



Introduction

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LC and LT series connectors are large, high-voltage connectors with 50 ohm impedance, designed to MIL-PRF-39012 and MIL-DTL-3650 requirements.

LC and LT series both have 1.25-18 mating threads and are similar in overall size, but do not mate with each other. LC connectors have a frequency range of DC-1 GHz; LT connectors have a frequency range of DC-2.5 GHz. LC and LT series both have a 5,000 V peak voltage rating.

High-voltage versions of LC connectors have counterbored, overlapping insulators for a peak voltage of 10,000 V. Plugs which use the cable conductor as the center contact must have the cable dielectric counterbored to mate with high-voltage jacks (see interface drawings for dimensions).

LC-2 connectors are larger versions of LC, with 1.75-16 mating threads and voltage rating in excess of 10,000 V.

The mating surfaces of all insulators must be coated with Dow Corning DC-4 or other silicone ignition compound per SAE-AS8660 in order to achieve the rated voltage capability.

All have safety-wire holes in plug coupling nuts to prevent loosening of mated pairs.

Important Note: *Not all LC plugs mate with all LC jacks, particularly older UG configurations. Please contact the factory to confirm the compatibility of mating pairs before ordering.*

The LC and LT cable connectors in this section have V-Groove cable clamping, unless otherwise noted.

LC and LT connectors with **aluminum bodies** can provide significant weight savings and are readily available, as are versions with polyethylene insulators.

Notes:

The standard LC and LT connectors in this section have silver-plated bodies and center contacts. All are available with other platings if required.

Drawings in this section are approximately 80% of actual size; some drawing proportions may be altered to better illustrate details.

Drawing dimensions are in inches (millimeters), based on one inch = 25.4 mm.

Specifications (MIL-PRF-39012 and / or MIL-DTL-3650; MIL-STD-202 test methods)

Electrical:

Frequency Range: DC-1 GHz (LC); DC-2.5 GHz (LT). **Impedance:** 50 ohms.

Voltage Rating: 3,000 V RMS (LC and LT);
5,000 V RMS (High-voltage LC and LC-2).

Insulation Resistance: 5,000 megohms min. (Method 302, condition B).

VSWR: Varies with configuration.

Insertion Loss: Varies with configuration.

Mechanical:

Coupling Nut Retention: 100 pounds.

Cable Retention: Dependent upon cable.

Mating Characteristics: Per MIL-STD-348 and MIL-DTL-3650.

Durability: 500 mating cycles @ 12 cycles per minute max.

Environmental:

Vibration: Method 204, Condition B. **Shock:** Method 213, condition I.

Temperature Range: -65° to 165°C. **Moisture Resistance:** Method 106;.

Corrosion: Method 101, condition B.

Materials (unless otherwise noted):

Female Center Contacts, Plug Outer Contacts: Beryllium copper.

Bodies and Other Metal Parts: Brass.

Insulators: Teflon (TFE). **Gaskets:** Silicone rubber.

Plating:

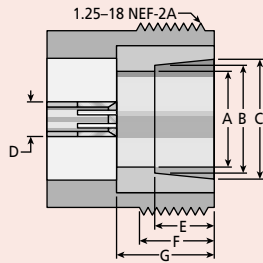
All Metal Parts: Silver plated per current MIL-PRF-39012 or MIL-DTL-3650 requirements.

Note: These specifications are typical, and may not apply to all configurations. Specifications may change as MIL specifications are updated.

Interface Dimensions and Specifications

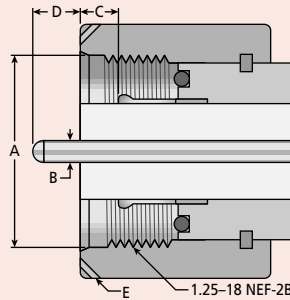
Interface Dimensions—LC Standard

Jack Interface



Dimensions	
A	ø.695 ±.002 (17.7)
B	ø.789 ±.001 (20.0)
C	ø.810 ±.004 (20.6)
D	ø.228 ±.001 (5.8)
E	.375 ±.002 (9.5)
F	.500 ±.016 (12.7)
G	.625 ±.002 (15.9)

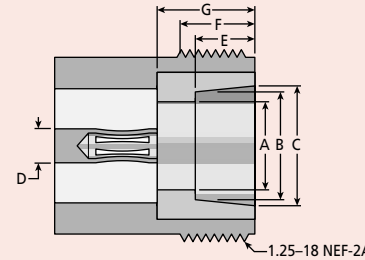
Plug Interface



Dimensions	
A	ø1.281 ±.005 (32.5)
B	ø.188 (4.8)
C	ø.250 ±.016 (6.4)
D	ø.375 ±.125 (9.5)
E	ø.031 x 45° (.8)

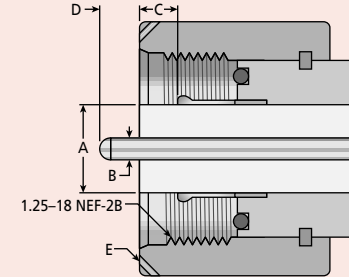
Interface Dimensions—LT

Jack Interface



Dimensions	
A	ø.622 ±.001 (15.8)
B	ø.789 ±.001 (20.0)
C	ø.802 ±.004 (20.4)
D	ø.218 ±.001 (5.5)
E	.375 ±.001 (9.5)
F	.562 (14.2)
G	.621 ±.003 (15.8)

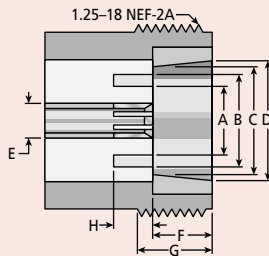
Plug Interface



Dimensions	
A	ø.620 ±.002 (15.7)
B	ø.187 ±.001 (4.7)
C	ø.250 ±.016 (6.4)
D	ø.484 ±.016 (12.3)
E	ø.040 x 45° (1.0)

