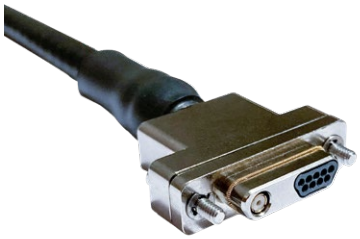
Coax and combo coax jumper assemblies
Plug-to-plug • plug-to-receptacle • receptacle-to-receptacle



Back-to-back Coax cable assemblies provide a turnkey solution for easy on-site installation. Assemblies are supplied with GMMD plug or receptacle on each end in a choice of any coax or combo contact arrangement. Environmental seal options are available for plug connectors. 50Ω and 75Ω Coax cable may be ordered in flexible or semi-rigid configurations, standard M22759/33 signal cable in 24 – 30 AWG. EMI shielded with five optional braid materials, including Glenair Signature weight-saving composite microfilament AmberStrand or microfilament stainless steel ArmorLite. Outer jacket options available for environmental and abrasion protection. Integral backshells, hardware, and wire exit direction all fully customizable.

HOW TO ORDER

Sample Part Number	**GMMD**	**-FPE**	**2C15**	**-C**	**M**	**A**	**N**	**R**	**L**	**5**	**-FPE**	**T**	**S**	**3**	**2**	**-800**	**-2**

Series	**GMMD** = Glenair Modular High-Speed Micro-D
Connector 1 Type	**FP** = Plug **FPE** = Plug Environmental **FR** = Receptacle **FRP** = Rear Panel Mount Receptacle
Contact Arrangement	**2C9** = 2 X 50Ω Coax + 9 X #24 discretes **4V15** = 4 X 75Ω Coax + 15 X #24 discretes **8C** = 8 X 50Ω Coax
Coax Cable	**-C** = 50Ω RG178 **-V** = 75Ω RG179 **-D** = 50Ω 047 Semi-Rigid **-W** = 75Ω Semi-Rigid **-E** = 50Ω 047 Flexible
Signal Cables*	**L** = 24AWG M22759/33 wire **N** = 28AWG M22759/33 wire **M** = 26AWG M22759/33 wire **O** = 30AWG M22759/33 wire
Shield Options	**A** = SnCu braid (100-001A) **B** = 100% AmberStrand (103-026) **C** = 100% ArmorLite (103-051) **E** = AgCu braid (100-002A) **F** = NiCu braid (100-003A) **N** = no braid
Jacket Options	**D** = Thin-Wall Heatshrink (VG 95343 part 5 type D) **G** = Monofilament PEEK braid (102-051) **H** = Nomex® Braid (103-013) **J** = LSZH Heatshrink (-30°C to +105°C; VG 95343 part 5 type L) **N** = No Jacket
Backshell 1 Type	**T** = Straight Backshell **R** = 90° Backshell **F** = 45° Backshell **0** = no backshell
Wire Exit Direction	**L** = in direction of long row of D-form **S** = in direction of short row of D-form (for straight or no backshell, **L** is the default)
Hardware Options 1	See Hardware Options Table
Connector 2 Type	**FP** = Plug **FPE** = Plug Environmental **FR** = Receptacle **FRP** = Rear Panel Mount Receptacle
Backshell 2 Type*	**T** = Straight Backshell **R** = 90° Backshell **F** = 45° Backshell **0** = no backshell
Wire Exit Direction*	**L** = in direction of long row of D-form **S** = in direction of short row of D-form
Hardware Options 2*	See Hardware Options Table
Shell Material / Finish	**-2** = Aluminum / Electroless Nickel **-3** = Stainless Steel / Passivated **-5** = Aluminum / Gold **-6** = Aluminum / Alochromate **-7** = Aluminum / Nickel-PTFE **-8** = Aluminum / Zinc-Nickel, Black
Overall Length	mm (metric)
Gasket Material for FPE and FRP*	**-1** = Fluorosilicone **-2** = Passivated silver-plated aluminum-filled fluorosilicone **-3** = Nickel-plated aluminum-filled fluorosilicone

* - Omit if not used

Coax and combo coax single-ended flying lead pigtail assemblies
Shielded and unshielded • plug or receptacle

