



Introduction

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HN series connectors are medium-large, high-voltage connectors with 50-ohm impedance, designed to MIL-PRF-39012 and MIL-DTL-3643 requirements.

Their threaded interface provides secure mating and unmating, and prevents accidental disconnection from pulling forces on the cable.

HN connectors have overlapping insulators with long creepage paths to achieve a voltage rating of 1,500 volts RMS, and up to 5,000 VDC peak.

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

The HN cable connectors in this section have V-Groove cable clamping, but are also available with many other cable attachment types for flexible and semi-rigid cable:

- **Standard and Improved Wedge-Lock;** our patented, quick assembly method for flexible cable incorporating a captive center contact, only three parts to handle, and requiring no special tools.
- **V-Groove** clamping with captive or noncaptive contacts for flexible cable, requiring no special tools for assembly.
- **Econo-Crimp** types with captive or noncaptive contacts for flexible cable, providing small size, light weight, and rapid assembly using standard, commercially-available crimp tools.
- **X-Crimp** with captive contacts for flexible cable, providing rugged, high-strength cable attachment and quick assembly.
- **Wedge-Eze** for flexible cable—our unique system featuring quick assembly, color coding by cable size, and field replaceability. Rapidly assembled with hand or automated tooling.

- **Solder-Clamp** assembly for semi-rigid cable requires no special tools and allows for re-orientation of the connector after assembly to easily conform to system layout. Collet type clamping for solderless attachment of semi-rigid cable is also available.

See page 15 for illustrations of V-Groove cable clamping. For details on other cable attachment types, download the file *AutoGlossary.pdf* from our website.

The versatility of HN series RF connectors is enhanced by Automatic's ability to provide a wide range of alternate constructions and configurations to meet virtually any system requirements. Contact us with your requirements for custom configurations, such as:

- **Polarized mating interfaces** with reversed contacts and insulators to prevent accidental mating of incompatible circuits.
- HN plug coupling nuts can be provided with **safety-wire holes** to prevent loosening of coupling nuts under severe vibration.
- HN connectors with **aluminum bodies** can provide significant weight savings.

Notes:

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

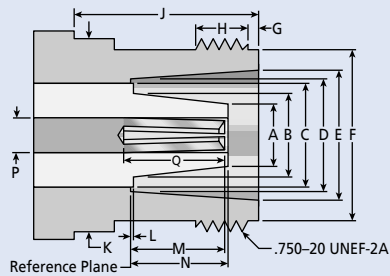
Drawings in this section are approximately actual size; some drawing proportions may be altered to better illustrate details.

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

Interface Dimensions and Specifications

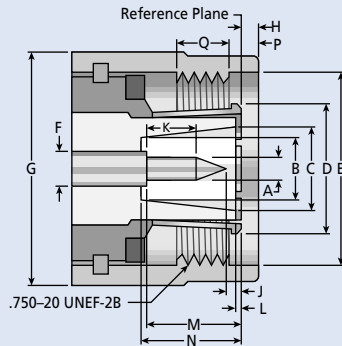
Interface Dimensions (MIL-STD-348)

Jack Interface



Dim.	Min.	Max.	Dim.	Min.	Max.	Dim.	Min.	Max.
A	—	.268 (6.8)	G	.077 (2.0)	.087 (2.2)	N	—	.368 (9.3)
B	—	.294 (7.5)	H	.359 (9.1)	—	P	—	.132 (3.4)
C	—	.430 (10.9)	J	.590 (15.0)	—			
D	.548 (13.9)	.553 (14.0)	K	—	.755 (19.2)			
E	.571 (14.5)	.578 (14.7)	L	—	.005 (.1)			
F	.662 (16.8)	.683 (17.3)	M	.328 (8.3)	.358 (9.1)			

Plug Interface



Dim.	Min.	Max.	Dim.	Min.	Max.	Dim.	Min.	Max.
A	.062 (1.6)	.066 (1.7)	G	—	.925 (23.5)	N	.368 (9.3)	—
B	.263 (6.7)	—	H	—	.058 (1.5)	P	.100 (2.5)	—
C	.289 (7.3)	—	J	.138 (3.5)	—	Q	.403 (10.2)	—
D	Gage Test	Gage Test	K	.120 (30.5)	—			
E	.760 (19.3)	—	L	.005 (.1)	—			
F	—	.132 (3.4)	M	.358 (9.1)	.388 (9.9)			

Specifications (MIL-PRF-39012 or MIL-DTL-3643)

Electrical:

Frequency Range: DC–10 GHz.

Impedance: 50 ohms.

Voltage Rating: 1,500 V RMS.

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

Dielectric Withstanding Voltage: 5,000 V RMS min. (Method 301).

VSWR: Varies with configuration; see MIL-PRF-39012 or MIL-DTL-3643 specification sheets.

Insertion Loss: Varies with configuration; see MIL-PRF-39012 or MIL-DTL-3643 specification sheets.

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.

Mechanical:

Coupling Nut Retention: 100 pounds.

Cable Retention: Dependent upon cable; see MIL-PRF-39012 or MIL-DTL-3643 specification sheet.

Mating Characteristics: Per MIL-STD-348.

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

Materials (unless otherwise noted):

Male Center Contacts: Brass.

Female Center Contacts, Plug Outer Contacts: Beryllium copper.

Bodies and Other Metal Parts: Brass.

Crimp Sleeves: Annealed brass or soft copper.

Insulators: Teflon (TFE).

Gaskets: Silicone rubber.

Plating:

Center Contacts: Silver plated per current MIL-DTL-3643 requirements.

Other Metal Parts: Silver plated per current MIL-DTL-3643 requirements.

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



Straight Cable Plugs

Cable Group	Straight Plug—V-Groove		Figure
	Non-captive Contact	Captive Contact	
CF-5, 6	100-H1000A	101-H1100A	1
CF-7, 8	150-H1000A	151-H1100A	1
CF-13	200-H1000A	201-H1100A	2
CF-14	210-H1000A	211-H1100A	2
CF-22	300-H1000A*	301-H1100A	2
CF-23	302-H1000A*	303-H1100A	3
CF-34	420-H1000A*	421-H1100A	2
CF-37	700-H1000A*	701-H1100A*	4
CF-38	702-H1000A*	703-H1100A	5
CF-40	422-H1000A	423-H1100A	3
CF-41	600-H1000A	601-H1100A	4
CF-42	602-H1000A*	603-H1100A	5

- All items have silver-plated bodies and contacts. For nickel-plated body, add K at beginning of part number.
- See page 14 for cable groups. Most types available for other cables not shown above.
- See page 15 for illustrations of V-Groove cable attachment.
- * Available as UG type.

