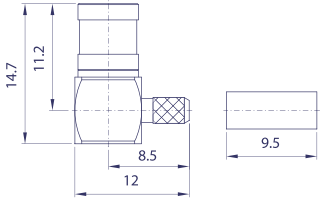
BULKHEAD CRIMP PLUG

Model No.	Cable Group	Impedance
FL91P1-BS5	1.13mm, 1.32mm, 1.5mm	50



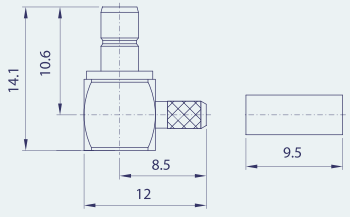
BULKHEAD CRIMP JACK

Model No.	Cable Group	Impedance
FL91J1-BS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



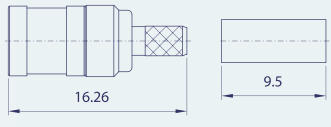
R/A CRIMP PLUG

Model No.	Cable Group	Impedance
FL91P1-NR5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



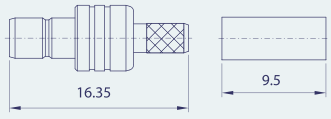
R/A CRIMP JACK

Model No.	Cable Group	Impedance
FL91J1-NR5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



CRIMP PLUG

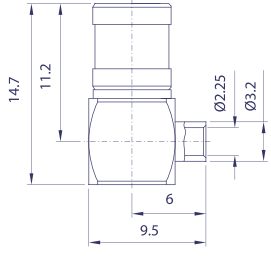
Model No.	Cable Group	Impedance
FL91P1-NS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



CRIMP JACK

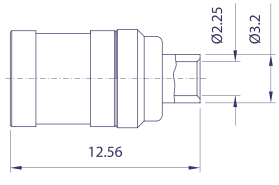
Model No.	Cable Group	Impedance
FL91J1-NS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50

SMB
series



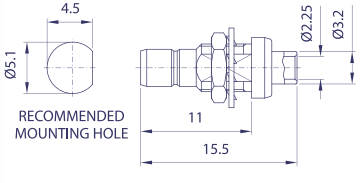
R/A DIRECT SOLDER PLUG

Model No.	Cable Group	Impedance
FL91P2-NR5	.085",.086"	50



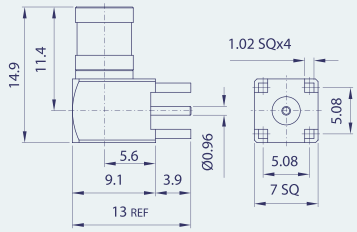
DIRECT SOLDER PLUG

Model No.	Cable Group	Impedance
FL91P2-NS5	.085",.086"	50



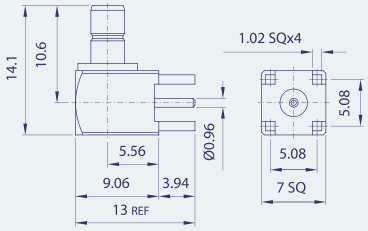
BULKHEAD DIRECT SOLDER JACK

Model No.	Cable Group	Impedance
FL91J2-BS5	.085",.086"	50



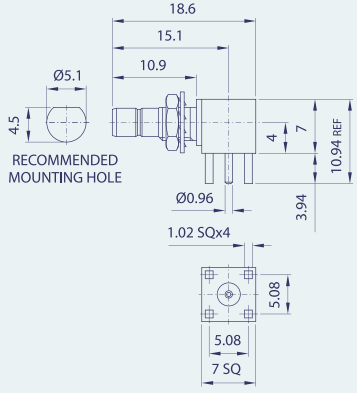
R/A PCB MOUNT PLUG

Model No.	Cable Group	Impedance
FL91P5-NR502	N/A	50



R/A PCB MOUNT JACK

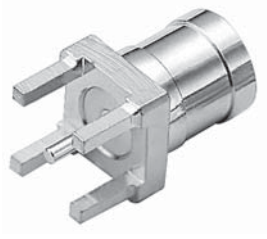
Model No.	Cable Group	Impedance
FL91J5-NR502	N/A	50