Flying lead Coax cable assemblies provide a flexible solution for easy on-site installation. Assemblies are supplied with GMMD plug or receptacle on one end in a choice of any Coax or combo contact arrangement. Environmental seal options are available for plug connectors. 50Ω and 75Ω Coax cable may be ordered in flexible or semi-rigid configurations. Signal cable available in 24 – 30 AWG. EMI shielded with five optional braid materials, including Glenair Signature weight-saving composite microfilament AmberStrand or microfilament stainless steel ArmorLite. Outer jacket options available for environmental and abrasion protection. Integral backshell, hardware, and wire exit direction all fully customizable. Consult factory for space-flight specific applications.

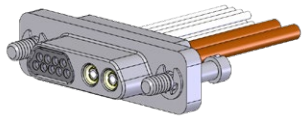
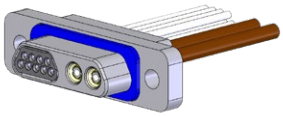
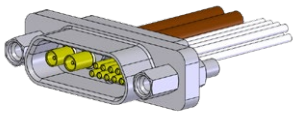
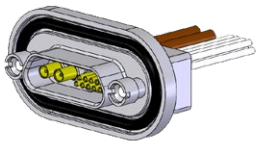
HOW TO ORDER

Sample Part Number	**GMMD**	**-FPE**	**2C9**	**-A**	**M**	**A**	**N**	**R**	**L**	**5**	**0**	**2**	**-800**
Series	**GMMD** = Glenair Modular High-Speed Micro-D												
Connector 1 Type	**FP** = Plug **FPE** = Plug Environmental **FR** = Flying Lead Receptacle **FRP** = Rear Panel Mount Flying Lead Receptacle												
Contact Arrangement	See Table. Consult factory for additional arrangements.												
Coax Cable	**-C** = 50Ω RG178 **-V** = 75Ω RG179 **-D** = 50Ω 047 Semi-Rigid **-W** = 75Ω Semi-Rigid **-E** = 50Ω 047 Flexible												
Signal Cables*	**L** = 24AWG M22759/33 wire **N** = 28AWG M22759/33 wire **M** = 26AWG M22759/33 wire **O** = 30AWG M22759/33 wire												
Shield Options	**A** = SnCu braid (100-001A) **B** = 100% AmberStrand (103-026) **C** = 100% ArmorLite (103-051) **E** = AgCu braid (100-002A) **F** = NiCu braid (100-003A) **N** = no braid												
Jacket Options	**D** = Thin-Wall Heatshrink (VG 95343 part 5 type D) **G** = Monofilament PEEK braid (102-051) **H** = Nomex® Braid (103-013) **J** = LSZH Heatshrink (-30°C to +105°C; VG 95343 part 5 type L) **N** = No Jacket												
Backshell Type	**T** = Straight Backshell **R** = 90° Backshell **F** = 45° Backshell **0** = no backshell												
Wire Exit Direction	**L** = in direction of long row of D-form **S** = in direction of short row of D-form (for straight or no backshell, **L** is the default)												
Hardware Options	See Hardware Options Table												
[no second connector]	**0**												
Shell Material / Finish	**-2** = Aluminum / Electroless Nickel **-3** = Stainless Steel / Passivated **-5** = Aluminum / Gold **-6** = Aluminum / Alochromate **-7** = Aluminum / Nickel-PTFE **-8** = Aluminum / Zinc-Nickel, Black												
Overall Length	mm (metric)												
Gasket Material for FPE and FRP*	**-1** = Fluorosilicone **-2** = Passivated silver-plated aluminum-filled fluorosilicone **-3** = Nickel-plated aluminum-filled fluorosilicone												

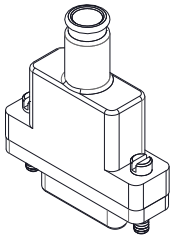
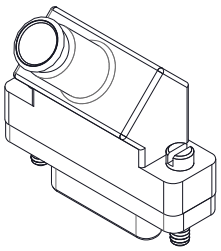
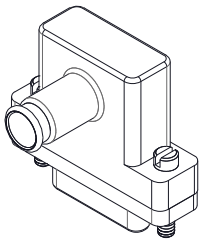
* - Omit if not used