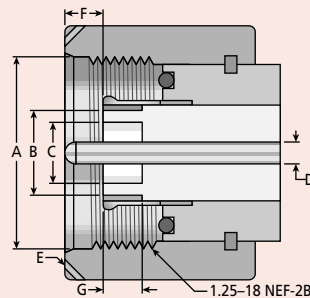
Interface Dimensions—LC High-Voltage

Jack Interface



Dimensions	
A	ø.435 ±.002 (11.0)
B	ø.697 ±.002 (17.7)
C	ø.789 ±.001 (20.0)
D	ø.810 ±.004 (20.6)
E	ø.228 ±.001 (5.8)
F	.375 ±.002 (9.5)
G	.500 ±.016 (12.7)
H	.250 ±.002 (6.4)

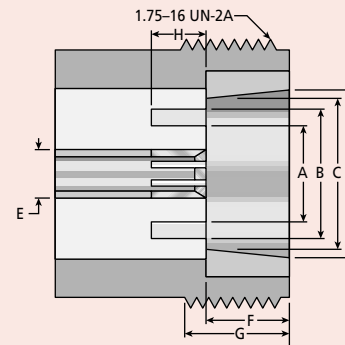
Plug Interface



Dimensions	
A	ø1.281 ±.005 (32.5)
B	ø.697 ±.002 (17.7)
C	ø.435 ±.002 (11.0)
D	ø.188 (4.8)
E	ø.031 x 45° (.8)
F	.250 ±.016 (6.4)
G	.250 ±.002 (6.4)

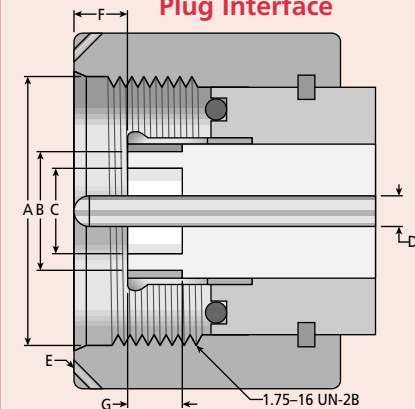
Interface Dimensions—LC-2

Jack Interface



Dimensions	
A	ø.623 ±.002 (15.8)
B	ø.932 ±.002 (23.7)
C	ø1.055 ±.001 (26.8)
D	ø1.088 ±.005 (27.6)
E	ø.305 ±.001 (7.7)
F	.375 ±.002 (9.5)
G	.625 ±.016 (15.9)
H	.375 ±.002 (9.5)

Plug Interface



Dimensions	
A	ø1.781 ±.016 (45.2)
B	ø.932 ±.002 (23.7)
C	ø.623 ±.002 (15.8)
D	ø.265 (6.7)
E	ø.031 x 45° (.8)
F	.375 ±.016 (9.5)
G	.375 ±.002 (9.5)



Straight Cable Plugs

Cable Group	LC Straight Plug—V-Groove			Figure
	Captive Contact	A	B	
CF-22	301-E1100A	2.8 (71.1)	.81 (20.6)	1
CF-23	303-E1100A	3.4 (86.4)	.81 (20.6)	2
CF-26	311-E1100A	2.8 (71.1)	.81 (20.6)	1
CF-28	313-E1100A	3.4 (86.4)	.81 (20.6)	2
CF-34	700-E1070 ^(1,2)	2.6 (66.0)	1.31 (33.3)	3
CF-37	421-E1100A	2.7 (68.6)	1.00 (25.4)	1
CF-38	702-E1070 ^(1,2)	3.4 (86.4)	1.31 (33.3)	4
CF-40	423-E1100A	3.3 (83.8)	1.00 (25.4)	2
CF-41	601-E1100A	3.3 (69.9)	1.31 (33.3)	1
CF-42	603-E1100A	4.1(104.1)	1.31 (33.3)	2

Cable Group	LT Straight Plug—V-Groove			Figure
	Captive Contact	A	B	
CF-22	301-G1100A	2.8 (71.1)	.81 (20.6)	1
CF-23	303-G1100A	3.4 (86.4)	.81 (20.6)	2
CF-26	311-G1100A	2.8 (71.1)	.81 (20.6)	1
CF-28	313-G1100A	3.4 (86.4)	.81 (20.6)	2
CF-34	700-G1070 ^(1,2)	2.6 (66.0)	1.31 (33.3)	3
CF-37	421-G1100A	2.7 (68.6)	1.00 (25.4)	1
CF-38	702-G1070 ^(1,2)	3.4 (86.4)	1.31 (33.3)	4
CF-40	423-G1100A	3.3 (83.8)	1.00 (25.4)	2
CF-41	601-G1100A	3.3 (69.9)	1.31 (33.3)	1
CF-42	603-G1100A	4.1(104.1)	1.31 (33.3)	2

Cable Group	LC-2 Straight Plug			Figure
	Captive Contact	A	B	
CF-39	802-F1570 ^(1,2,3)	2.75 (69.9)	.81 (20.6)	5

Notes:

- 1: Uses cable center conductor as contact. If mated with high-voltage jacks, the cable dielectric must be counterbored (see interface drawing for dimensions).
 - 2: Available as UG type (see index).
 - 3: Sleeve-type cable attachment.
- All items have silver-plated bodies and contacts.
For nickel-plated body, add K at beginning of part number.
 - See page 10 for cable groups. Available for many other cable types.
 - See page 11 for description and illustration of cable attachment type.