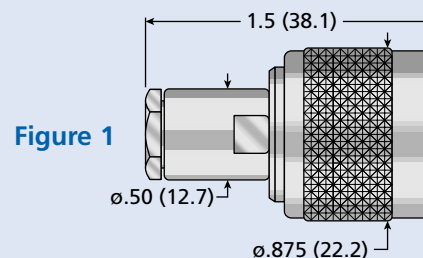


Figure 1

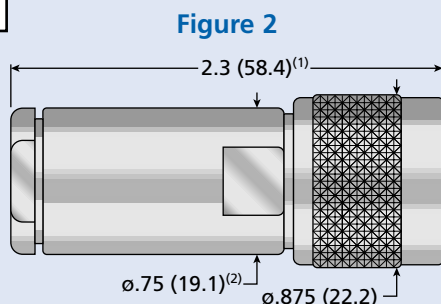


Figure 2

⁽¹⁾2.4 (60.1) for Cable Group CF-34.
⁽²⁾.88 (22.4) for Cable Group CF-34.

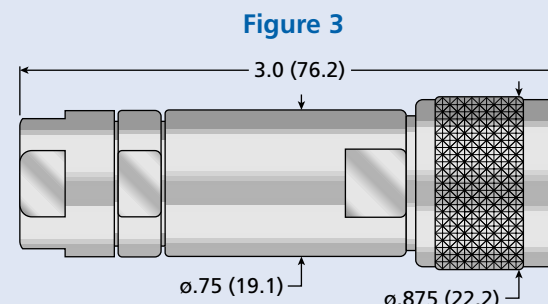


Figure 3

⁽¹⁾3.1 (78.7) for Cable Group CF-40.
⁽²⁾.88 (22.4) for Cable Group CF-40.

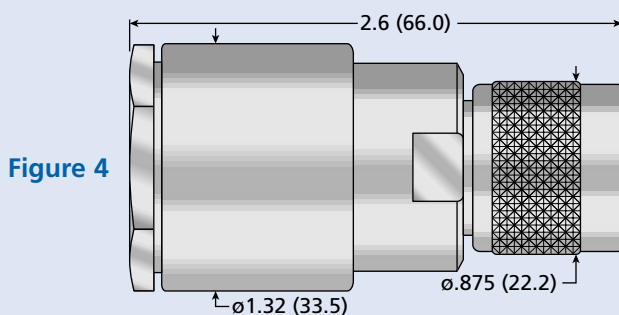


Figure 4

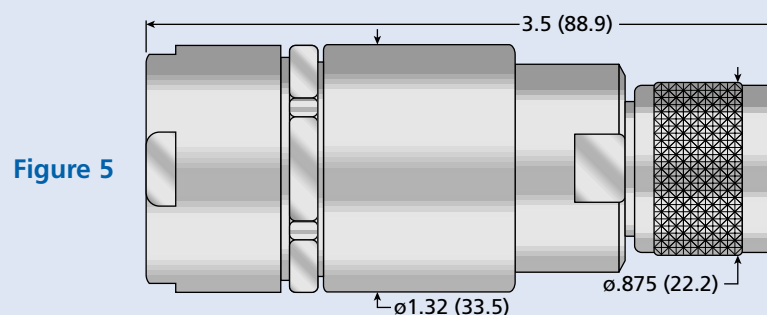
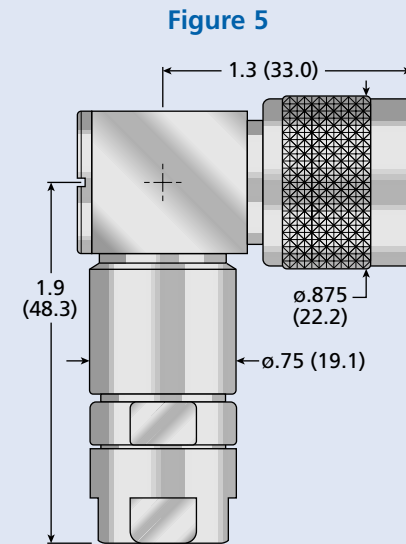
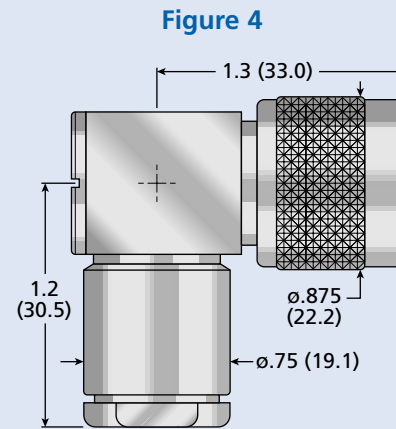
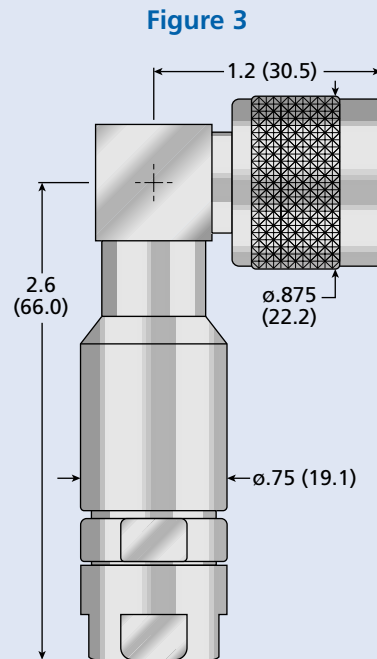
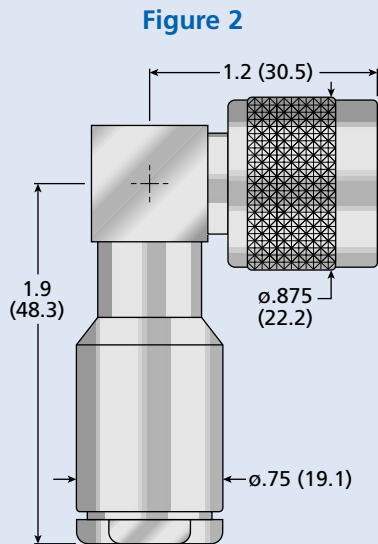
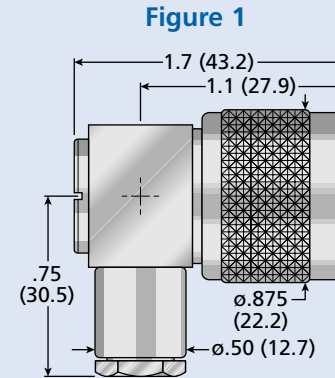