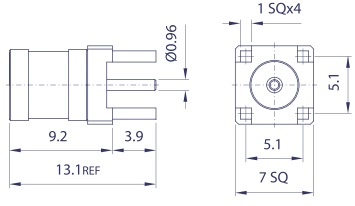


R/A PCB RECEPT JACK

Model No.	Cable Group	Impedance
FL91J5-BR502	N/A	50

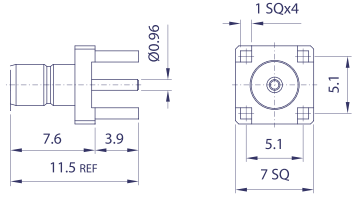
SMB
series





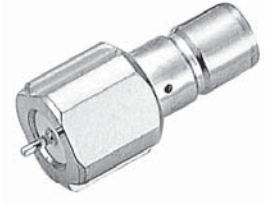
PCB MOUNT PLUG

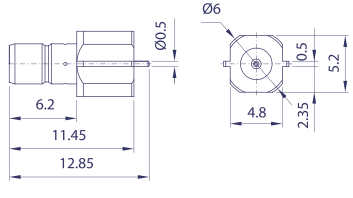
Model No.	Cable Group	Impedance
FL91P5-NS502	N/A	50



PCB MOUNT JACK

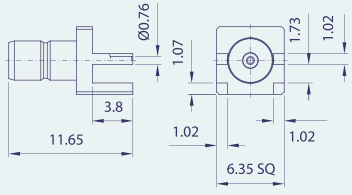
Model No.	Cable Group	Impedance
FL91J5-NS502	N/A	50





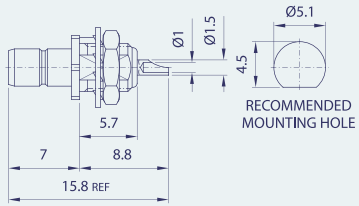
SMT END LAUNCH JACK

Model No.	Cable Group	Impedance
FL91J6-LS502	N/A	50



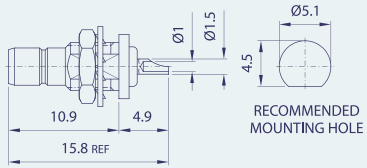
END LAUNCH JACK

Model No.	Cable Group	Impedance
FL91J7-LS502	N/A	50



BULKHEAD RECEPT JACK

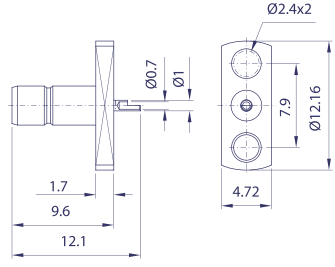
Model No.	Cable Group	Impedance
FL91J9-AS501	N/A	50



BULKHEAD RECEPT JACK

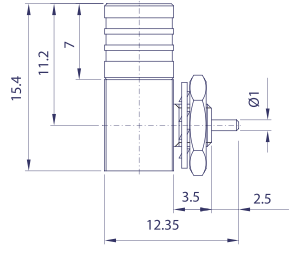
Model No.	Cable Group	Impedance
FL91J9-BS501	N/A	50

SMB
series



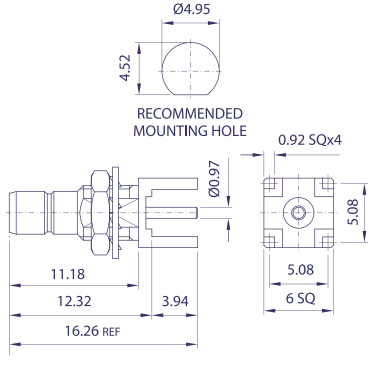
PANEL RECEPT JACK

Model No.	Cable Group	Impedance
FL91J9-ES501	N/A	50



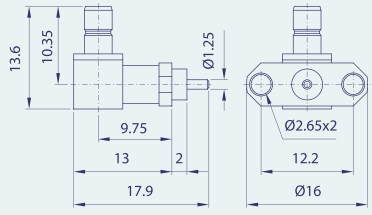
R/A BULKHEAD RECEPT PLUG

Model No.	Cable Group	Impedance
FL91P0-AR502	N/A	50



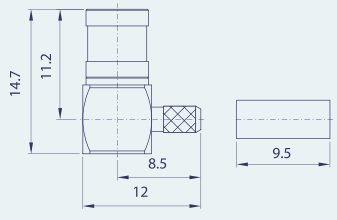
BULKHEAD PCB MOUNT JACK

Model No.	Cable Group	Impedance
FL91J5-BS502	N/A	50



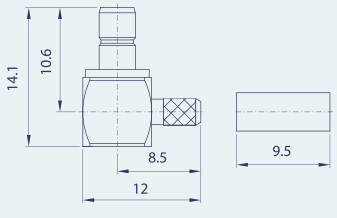
R/A PANEL RECEPT JACK

Model No.	Cable Group	Impedance
FL91J9-ER507	N/A	50



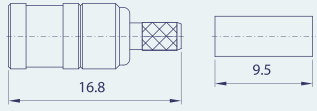
R/A CRIMP PLUG

Model No.	Cable Group	Impedance
FL91P1-NR7	RG-179/U, 187A/U	75



R/A CRIMP JACK

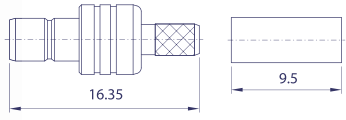
Model No.	Cable Group	Impedance
FL91J1-NR7	RG-179/U, 187A/U	75