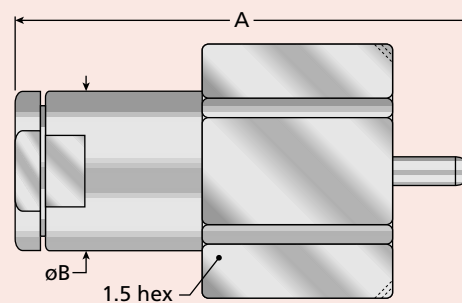


Figure 1

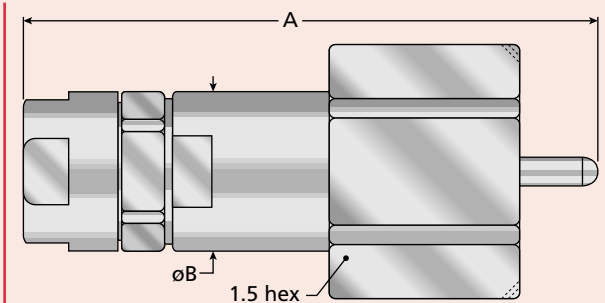


Figure 2

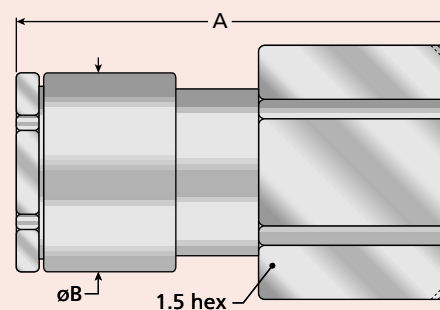


Figure 3

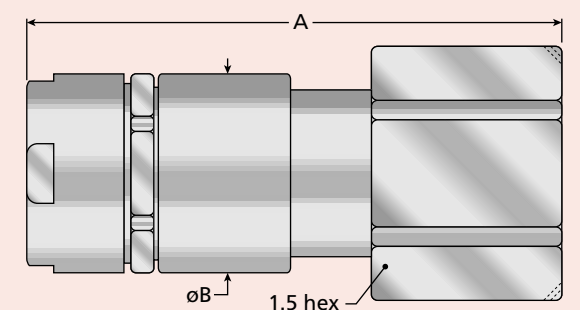


Figure 4

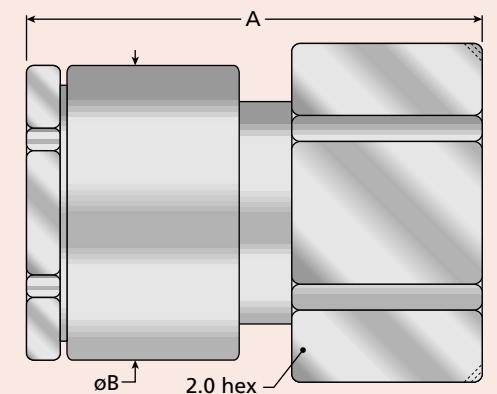
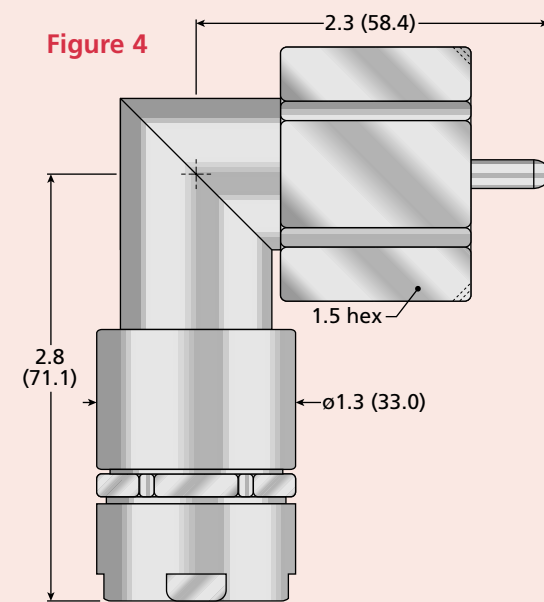
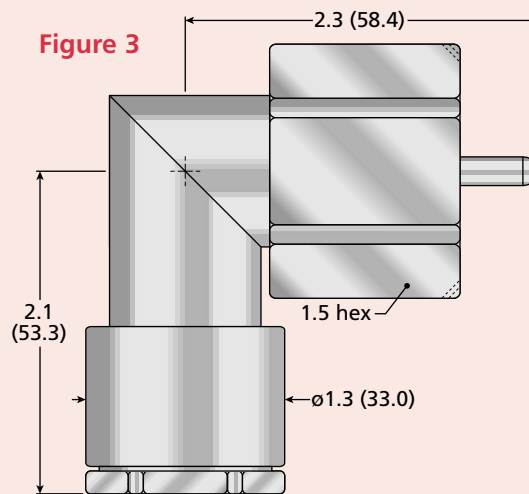
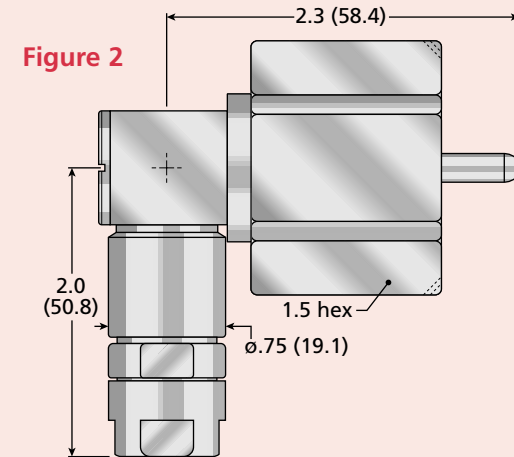
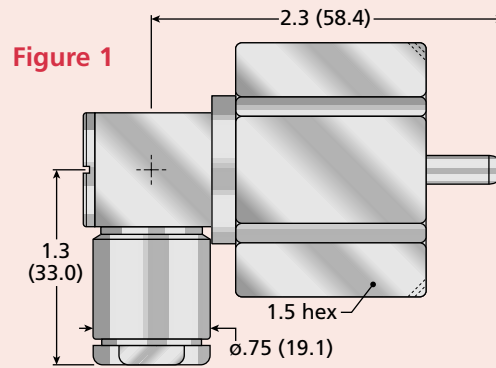


Figure 5

Right Angle Cable Plugs

LC Right Angle Plug—V-Groove		
Cable Group	Captive Contact	Figure
CF-22	301-E2100A	1
CF-23	303-E2100A	2
CF-26	311-E2100A	1
CF-28	313-E2100A	2
CF-41	601-E2100N	1
CF-42	603-E2100N	2

LT Right Angle Plug—V-Groove		
Cable Group	Captive Contact	Figure
CF-22	301-G2100A	1
CF-23	303-G2100A	2
CF-26	311-G2100A	1
CF-28	313-G2100A	2
CF-41	601-G2100N	1
CF-42	603-G2100N	2



- All items have silver-plated bodies and contacts. For nickel-plated body, add K at beginning of part number.
- See page 10 for cable groups. Available for many other cable types.
- See page 11 for description and illustration of cable attachment type.