Figure 5

Right Angle Cable Plugs

Cable Group	Right Angle Plug—V-Groove			
	Non-captive Contact	Figure	Captive Contact	Figure
CF-5, 6	Contact Factory	—	101-H2100A	1
CF-7, 8	Contact Factory	—	151-H2100A	1
CF-13	200-H2000N	2	201-H2100A	4
CF-14	210-H2000N	2	211-H2100A	4
CF-22	300-H2000N	2	301-H2100A	4
CF-23	302-H2000N	3	303-H2100A	5
CF-26	310-H2000N	2	311-H2100A	4
CF-28	312-H2000N	3	313-H2100A	5

- All items have silver-plated bodies and contacts.
For nickel-plated body, add K at beginning of part number.
- See page 14 for cable groups. Most types available for other cables not shown above.
- See page 15 for illustrations of V-Groove cable attachment.





Straight Cable Jacks

Cable Group	Straight Jack—V-Groove		Figure
	Non-captive Contact	Captive Contact	
CF-5, 6	100-H3000A	101-H3100A	1
CF-7, 8	150-H3000A	151-H3100A	1
CF-13	200-H3000A	201-H3100A	2
CF-14	210-H3000A	211-H3100A	2
CF-22	300-H3000A*	301-H3100A	2
CF-23	302-H3000A*	303-H3100A	3
CF-34	420-H3000A	421-H3100A	2
CF-37	700-H3000A*	701-H3100A*	4
CF-38	702-H3000A*	703-H3100A	5
CF-40	422-H3000A	423-H3100A	3
CF-41	600-H3000A	601-H3100A	4
CF-42	602-H3000A	603-H3100A	5

- All items have silver-plated bodies and contacts. For nickel-plated body, add K at beginning of part number.
- See page 14 for cable groups. Most types available for other cables not shown above.
- See page 15 for illustrations of V-Groove cable attachment.
- * Available as UG type.

Figure 1

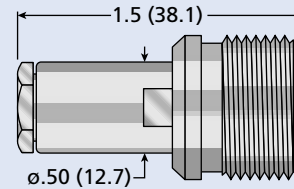
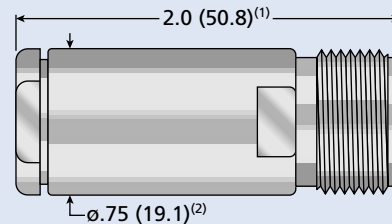
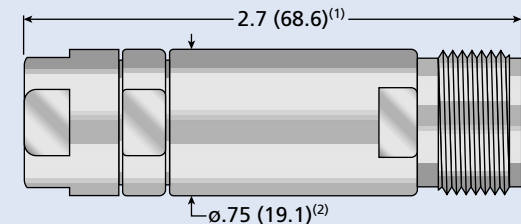


Figure 2



⁽¹⁾2.6 (66.0) for Cable Group CF-34.
⁽²⁾.88 (22.4) for Cable Group CF-34.

Figure 3



⁽¹⁾3.3 (83.8) for Cable Group CF-40.
⁽²⁾.88 (22.4) for Cable Group CF-40.

Figure 4

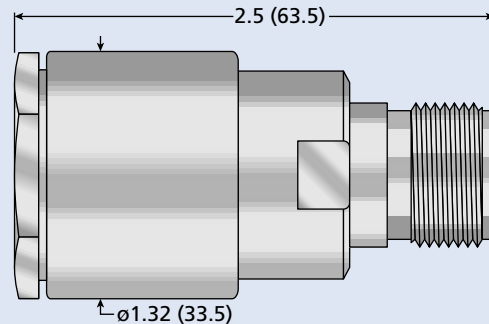
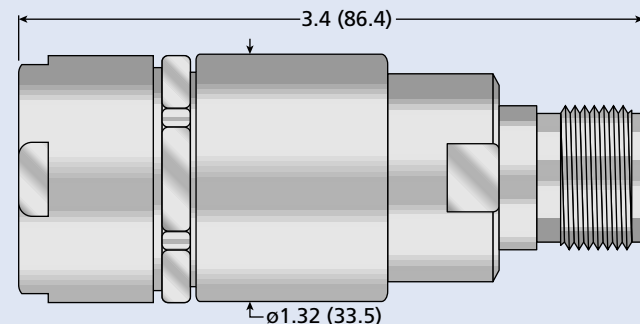


Figure 5



Right Angle Cable Jacks

Cable Group	Right Angle Jack—V-Groove	
	Captive Contact	Figure
CF-5, 6	101-H4100A	1
CF-7, 8	151-H4100A	1
CF-13	201-H4100A	2
CF-14	211-H4100A	2
CF-22	301-H4100A	2
CF-23	303-H4100A	3
CF-26	311-H4100A	2
CF-28	313-H4100A	3

- All items have silver-plated bodies and contacts. For nickel-plated body, add K at beginning of part number.
- See page 14 for cable groups. Most types available for other cables not shown above.
- See page 15 for illustrations of V-Groove cable attachment.

Figure 1

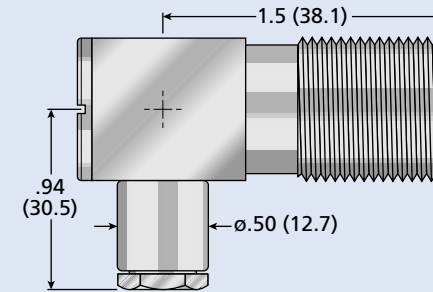


Figure 2

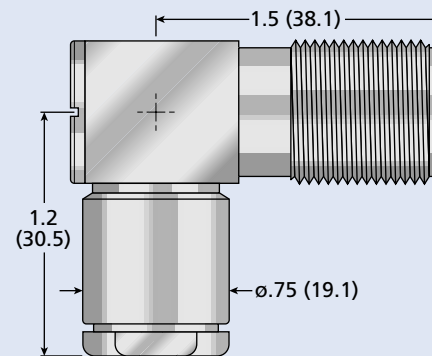
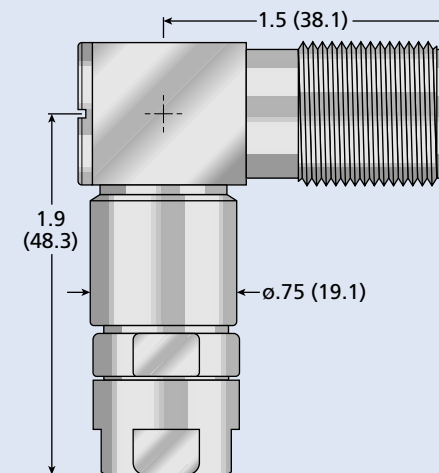