Coax and combo coax jumpers and pigtails
Selection guide • plug backshell options • hardware

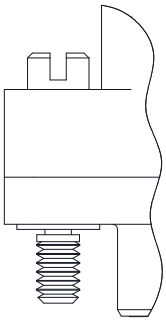
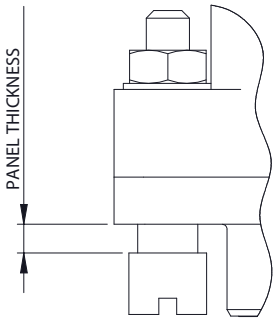
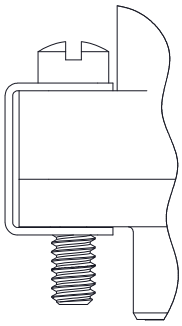
COAX AND COMBO COAX CABLE ASSEMBLY CONNECTOR SELECTION GUIDE

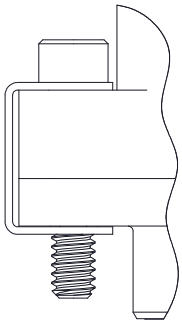
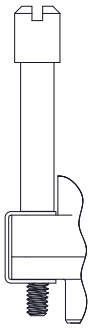
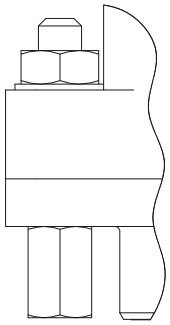
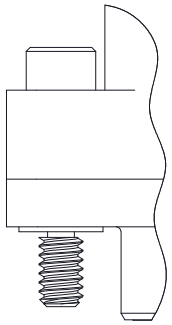
			
GMMD-FP Cable Plug	**GMMD-FPE** Cable Plug, Environmental	**GMMD-FR** Cable Receptacle	**GMMD-FRP** Rear Panel Mount Cable Receptacle

PLUG BACKSHELL OPTIONS

		
GMMD-*-T** Top Entry	**GMMD-***-F** 45° Entry	**GMMD-***-R** 90° Side Entry

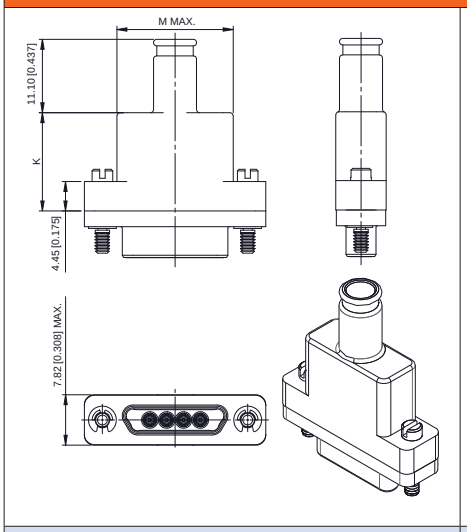
HARDWARE OPTIONS (BACKSHELLS SHOWN FOR REFERENCE ONLY)

		
1 - Circlip-Retained Jackscrew	Rear Panel Mount Jackpost Nut (specify letter for panel thickness) **T**=2.4 **U**=2.0 **V**=1.6 **W**=1.2 **X**=0.8 **Y**=0.6	**3** - Clip-Retained Fillister Head Jackscrew

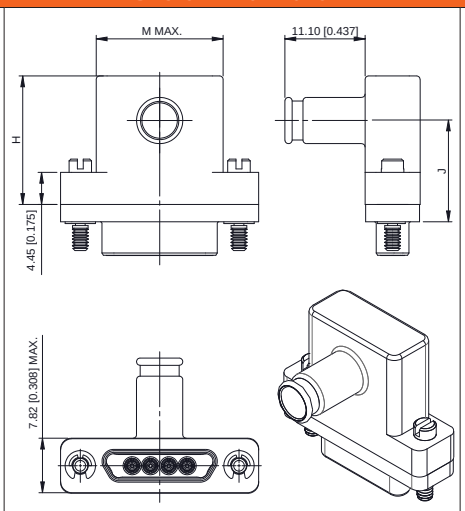
			
4 - Clip-Retained Socket Head Jackscrew	**5** - Clip-Retained Extended Jackscrew	**S** - Hexagonal Jackpost, Nut and Spring Washer	**7** - Circlip-retained socket head jackscrew