Straight and Panel Mounted Cable Jacks

Cable Group	LC Straight Jack—V-Groove			Figure
	Captive Contact	A	B	
CF-22	301-E3100A	2.3 (58.4)	.81 (20.6)	1
CF-23	303-E3100A	3.0 (76.2)	.81 (20.6)	2
CF-37	421-E3100A	2.4 (70.0)	1.00 (25.4)	1
CF-40	423-E3100A	3.2 (81.3)	1.00 (25.4)	2
CF-41	601-E3100A	2.5 (63.5)	1.31 (33.3)	1
CF-42	603-E3100A	3.4 (86.4)	1.31 (33.3)	2

Cable Group	LT Straight Jack—V-Groove			Figure
	Captive Contact	A	B	
CF-22	301-G3100A	2.3 (58.4)	.81 (20.6)	1
CF-23	303-G3100A	3.0 (76.2)	.81 (20.6)	2
CF-37	421-G3100A	2.4 (70.0)	1.00 (25.4)	1
CF-40	423-G3100A	3.2 (81.3)	1.00 (25.4)	2
CF-41	601-G3100A	2.5 (63.5)	1.31 (33.3)	1
CF-42	603-G3100A	3.4 (86.4)	1.31 (33.3)	2

Cable Group	LC Panel Jack—V-Groove			Figure
	Captive Contact	A	B	
CF-22	301-E3100A-45	2.3 (58.4)	.81 (20.6)	3
CF-23	303-E3100A-45	3.0 (76.2)	.81 (20.6)	4
CF-37	421-E3100A-45	2.4 (70.0)	1.00 (25.4)	3
CF-40	423-E3100A-45	3.2 (81.3)	1.00 (25.4)	4
CF-41	601-E3100A-45	2.5 (63.5)	1.31 (33.3)	3
CF-42	603-E3100A-45	3.4 (86.4)	1.31 (33.3)	4

Cable Group	LT Panel Jack—V-Groove			Figure
	Captive Contact	A	B	
CF-22	301-G3100A-45	2.3 (58.4)	.81 (20.6)	3
CF-23	303-G3100A-45	3.0 (76.2)	.81 (20.6)	4
CF-37	421-G3100A-45	2.4 (70.0)	1.00 (25.4)	3
CF-40	423-G3100A-45	3.2 (81.3)	1.00 (25.4)	4
CF-41	601-G3100A-45	2.5 (63.5)	1.31 (33.3)	3
CF-42	603-G3100A-45	3.4 (86.4)	1.31 (33.3)	4

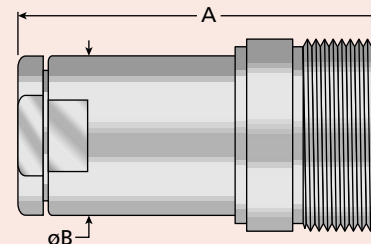


Figure 1

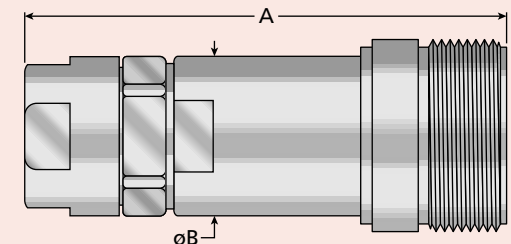


Figure 2

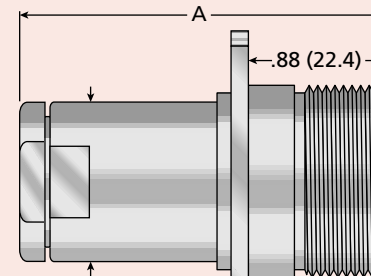


Figure 3

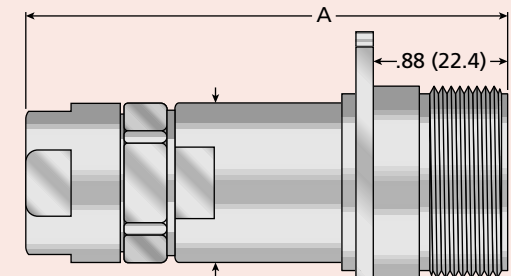
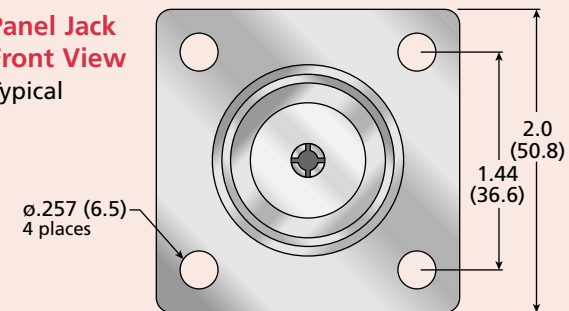


Figure 4

Panel Jack Front View Typical



- All items have silver-plated bodies and contacts. For nickel-plated body, add K at beginning of part number.
- See page 10 for cable groups. Available for many other cable types.
- See page 11 for description and illustration of cable attachment type.

Bulkhead Mounted Cable Jacks (Pressurized)

Cable Group	LC Bulkhead Jack—V-Groove			
	Captive Contact	A	B	Figure
CF-22	301-E3101A-98	3.3 (83.8)	.75 (19.1)	1
CF-23	303-E3101A-98	4.0 (101.6)	.75 (19.1)	2
CF-26	311-E3101A-98	3.3 (83.8)	.75 (19.1)	1
CF-28	313-E3101A-98	4.0 (101.6)	.75 (19.1)	2
CF-34	700-E3101A-98	3.6 (91.4)	1.31 (33.3)	1
CF-37	421-E3101A-98	3.4 (86.4)	.88 (22.4)	1
CF-38	702-E3101A-98	4.3 (109.2)	1.31 (33.3)	2
CF-40	423-E3101A-98	4.2 (106.7)	.88 (22.4)	2
CF-41	601-E3101A-98	3.6 (91.4)	1.31 (33.3)	1
CF-42	603-E3101A-98	4.3 (109.2)	1.31 (33.3)	2