Figure 3



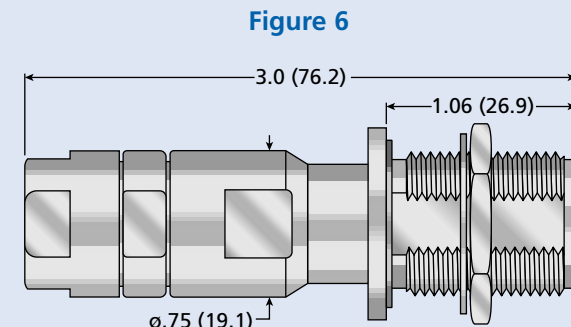
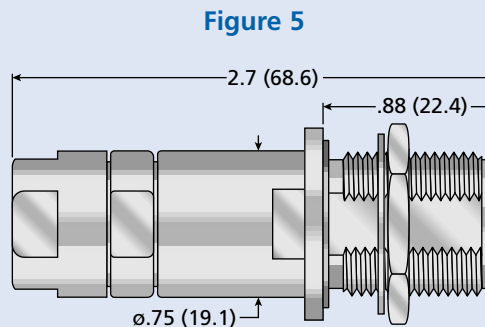
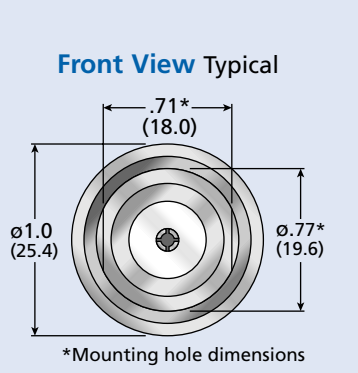
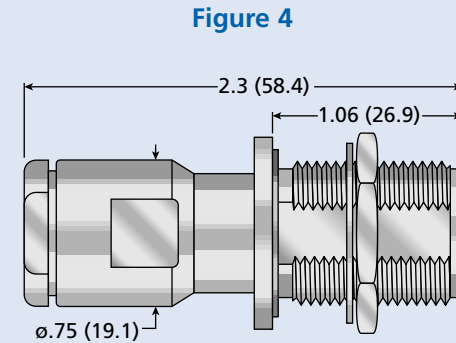
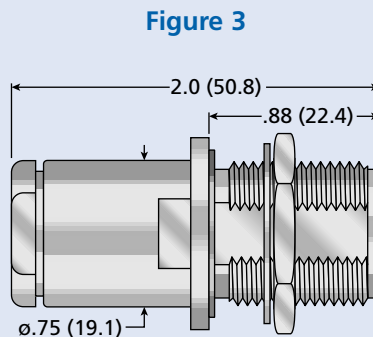
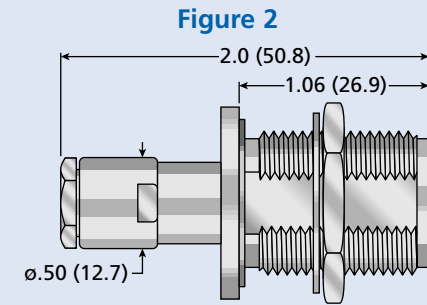
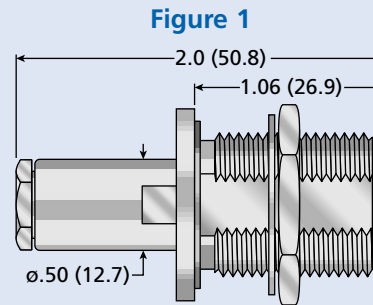


Straight Bulkhead Mounted Cable Jacks

Cable Group	Straight Bulkhead Jack—V-Groove		
	Non-captive Contact	Captive Contact	Figure
CF-5, 6	100-H3000A-95	101-H3100A-95	1
	100-H3001A-95*	101-H3101A-95*	2
CF-7, 8	150-H3000A-95	151-H3100A-95	1
	150-H3001A-95*	151-H3101A-95*	2
CF-13	200-H3000A-95	201-H3100A-95	3
	200-H3001A-95*	201-H3101A-95*	4
CF-14	210-H3000A-95	211-H3100A-95	3
	210-H3001A-95*	211-H3101A-95*	4
CF-22	300-H3000A-95	301-H3100A-95	3
	300-H3001A-95*	301-H3101A-95*	4
CF-23	302-H3000A-95	303-H3100A-95	5
	302-H3001A-95*	303-H3101A-95*	6

* Pressurized

- All items have silver-plated bodies and contacts. For nickel-plated body, add **K** at beginning of part number.
- See page 14 for cable groups. Most types available for other cables not shown above.
- See page 15 for illustrations of V-Groove cable attachment.



Right Angle Bulkhead Mounted Cable Jacks

Cable Group	Right Angle Jack—V-Groove	
	Captive Contact	Figure
CF-5, 6	101-H4100A-95	1
	101-H4101A-95*	
CF-7, 8	151-H4100A-95	1
	151-H4101A-95*	
CF-13	201-H4100A-95	2
	201-H4101A-95*	
CF-14	211-H4100A-95	2
	211-H4101A-95*	
CF-22	301-H4100A-95	2
	301-H4101A-95*	
CF-23	303-H4100A-95	3
	303-H4101A-95*	

* Pressurized

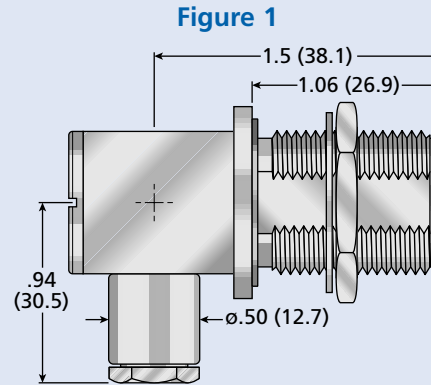
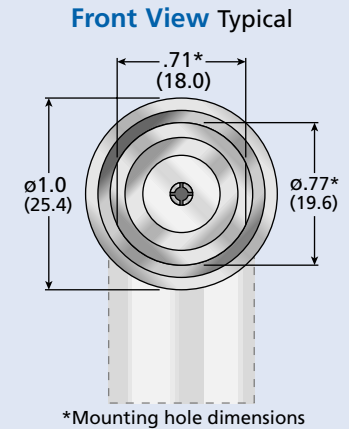