Coax and combo coax jumpers and pigtails
Backshell dimensional details

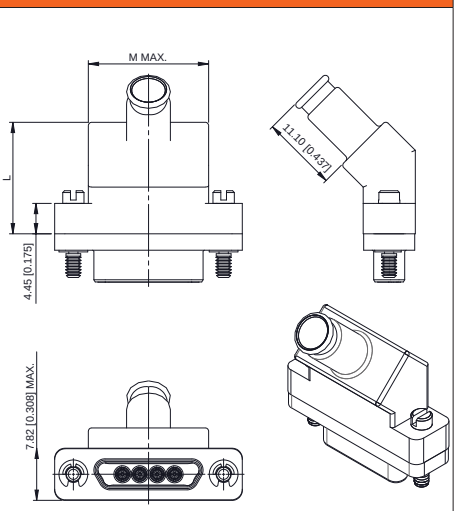
BACKSHELL OPTIONS



Type T - Straight



Type R - Right Angle



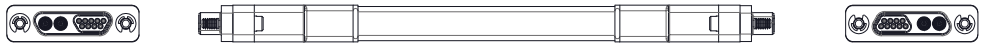
Type F -45° Angle

PLUG AND BACKSHELL DIMENSIONS

Shell size	H (mm)	J (mm)	K (mm)	L (mm)	M (mm)
9	16.20	11.10	8.90	15.01	10.16
15	17.10	11.20	11.95	16.01	13.97
21	18.00	11.70	15.00	16.76	17.78
25	19.00	12.30	16.50	16.81	20.32
31	19.20	12.10	18.00	16.84	27.94
37	19.70	12.10	19.00	17.24	36.83
51-2	21.80	13.90	19.80	17.24	47.18
67	21.80	13.90	19.80	18.86	57.34