Cable Group	LT Bulkhead Jack—V-Groove			
	Captive Contact	A	B	Figure
CF-22	301-G3101A-98	3.3 (83.8)	.75 (19.1)	1
CF-23	303-G3101A-98	4.0 (101.6)	.75 (19.1)	2
CF-26	311-G3101A-98	3.3 (83.8)	.75 (19.1)	1
CF-28	313-G3101A-98	4.0 (101.6)	.75 (19.1)	2
CF-34	700-G3101A-98	3.6 (91.4)	1.31 (33.3)	1
CF-37	421-G3101A-98	3.4 (86.4)	.88 (22.4)	1
CF-38	702-G3101A-98	4.3 (109.2)	1.31 (33.3)	2
CF-40	423-G3101A-98	4.2 (106.7)	.88 (22.4)	2
CF-41	601-G3101A-98	3.6 (91.4)	1.31 (33.3)	1
CF-42	603-G3101A-98	4.3 (109.2)	1.31 (33.3)	2

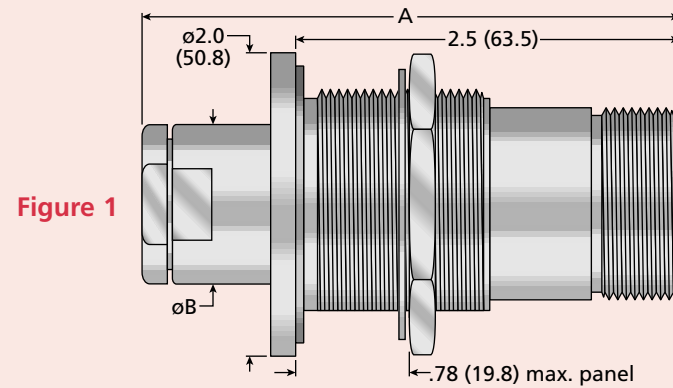


Figure 1

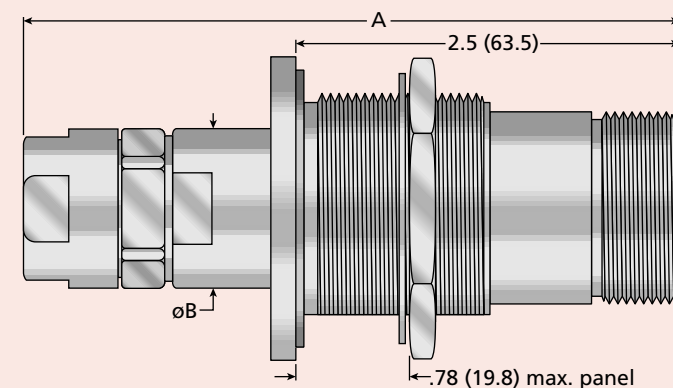
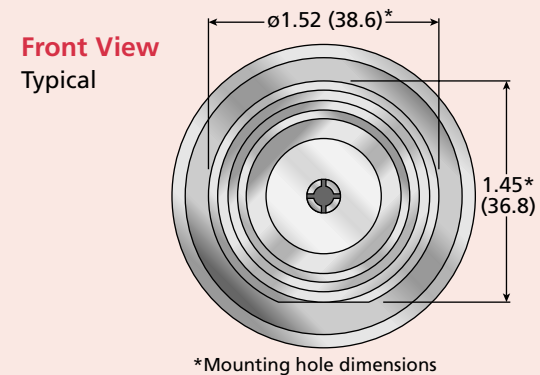


Figure 2



*Mounting hole dimensions

- All items have silver-plated bodies and contacts.
For nickel-plated body, add K at beginning of part number.
- See page 10 for cable groups.
Available for many other cable types.
- See page 11 for description and illustration of cable attachment type.



Panel Mounted Receptacles and Dust Caps

LC Panel Jack Receptacle (Pressurized)			
Figure	Flange	Max. Panel	Part Number
1	45	.23 (5.8)	45-E3001A†

LT Panel Jack Receptacle (Pressurized)			
Figure	Flange	Max. Panel	Part Number
1	45	.23 (5.8)	45-G3001

Dust Caps (Fit both LC and LT connectors)				
Figure	Mating	Dim. A	Chain	Part Number
1	Plug	4.0 (101.6)	Bead	1-E744
1	Plug	—	None	1-E700
1	Plug	4.0 (101.6)	Bead	2-E744†
1	Plug	—	None	2-E700†
2	Jack	9.0 (228.6)	Bead	3-E794
2	Jack	—	None	3-E700

* Shorting type.

Figure 1

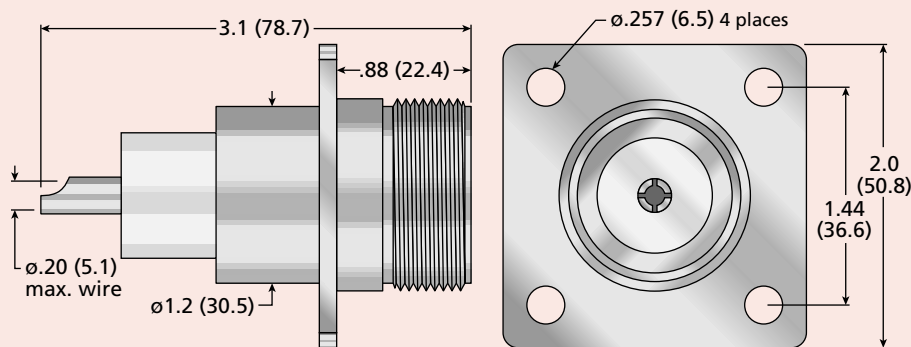


Figure 1

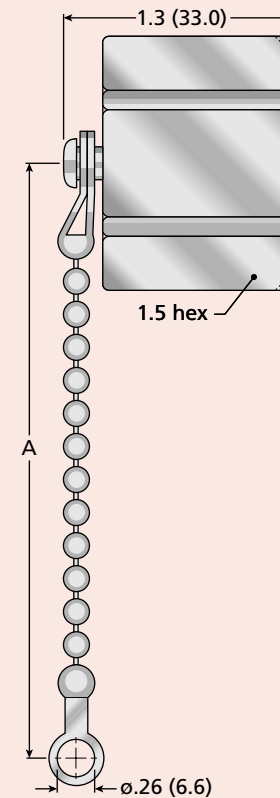
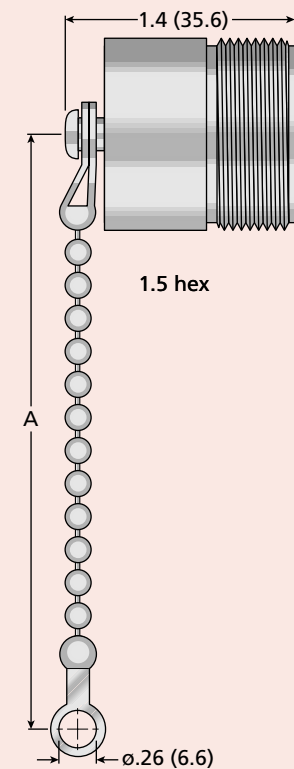