Figure 1



Front View Typical

Figure 2

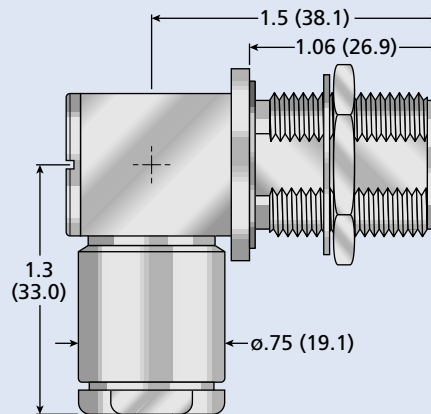
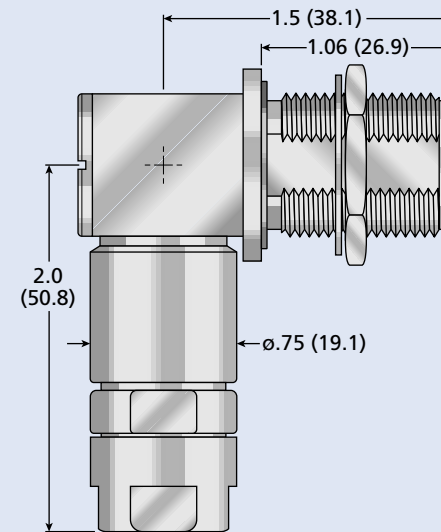


Figure 3



- All items have silver-plated bodies and contacts. For nickel-plated body, add **K** at beginning of part number.
- See page 14 for cable groups. Most types available for other cables not shown above.
- See page 15 for illustrations of V-Groove cable attachment.



Straight Panel Mounted Cable Jacks

Cable Group	Straight Panel Jack—V-Groove		Figure
	Non-captive Contact	Captive Contact	
CF-5, 6	100-H3000A-20	101-H3100A-20	1
CF-7, 8	150-H3000A-20	151-H3100A-20	1
CF-13	200-H3000A-30	201-H3100A-30	2
CF-14	210-H3000A-30	211-H3100A-30	2
CF-22	300-H3000A-30*	301-H3100A-30	2
CF-23	302-H3000A-30*	303-H3100A-30	3
CF-34	420-H3000A-30	421-H3100A-30	2
CF-37	700-H3000A-30*	701-H3100A-30	4
CF-38	702-H3000A-30*	703-H3100A-30	5
CF-40	422-H3000A-30	423-H3100A-30	3
CF-41	600-H3000A-30	601-H3100A-30	4
CF-42	602-H3000A-30	603-H3100A-30	5

- All items have silver-plated bodies and contacts. For nickel-plated body, add K at beginning of part number.
- See page 14 for cable groups. Most types available for other cables not shown above.
- See page 15 for illustrations of V-Groove cable attachment.
- * Available as UG type.

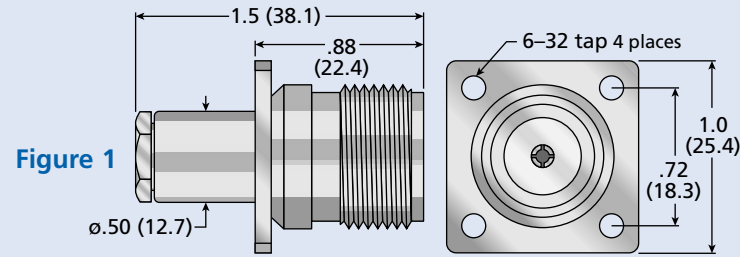


Figure 1

For flange with .125 (3.2) clearance holes, change last two digits of part number to -25.

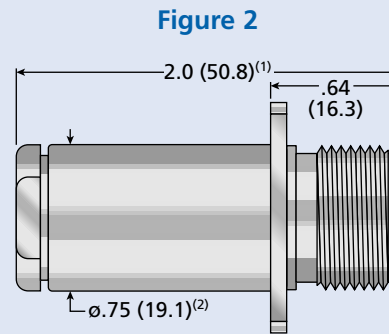


Figure 2

⁽¹⁾3.3 (83.8) for Cable Group CF-40.
⁽²⁾.88 (22.4) for Cable Group CF-40.

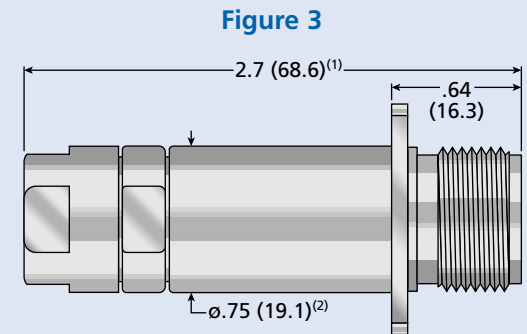
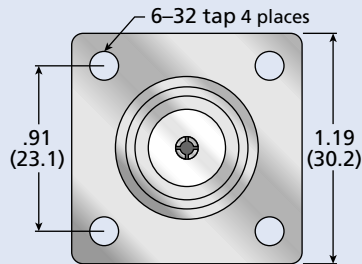


Figure 3

⁽¹⁾3.3 (83.8) for Cable Group CF-40.
⁽²⁾.88 (22.4) for Cable Group CF-40.

Front View
(Figures 2 through 5)



For flange with .125 (3.2) clearance holes, change last two digits of part number to -35.