Coax and combo coax jumpers and pigtails
Cable configurations

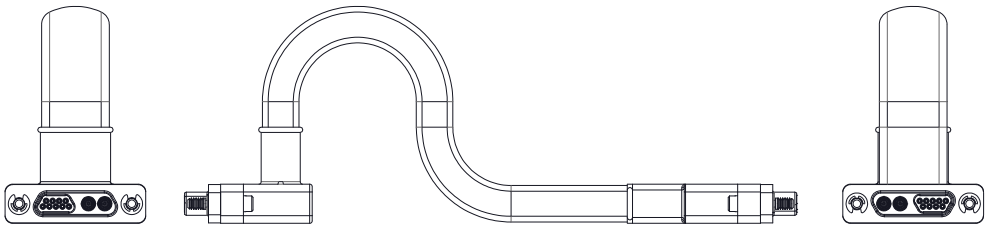
Straight-to-Straight



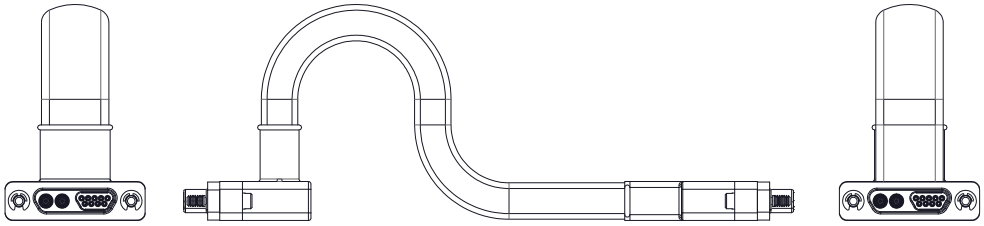
TL-TS

TL-TL

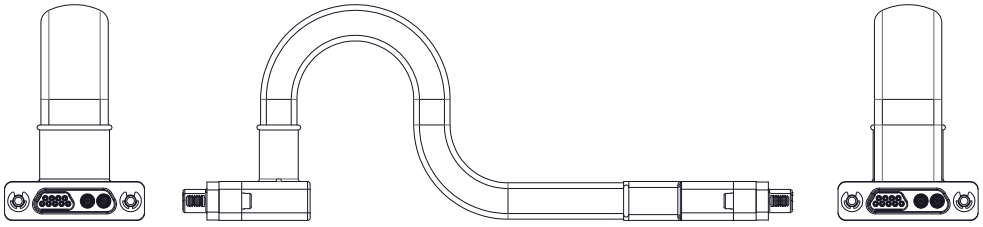
Right Angle-to-Straight



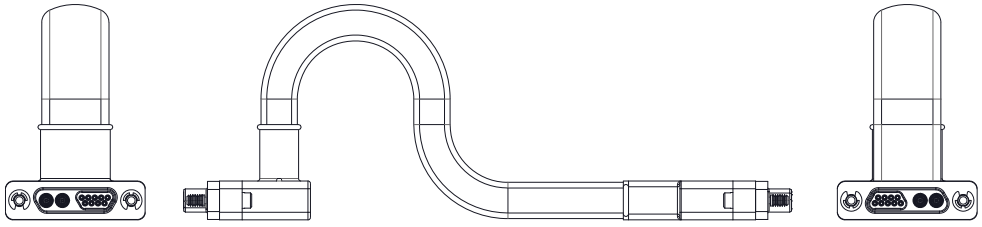
RS-TL



RL-TL



RS-TS



RL-TS

Coax and combo coax jumpers and pigtails
Cable configurations

Right Angle-to-Right Angle

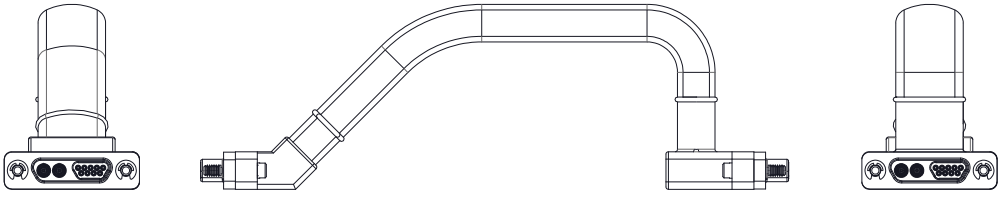
RL-RL

RL-RS

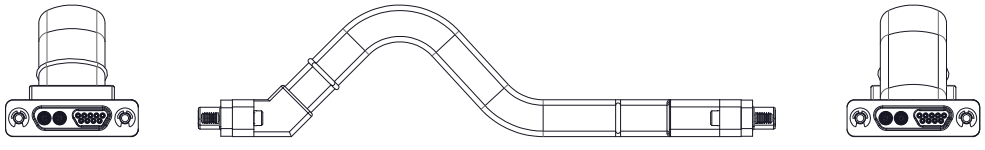
RS-RS

45°-to-Right Angle and Straight

FL-FS



FL-RL



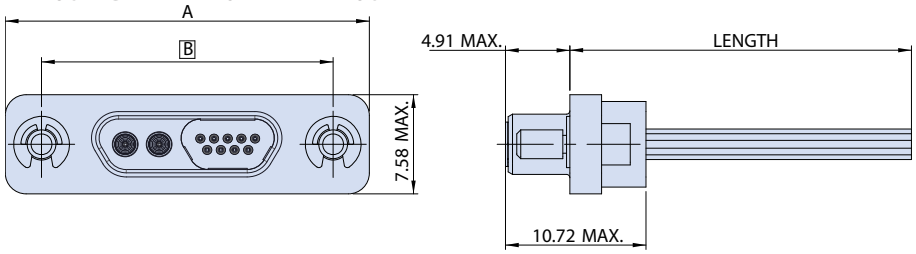
FL-TL

Coax and combo coax jumpers and pigtails
Plug-to-plug • plug-to-receptacle • receptacle-to-receptacle