Figure 2



- All items have silver-plated bodies and contacts.
For nickel-plated body, add K at beginning of part number
- † Available as UG type (see index).
- Receptacles available with other flange sizes.
- Caps available with other chain types and lengths.

LC and LT Adapters Within Series

LC Straight Adapters		
Type	Figure	Part Number
Jack-Jack	1	E3005† E3003*†
Jack-Jack, bulkhead, pressurized	2	E3001-98
Jack-Jack, panel mounted	3	E3000-45†

LT Straight Adapters		
Type	Figure	Part Number
Jack-Jack	1	G3000†
Jack-Jack, bulkhead, pressurized	2	G3001-98
Jack-Jack, panel mounted	3	G3000-45

LC Right Angle Adapters		
Type	Figure	Part Number
Jack-Plug	4	E2100† E2103*†

LT Right Angle Adapter		
Type	Figure	Part Number
Jack-Plug	4	G2100†

- All items have silver-plated bodies and contacts.
For nickel-plated body, add K at beginning of part number.
- * High-Voltage type.
- † Available as UG type (see index).

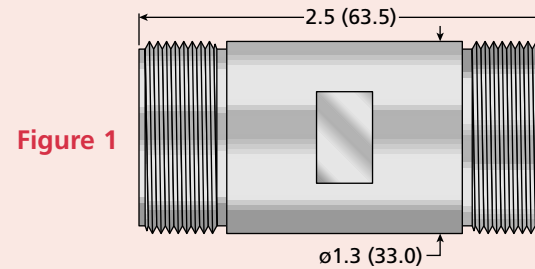


Figure 1

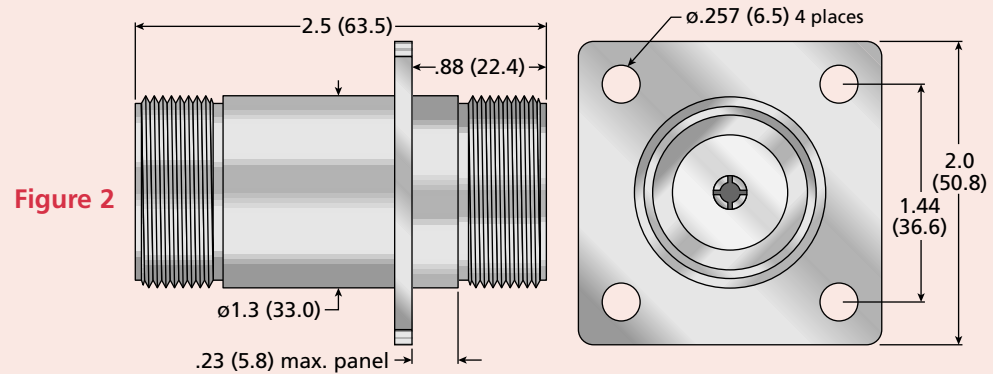


Figure 2

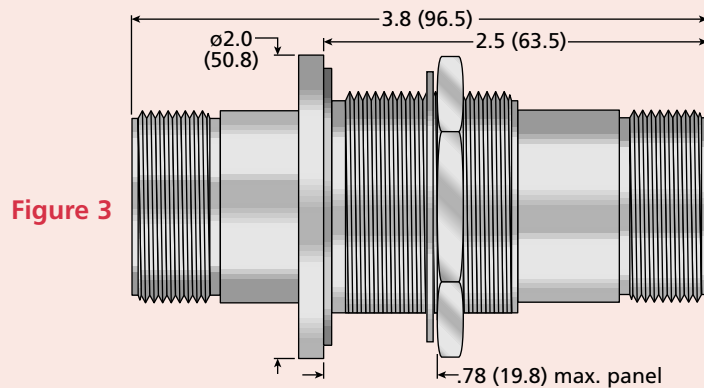


Figure 3

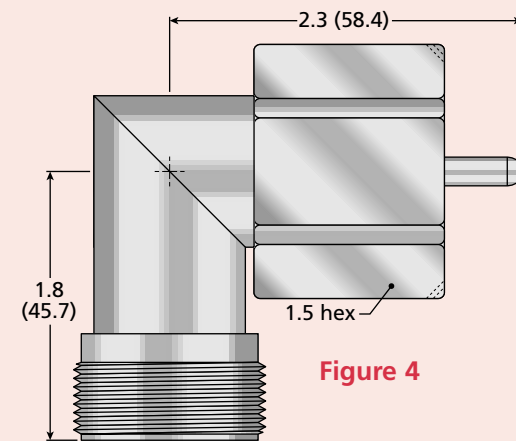
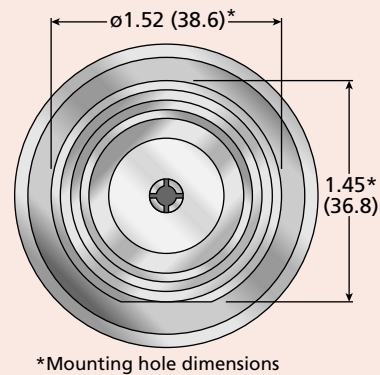


Figure 4



LC-2 Adapters

Straight Adapters		
Type	Figure	Part Number
LC Jack-LC-2 Jack	1	FE1108*†
LC Jack-LC-2 Plug	2	EF3008*†