Figure 4

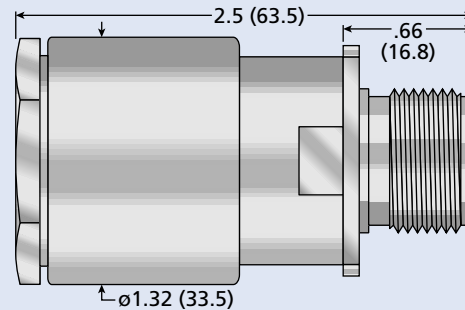
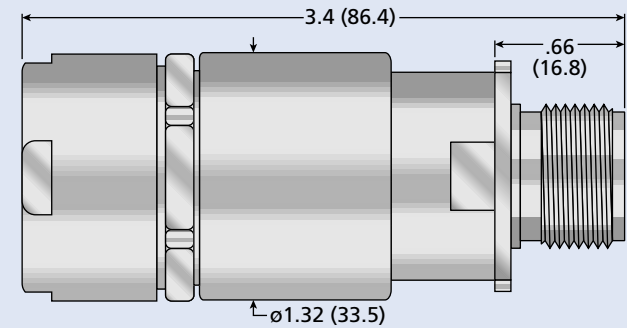


Figure 5



Right Angle Panel Mounted Cable Jacks

Cable Group	Right Angle Jack—V-Groove	
	Captive Contact	Figure
CF-5, 6	101-H4100A-30	1
CF-7, 8	151-H4100A-30	1
CF-13	201-H4100A-30	2
CF-14	211-H4100A-30	2
CF-22	301-H4100A-30	2
CF-23	303-H4100A-30	3
CF-26	311-H4100A-30	2
CF-28	313-H4100A-30	3

- All items have silver-plated bodies and contacts. For nickel-plated body, add K at beginning of part number.
- See page 14 for cable groups. Most types available for other cables not shown above.
- See page 15 for illustrations of V-Groove cable attachment.
- For flange with .125 (3.2) clearance holes, change last two digits of part number to -35.

Figure 1

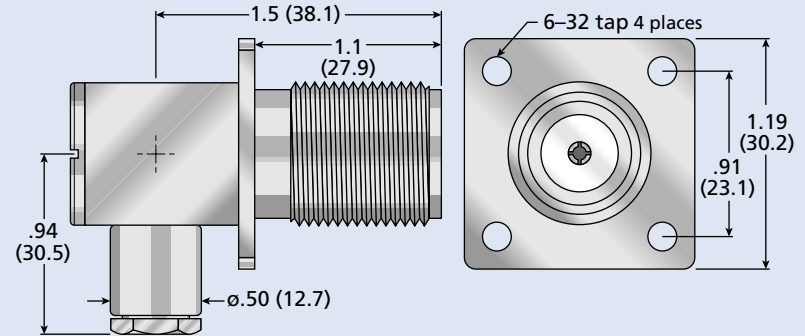


Figure 2

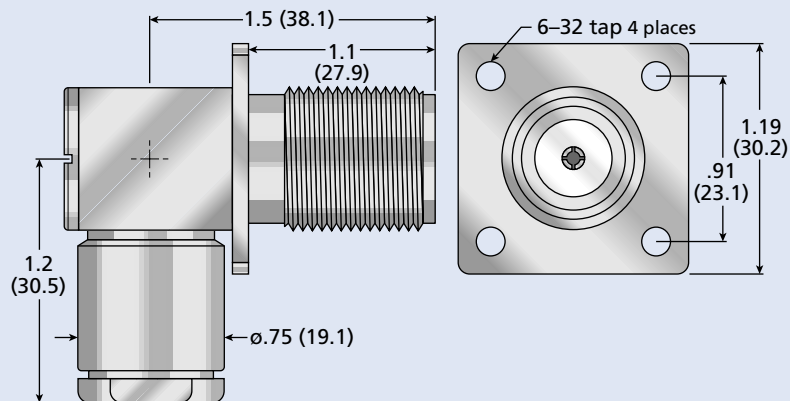
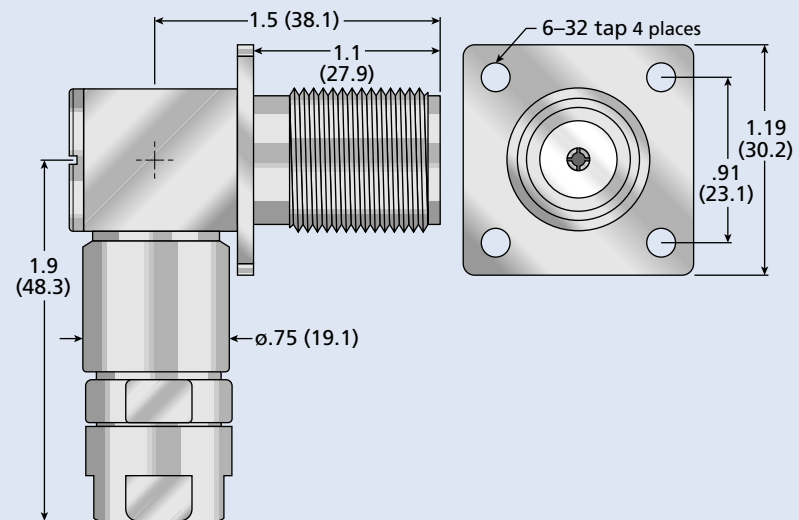


Figure 3



Bulkhead and Panel Mounted Receptacles

Bulkhead Jack Receptacles	
Figure	Part Number
1	87-H3501
2	95-H3501

Figure 1 (Front Mount, Hermetic Seal)

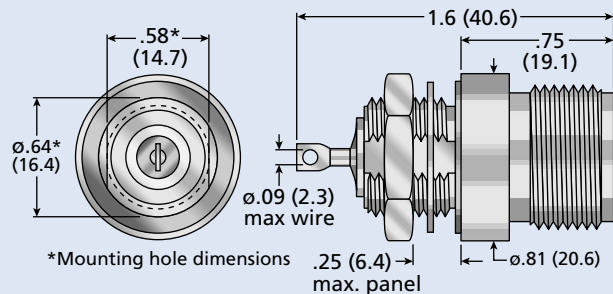
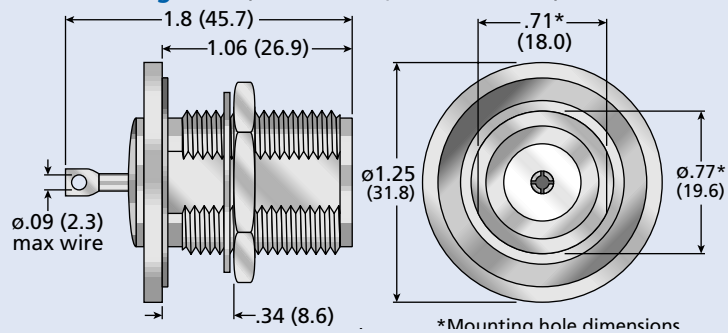


Figure 2 (Rear Mount, Hermetic Seal)



- All items have silver-plated bodies and gold-plated contacts. For nickel-plated body, add **K** at beginning of part number. For gold-plated body add **G** at beginning of part number.

* Available as UG type.