CRIMP PLUG

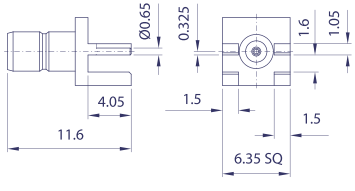
Model No.	Cable Group	Impedance
FL91P1-NS7	RG-179/U, 187A/U	75

SMB
series



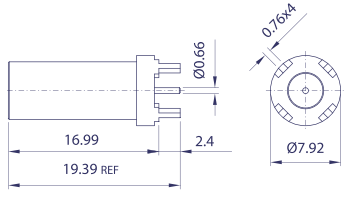
CRIMP JACK

Model No.	Cable Group	Impedance
FL91J1-NS7	RG-179/U, 187A/U	75



END LAUNCH JACK

Model No.	Cable Group	Impedance
FL91J7-LS702	N/A	75



PCB MOUNT PLUG

Model No.	Cable Group	Impedance
FL91P5-NS702	N/A	75

1.0/2.3

CONNECTOR SERIES

INTERFACE MATING DIMENSIONS

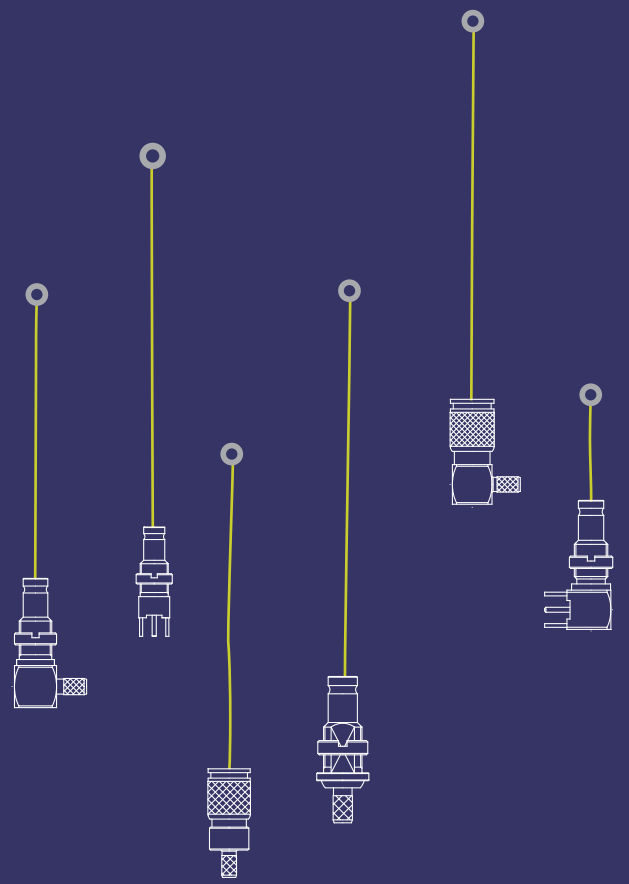
SPECIFICATIONS

CONTENTS:

Bridging Gaps

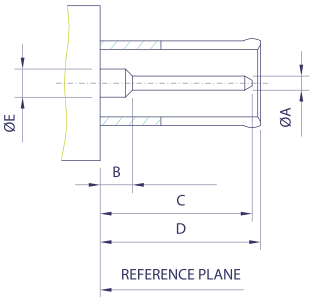
1.0/2.3 series

1.0/2.3 connectors feature a slide-on coupling mechanism to prevent accidental disconnection.
The 1.0/2.3 series is suitable for applications up to 4 GHz and especially ideal for telecommunication systems.



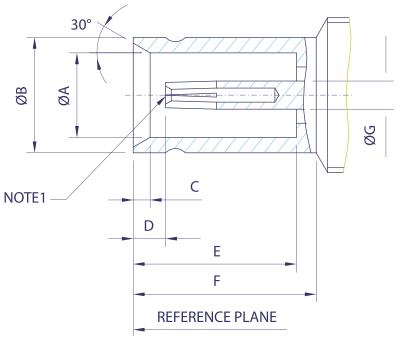
INTERFACE MATING DIMENSIONS

PLUG /



PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	0.48	0.52
B	-	1.15
C	-	5.50
D	5.50	5.70
E	0.98	1.02

JACK /



JACK		
Letter	Millimeters	
	Minimum	Maximum
A	3.00	3.06
B	4.03	4.15
C	0.50	0.60
D	1.15	-
E	5.80	5.90
F	6.40	6.50
G	0.98	1.02

NOTE 1: I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 0.48 / 0.52 MM DIA. PIN.