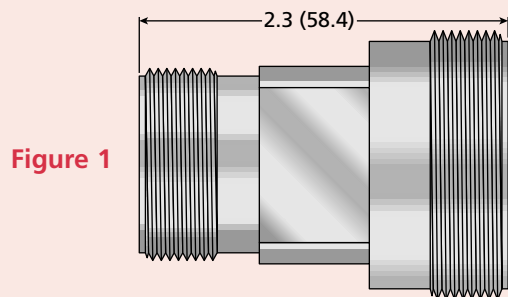


Figure 1

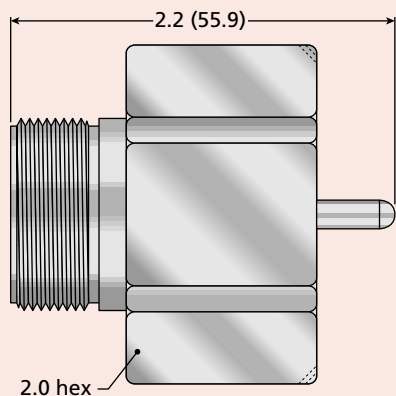


Figure 2

- All items have silver-plated bodies and contacts.
For nickel-plated body, add K at beginning of part number.
- * High-Voltage type.
- † Available as UG type (see index).

LC-2 to LC-2 Straight Adapters		
Type	Figure	Part Number
Jack-Jack	3	F3000†

LC-2 to LC-2 Right Angle Adapter		
Type	Figure	Part Number
Jack-Plug	4	F2100†

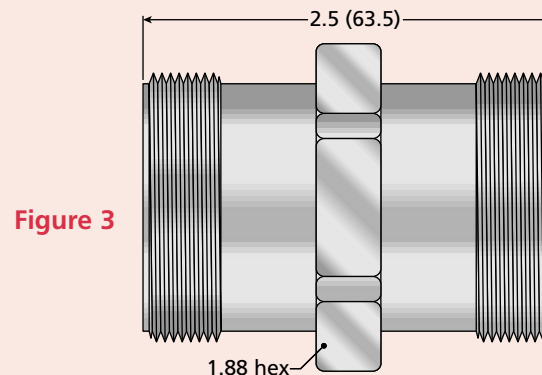


Figure 3

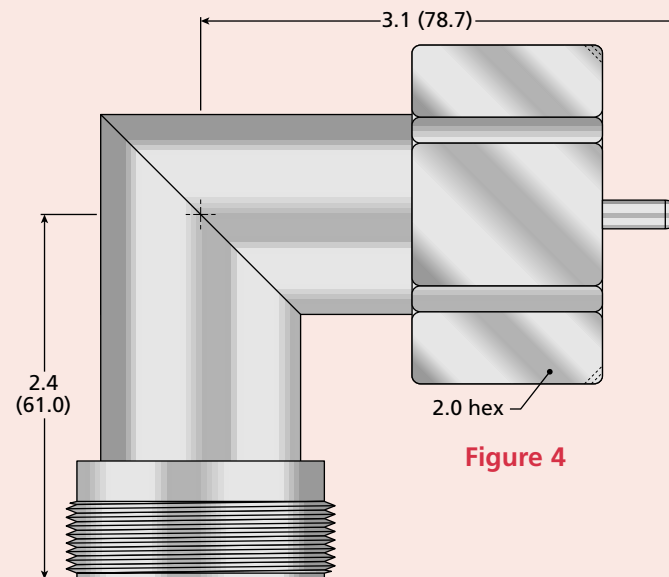


Figure 4



Cable Groups Listed by Cable Type

RG Cables*											
Type	Group	Type	Group	Type	Group	Type	Group	Type	Group	Type	Group
RG-5	CF-13	RG-21	CF-13	RG-62	CF-7	RG-140	CF-7	RG-178	CF-1	RG-214	CF-22
RG-6	CF-14	RG-22	TW-2	RG-63	CF-29	RG-141	CF-5	RG-179	CF-2	RG-215	CF-23
RG-7	CF-17	RG-30	CF-15	RG-65	CF-32	RG-142	CF-6	RG-180	CF-3	RG-216	CF-26
RG-8	CF-22	RG-31	CF-22	RG-71	CF-8	RG-144	CF-26	RG-187	CF-2	RG-217	CF-37
RG-9	CF-22	RG-32	CF-23	RG-79	CF-29	RG-148	CF-26	RG-188	CF-2	RG-218	CF-34
RG-10	CF-23	RG-35	CF-38	RG-83	CF-20	RG-149	CF-26	RG-188DS	CF-36	RG-219	CF-38
RG-11	CF-26	RG-38	CF-13	RG-87	CF-14	RG-150	CF-28	RG-189	CF-27	RG-221	CF-39
RG-12	CF-28	RG-39	CF-14	RG-94	CF-33	RG-156	CF-25	RG-195	CF-4	RG-222	CF-13
RG-13	CF-26	RG-41	CF-19	RG-108	TW-1	RG-161	CF-2	RG-196	CF-1	RG-223	CF-6
RG-14	CF-34	RG-54	CF-15	RG-115	CF-14	RG-164	CF-37	RG-210	CF-7	RG-224	CF-40
RG-17	CF-37	RG-55	CF-6	RG-115A	CF-18	RG-166	CF-23	RG-211	CF-41	RG-225	CF-22
RG-18	CF-38	RG-58	CF-5	RG-116	CF-23	RG-174	CF-2	RG-212	CF-13	RG-226	CF-35
RG-20	CF-39	RG-59	CF-7	RG-122	CF-9	RG-174DS	CF-36	RG-213	CF-22	RG-227	CF-23
										RG-228	CF-42
										RG-229	CF-23
										RG-235	CF-18
										RG-302	CF-11
										RG-303	CF-10
										RG-307	TR-1
										RG-316	CF-2
										RG-316DS	CF-36
										RG-393	CF-21
										RG-400	CF-6
										RG-402	SR-6
										RG-404	CF-1
										RG-405	SR-5