Panel Receptacles		
Figure	Flange	Part Number
3	30	30-H3000
3	35	35-H3000*
4	30	30-H3005
4	35	35-H3005
5	30	30-H3501
5	35	35-H3501
6	30	30-H1000
6	35	35-H1000

Figure 3

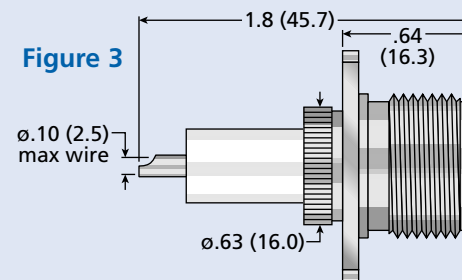


Figure 4

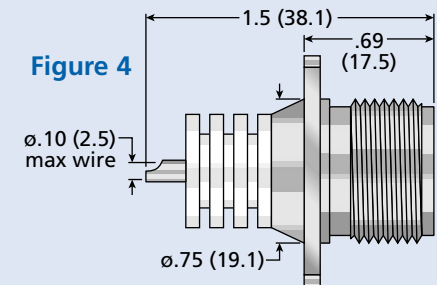


Figure 5
(Hermetic Seal)

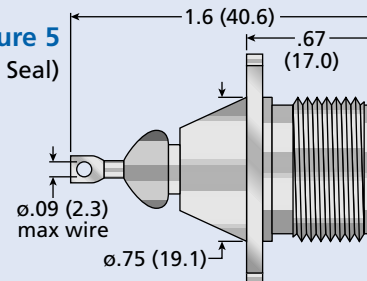
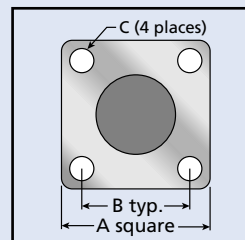
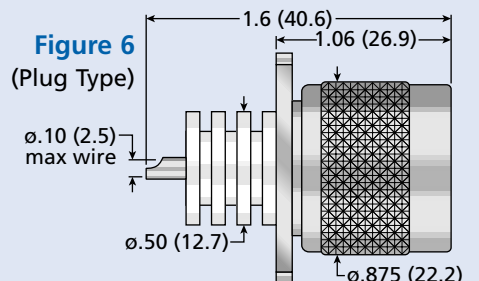


Figure 6
(Plug Type)



Flange Sizes

Flange #	A	B	C
30	1.19 (30.2)	.91 (23.1)	6-32 tap
35	1.19 (30.2)	.91 (23.1)	0.13 (3.3)

Dust Caps and Resistor Terminations

Dust Caps						
Figure	Mating	Dim. A	Dim. B	Dim. C	Chain	Part Number
1	Plug	.94 (23.9)	.144 (3.7)	2.25 (57.2)	Bead	1-H722
1	Plug	.94 (23.9)	—	—	None	1-H700
1	Plug	1.0 (25.4)	.190 (4.8)	2.50 (63.5)	Bead	2-H722†
1	Plug	1.0 (25.4)	—	—	None	2-H700†
2	Jack	.91 (23.1)	1.19 (30.2)	6.0 (152.4)	Bead	3-H788
2	Jack	.91 (23.1)	—	—	None	3-H700
2	Jack	.91 (23.1)	1.19 (30.2)	6.0 (152.4)	Bead	4-H788†
2	Jack	.91 (23.1)	—	—	None	4-H700†

- All items have silver-plated bodies.
For nickel-plated body, add K at beginning of part number.
- † Shorting type.

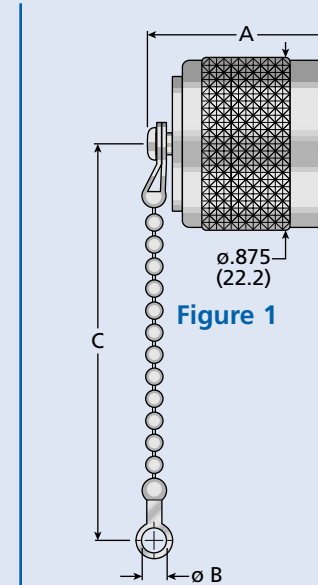


Figure 1

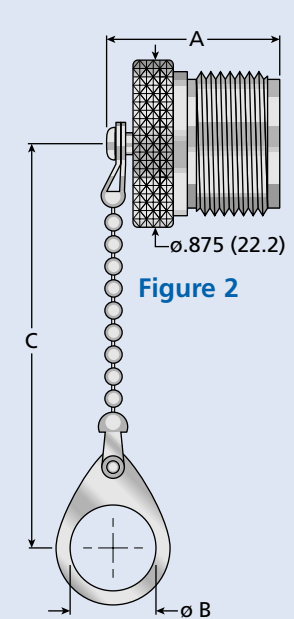


Figure 2

Resistor Terminations					
Figure	Mating	Resistor	Dim A	Chain	Part Number
3	Plug	51 ohm, 1/2W, 5%	2.25 (57.2)	Bead	5-H022-51
3	Plug	51 ohm, 1/2W, 5%	—	None	5-H000-51
3	Plug	100 ohm, 1/2W, 5%	2.25 (57.2)	Bead	5-H022-100
3	Plug	100 ohm, 1/2W, 5%	—	None	5-H000-100

Also available with other resistances.