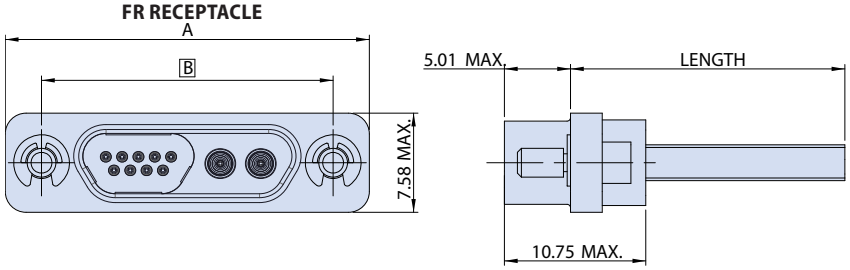
GMMD FLYING LEAD CABLE ASSEMBLY CONNECTOR DIMENSIONS

Shell size	A (mm)	B (mm)
9	19.84	14.35
15	23.65	18.16
21	27.46	21.97
25	30.00	24.51
31	33.81	28.32
37	37.62	32.13
51-2	46.51	41.02
67	56.67	51.18

FP PLUG AND FPE ENVIRONMENTAL PLUG

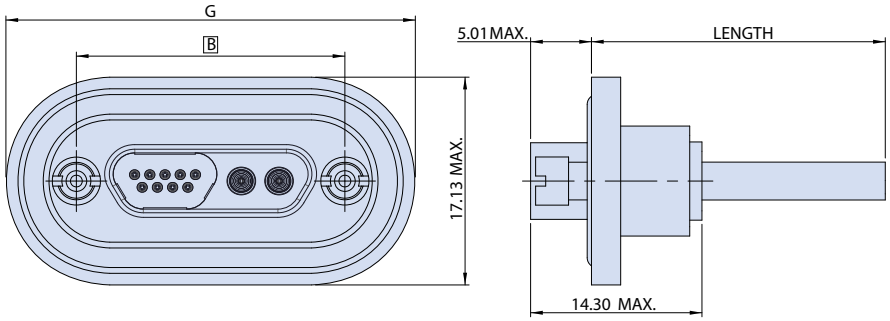


FR RECEPTACLE



Shell size	B (mm)	G (mm)
9	14.35	25.88
15	18.16	29.69
21	21.97	33.50
25	24.51	36.04
31	28.32	39.85
37	32.13	43.66
51-2	41.02	52.55
67	51.18	62.71

FRP REAR PANEL MOUNT RECEPTACLE



GMMD COAX AND COMBO COAX CONTACT ARRANGEMENTS (additional arrangements are available, consult factory)

Contact Arrangement	**2C**	**4C**	**6C**
Shell Size	9	21	25
No. / type of contacts	2 X 50Ω Coax	4X 50Ω Coax	6X 50Ω Coax

Contact Arrangement	**8C**	**16C**
Shell Size	31	67
No. / type of contacts	8 X 50Ω Coax	16X 50Ω Coax

Contact Arrangement	**1C9**	**2C9**	**1V9**	**2V9**	**4V**
Shell Size	15	21	21	31	21
No. / type of contacts	1 X 50Ω Coax 9 X #24	2X 50Ω Coax, 9 X #24	1 X 75Ω Coax, 9 X #24	2 X 75Ω Coax, 9 X #24	4 X 75Ω Coax

GMMD Plug-to-Coax contact jumper assembly for inside-the-box coax contact connectivity

GMMD Plug-to-Coax contact jumpers provide a turnkey solution for inside-the-box coax contact connectivity. Sixteen contact arrangements in eight shell sizes are offered for Size #8 BMB, Size #12 SMPM, or Size #16 SMPS Coax contacts, with three cable type options.