M17 Cables**									
Type	Group	Type	Group	Type	Group	Type	Group	Type	Group
M17/2	CF-14	M17/75	CF-22	M17/113	CF-2	M17/161-00002	CF-42	M17/182	TW-2
M17/6-RG11	CF-26	M17/77	CF-26	M17/116	TR-1	M17/162	CF-13	M17/183	CF-6
M17/6-RG12	CF-28	M17/78	CF-34	M17/119	CF-2	M17/163	CF-22	M17/184	CF-7
M17/15-RG22	TW-2	M17/81-00002	CF-39	M17/126	CF-26	M17/164	CF-22	M17/185	CF-7
M17/28	CF-5	M17/84	CF-6	M17/127	CF-21	M17/165	CF-40	M17/186	TW-1
M17/29	CF-7	M17/86-00001	CF-22	M17/128	CF-6	M17/166	CF-34	M17/187	CF-9
M17/30	CF-7	M17/86-00002	CF-23	M17/130	SR-6	M17/167	CF-6	M17/188	CF-13
M17/31	CF-29	M17/87	CF-33	M17/132	CF-1	M17/168	CF-17	M17/189	CF-23
M17/34	CF-32	M17/90	CF-8	M17/133	SR-5	M17/169	CF-1	M17/190	CF-22
M17/45	TW-1	M17/92	CF-17	M17/138	CF-2	M17/170	CF-10	M17/191	CF-26
M17/54	CF-9	M17/93	CF-1	M17/151	SR-2	M17/171	CF-12	M17/194	CF-6
M17/60	CF-6	M17/94	CF-2	M17/152	CF-36	M17/172	CF-2	M17/195	CF-8
M17/62	CF-26	M17/95	CF-3	M17/154	SR-1	M17/173	CF-2	M17/196	CF-2
M17/64	CF-37	M17/97	CF-7	M17/155	CF-5	M17/174	CF-21	M17/197	CF-6
M17/73	CF-13	M17/110	CF-11	M17/157	CF-9	M17/175	CF-6	M17/198	CF-9
M17/74-RG213	CF-22	M17/111	CF-10	M17/158	CF-6	M17/180	CF-14	M17/199	CF-13
M17/74-RG215	CF-23	M17/112	CF-12	M17/161-00001	CF-41	M17/181	CF-26	M17/200	CF-6

Semi-Rigid Cables by Outer Diameter											
Size	Group	Size	Group	Size	Group	Size	Group	Size	Group	Size	Group
.034"	SR-1	.047"	SR-2	.056"	SR-3	.070"	SR-4	.086"	SR-5	.141"	SR-6

*Unless otherwise noted, cable groups include all variants (A/U, B/U, etc.) of RG types. 'DS' indicates double-shielded version of RG cable.

**Unless otherwise noted, cable groups include all variants of M17 slash sheet indicated.

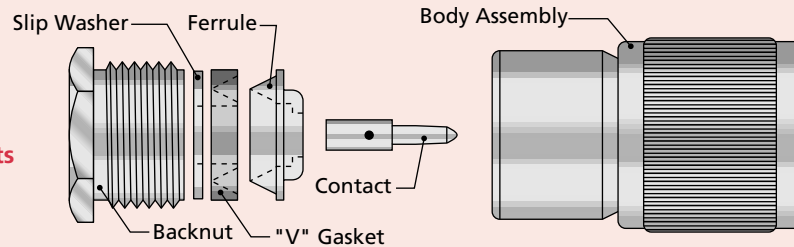
Construction codes: CF = Coaxial, Flexible; SR = Semi-Rigid; TR = Triaxial; TW = Twinaxial



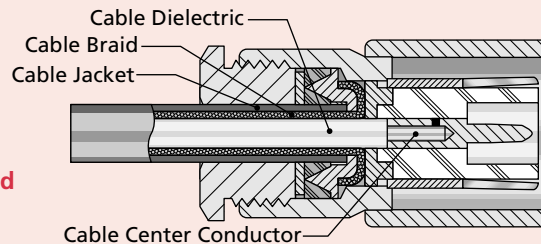
Cable Attachment Types—Flexible Cable

V-Groove—Non-Captive Contact

Connector Parts



As Assembled



V-Groove cable attachment is the standard for military UG-type connectors, and is field-replaceable with no special tools.

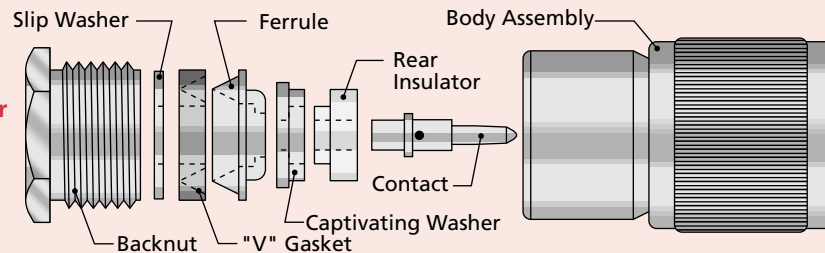
The cable is stripped, and the braid is combed out and folded back over the ferrule. The connector contact is soldered to the cable conductor.

The prepared cable, the V-gasket, and the slip washer are secured in the body assembly by tightening the backnut.

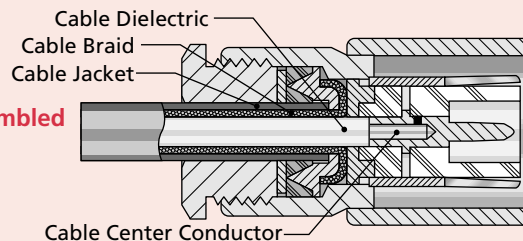
The slip washer prevents twisting the cable while the nut is being tightened, and the rear surface of the ferrule cuts through the V-gasket, providing metal-to-metal braid clamping as well as weatherproofing.

V-Groove—Captive Contact

Connector Parts



As Assembled



V-Groove clamping with a captive contact provides consistent axial contact location within the interface, and prevents movement of the contact from cable flexure or temperature changes after assembly.

The cable is stripped, and the braid is combed out and folded back over the ferrule. The connector contact is soldered to the cable conductor.

The prepared cable, the rear insulator and captivating washer, the V-gasket, and the slip washer are secured in the body assembly by tightening the backnut.

The slip washer prevents twisting the cable while the nut is being tightened, and the rear surface of the ferrule cuts through the V-gasket, providing metal-to-metal braid clamping as well as weatherproofing.

Many connectors with Captive Contact V-Groove cable attachment are qualified to MIL-PRF-39012, Category A (Field replaceable, no special tools required for assembly).