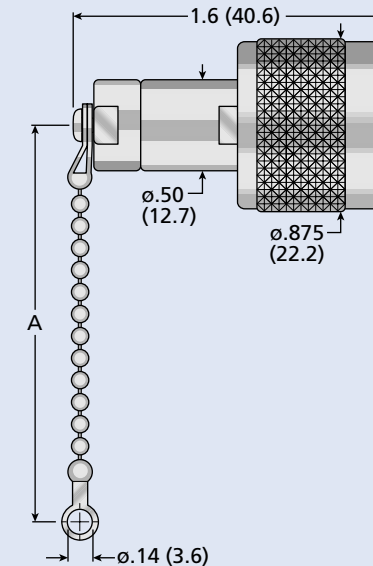


Figure 3



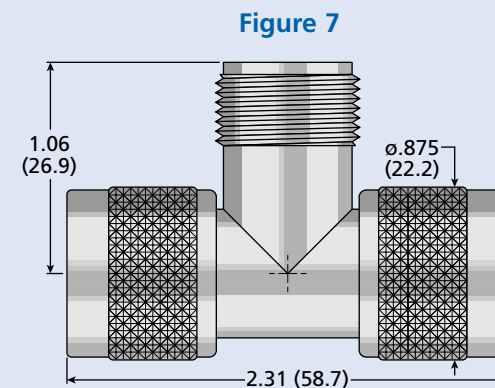
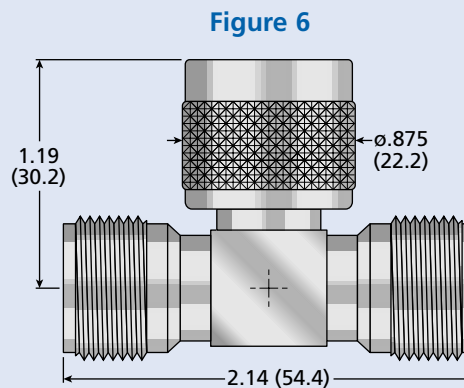
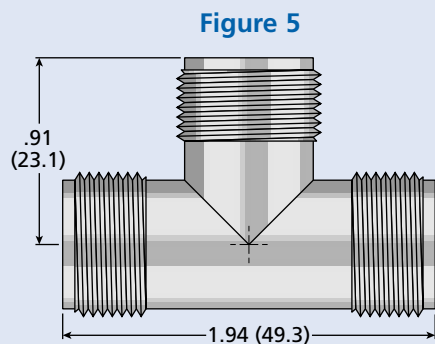
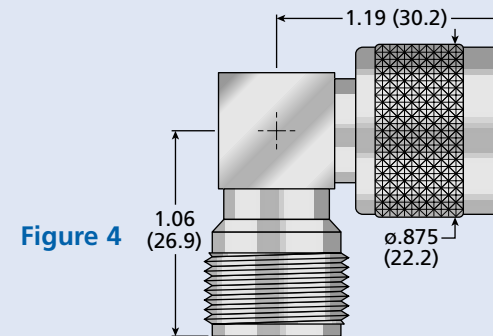
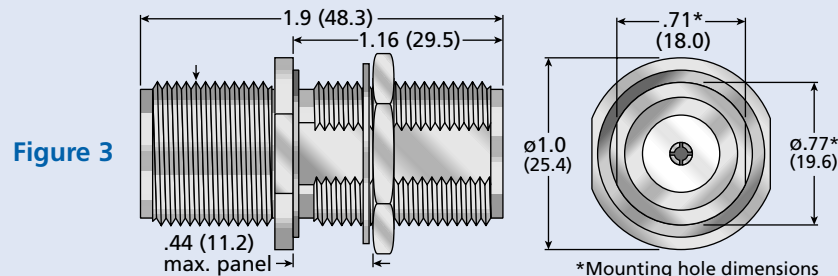
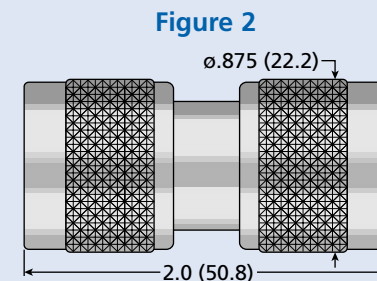
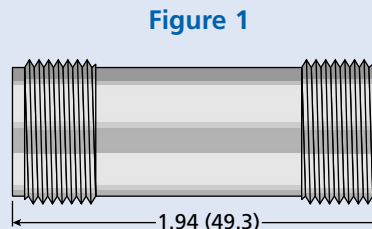
Adapters Within Series

Straight Adapters		
Type	Figure	Part Number
Jack-Jack	1	H3000
Plug-Plug	2	H1500
Jack-Jack, Bulkhead, Hermetic	3	H3001-95*

Right Angle Adapters		
Type	Figure	Part Number
Jack-Plug	4	H2100*

Tee Adapters		
Type	Figure	Part Number
Jack-Jack-Jack	5	H7600*
Jack-Plug-Jack	6	H7200
Plug-Jack-Plug	7	H7400*

- All items have silver-plated bodies and contacts. For nickel-plated body, add K at beginning of part number.
- * Available as UG type.



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
.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.

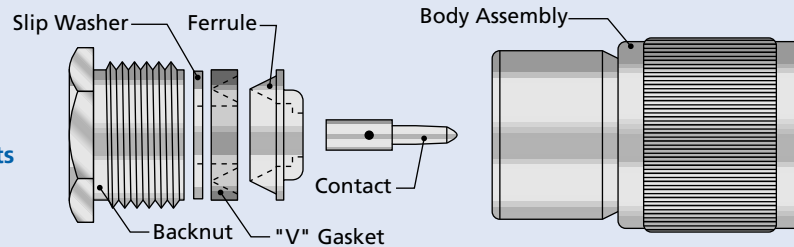
**Unless otherwise noted, cable groups include all variants of M17 slash sheet indicated.

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

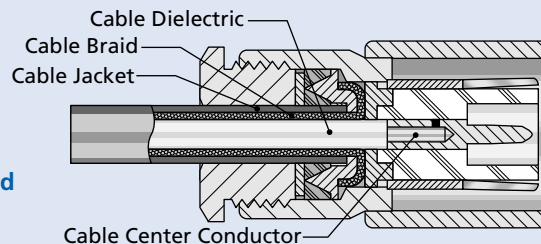
Cable Attachment Types—Flexible Cable

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.

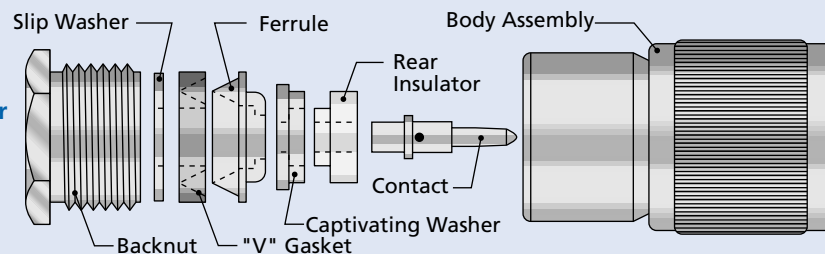
The cable is stripped, and the braid is combed out and folded back over the ferrule. The connector contact is soldered to the cable conductor.

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

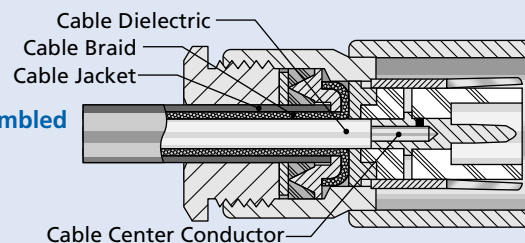
The slip washer prevents twisting the cable while the nut is being tightened, and the rear surface of the ferrule cuts through the V-gasket, providing metal-to-metal braid clamping as well as weatherproofing.

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).