HOW TO ORDER

Sample Part Number	GMMD	-FPCC	2C	-E	-SMPM	-S	-2	-150

Series	**GMMD** = Glenair Modular High-Speed Micro-D
GMMD Connector	**-FPCC** = Plug
Contact Arrangement	See Table.
Coax Cable Type (see Compatibility table)	**-D** = 962-014-047 Semi-Rigid 50Ω Coax **-E** = 047 Flexible 50Ω Coax
Coax Contact Type (see Compatibility table)	**-BMB** = #8 Pin **-SMPM** = #12 Pin **-SMPS** = #16 Pin
Coax Contact Orientation	**S** = Straight
Shell Material / Finish	**2** = Aluminum / Electroless Nickel
Flying Lead Length	mm (metric). e.g. **-150** = 150mm (see length tolerance table)

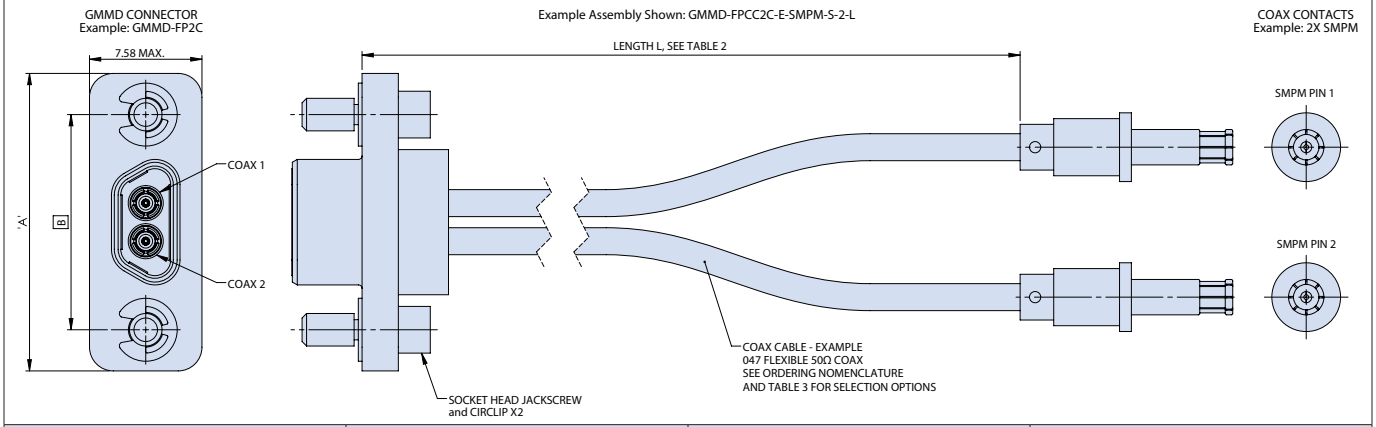
FLYING LEAD LENGTH TOLERANCE PER IPC 620

<0.3m [<1.0 ft]	+25mm -0mm [+0.98" -0"]
>0.3m - 1.5m [>1.0 ft - 4.9 ft]	+50mm -0mm [+1.96" -0"]
>1.5m - 3.0m [>4.9 ft - 9.8 ft]	+100mm -0mm [+3.94" -0"]
>3.0m - 7.5m [>9.8 ft - 24.6 ft]	+150mm -0mm [+5.91" -0"]
>7.5m [>24.6ft]	+5% - 0%

COAX CABLE / CONTACT COMPATIBILITY

Coax Contact Type	Coax Cable Type		
	-D = 962-014-047 Semi-Rigid 50Ω Coax	**-E** = 047 Flexible 50Ω Coax	**-F** = 962-010-405 Flexible 50Ω Coax
-BMB #8 Pin	852-071-06	852-071-06	852-071-05
-SMPM #12 Pin	852-099-03	852-099-03	852-099-01
-SMPS #16 Pin	852-133-01	852-133-01	N/A

CONTACT ARRANGEMENTS / DIMENSIONS



COAX COUNT	SHELL SIZE	A MAX.	B
1C,2C	9	19.89 [0.782]	14.35 [0.565]
3C	15	23.70 [0.932]	18.16 [0.715]
4C,5C	21	27.51 [1.082]	21.97 [0.865]
6C	25	30.05 [1.182]	24.51 [0.965]
7C	31	33.86 [1.332]	28.32 [1.115]
8C,9C	37	37.67 [1.482]	32.13 [1.265]
10C,11C,12C	51-2	46.56 [1.832]	41.02 [1.615]
13C,14C,15C,16C	67	56.72 [2.232]	46.48 [1.830