SPECIFICATIONS

Electrical /

Impedance		50 Ohm
Frequency Range		0 – 4 GHz
Working Voltage		250 Vrms. Max.
Dielectric Withstanding Voltage		750 Vrms. Min.
VSWR	Straight	1.3 Max.
	Right Angle	1.5 Max.
Contact Resistance	Center Contact	6 Milliohms Max.
	Outer Contact	3 Milliohms Max.
Insulator Resistance		1000 Megohms Min.

Material /

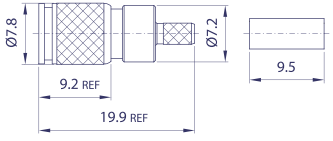
Parts Name	Material	Finish
Body, Metal Parts	Brass per QQ-B-626	Nickel 70 micro-inches
Outer Contact (Plug)	Phosphor Bronze per QQ-B-750	Gold 3 micro-inches
Center Contacts	Male: Brass per QQ-B-626	Gold 30 micro-inches
	Female: Beryllium copper per QQ-C-530	Gold 30 micro-inches
Insulators	Teflon	White
Crimp Ferrules	Brass	Nickel 70 micro-inches

NOTE: Other Material / Finish is Available on Request.

Mechanical & Environmental /

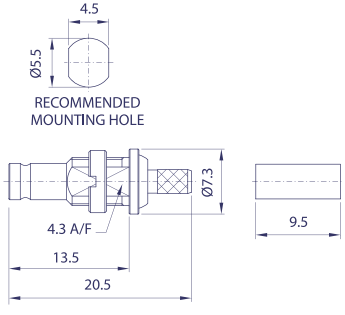
Engagement Force	2.3 lbs. Max.
Disengagement Force	2.3 lbs. Max.
Contact Retention	4 lbs. Min.
Durability(Mating)	500 cycles Min. (For beryllium copper female contact only)

1.0/2.3
series



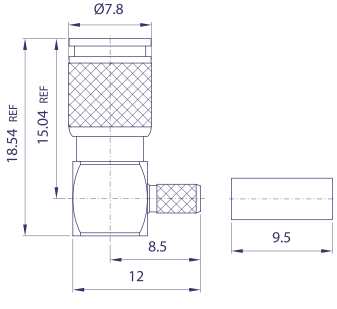
CRIMP PLUG

Model No.	Cable Group	Impedance
FL99P1-NS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



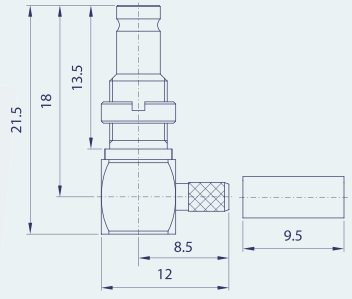
BULKHEAD CRIMP JACK

Model No.	Cable Group	Impedance
FL99J1-BS5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



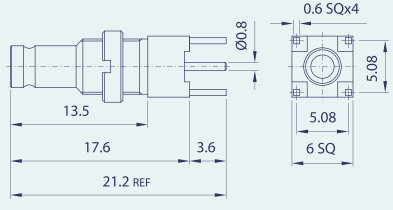
R/A CRIMP PLUG

Model No.	Cable Group	Impedance
FL99P1-NR5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



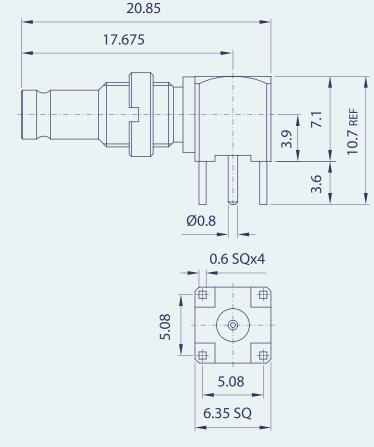
R/A CRIMP JACK

Model No.	Cable Group	Impedance
FL99J1-BR5	RG-174/U, 188A/U, 316/U RG-316/U DOUBLE BRAID RG-178B/U, 196A/U	50



BULKHEAD PCB MOUNT JACK

Model No.	Cable Group	Impedance
FL99J5-BS502	N/A	50



R/A PCB MOUNT JACK

Model No.	Cable Group	Impedance
FL99J5-BR502	N/A	50

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