



### PVDF Body w/ FKM Insert: High/Low Temperature & Chemical Resistant

Part Numbers		Cable Range Inches (mm)	Thread Type & Size  See page 56 for thread specs	Dimensions in Inches (mm)				
-31°F to 302°F (-35°C to 150°C)				A Clearance Hole  +.01" (+.25 mm)	B Body Length (Dome)	C Body Length (Flex)	TL Thread Length	F <sub>1</sub> /F
Dome	Flex							
CD07AA-TE	CF07AA-TE	.12 - .26 (3 - 6.5)	PG 7 / 1/4" NPT	.49 (12.5)	.83 (21)	2.13 (54)	.31 (8)	.59 (15)
CD07AR-TE	CF07AR-TE	.08 - .20 (2 - 5)						
CD09AA-TE	-	.16 - .31 (4 - 8)	PG 9	.60 (15.2)	.87 (22)	2.48 (66)	.31 (8)	.75 (19)
CD09AR-TE	-	.08 - .24 (2 - 6)						
CD11AA-TE	-	.20 - .39 (5 - 10)	PG 11	.73 (18.5)	.98 (25)	-	.31 (8)	.87 (22)
CD11AR-TE	-	.12 - .28 (3 - 7)						
CD13AA-TE	-	.24 - .47 (6 - 12)	PG 13 / 13.5	.80 (20.3)	1.06 (27)	3.54 (90)	.35 (9)	.94 (24)
CD13AR-TE	-	.20 - .35 (5 - 9)						
CD16AA-TE	-	.39 - .55 (10 - 14)	PG 16	.89 (22.5)	1.10 (28)	-	.39 (10)	1.06 (27)
CD16AR-TE	-	.28 - .47 (7-12)						
CD21AA-TE	-	.51 - .71 (13 - 18)	PG 21	1.12 (28.4)	1.22 (31)	-	.43 (11)	1.30 (33)
CD21AR-TE	-	.35 - .63 (9 - 16)						
CD29AA-TE	-	.71 - .98 (18 - 25)	PG 29	1.47 (37.3)	1.54 (39)	-	.43 (11)	1.65 (42)
CD29AR-TE	-	.51 - .79 (13 - 20)						
CD36AA-TE	-	.87 - 1.26 (22 - 32)	PG 36	1.85 (47)	1.89 (48)	-	.51 (13)	2.09 (53)
CD36AR-TE	-	.79 - 1.02 (20 - 26)						
CD42AA-TE	-	1.26 - 1.50 (32 - 38)	PG 42	2.13 (54.1)	1.93 (49)	-	.51 (13)	2.36 (60)
CD42AR-TE	-	.98 - 1.22 (25 - 31)						
CD48AA-TE	-	1.46 - .73 (37 - 44)	PG 48	2.34 (59.4)	1.93 (49)	-	.55 (14)	2.56 (65)
CD48AR-TE	-	1.14 - 1.38 (29 - 35)						
CD09NA-TE	-	.16 - .31 (4 - 8)	3/8" NPT	.68 (17.2)	.87 (22)	2.13 (54)	.59 (15)	.75 (19) / .87 (22)
CD09NR-TE	-	.08 - .24 (2 - 6)						
CD13NA-TE	-	.24 - .47 (6 - 12)	1/2" NPT	.83 (21.1)	1.06 (27)	2.48 (63)	.51 (13)	.94 (24)
CD13NR-TE	-	.20 - .35 (5 - 9)						
CD16NA-TE	-	.39 - .55 (10 - 14)	1/2" NPT	.83 (21.1)	1.10 (28)	-	.51 (13)	1.06 (27)
CD16NR-TE	-	.28 - .47 (7-12)						
CD21NA-TE	-	.51 - .71 (13 - 18)	3/4" NPT	1.05 (26.7)	1.22 (31)	-	.51 (13)	1.30 (33)
CD21NR-TE	-	.35 - .63 (9 - 16)						
CD12MA-TE	CF12MA-TE	.12 - .26 (3 - 6.5)	M12 X 1.5	.47 ( 12)	.83 (21)	2.13 (54)	.31 (8)	.59 (15)
CD12MR-TE	CF12MR-TE	.08 - .20 (2 - 5)						
CD16MA-TE	-	.16 - .31 (4 - 8)	M16 X 1.5	.63 (16)	.87 (22)	2.48 (63)	.31 (8)	.75 (19)
CD16MR-TE	-	.08 - .24 (2 - 6)						
CD20MA-TE	-	.24 - .47 (6 - 12)	M20 X 1.5	.79 (20)	1.06 (27)	3.54 (90)	.35 (9)	.94 (24)
CD20MR-TE	-	.20 - .35 (5 - 9)						
CD25MA-TE	-	.51 - .71 (13 - 18)	M25 X 1.5	.98 (25)	1.22 (31)	-	.43 (11)	1.30 (33)
CD25MR-TE	-	.35 - .63 (9 - 16)						
CD32MA-TE	-	.71 - .98 (18 - 25)	M32 X 1.5	1.26 (32)	1.54 (39)	-	.43 (11)	1.65 (42)
CD32MR-TE	-	.51 - .79 (13 - 20)						

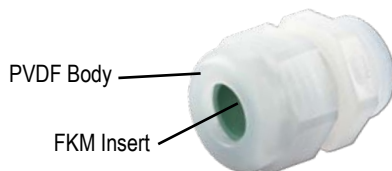
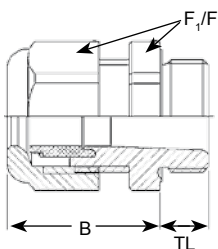
### Typical Application:

- Food & Beverage Industries
- Clean Room Applications
- High Temp. Applications
- V0 Rated

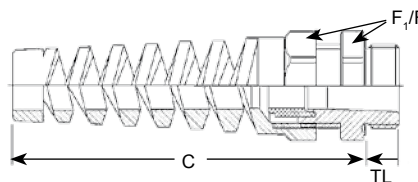


PVDF / Stainless Steel

\*UL, CSA, UR, CE, and German Lloyd Approvals apply to Dome Fittings.  
\*VDE Approval only applies to Dome Fittings with Metric Threads.



Suggested Clearance Hole for Non-Threaded Mounting



For Material Specifications and Approval Information refer to page 52.

**Nylon**

**Pressure Rating:**  
 150 PSIG (10 BAR) Type NEMA 4x, 6 (Submersible) & 12 - IP 68 / IP 69K

- Materials:**  
 Fittings: Nylon 6/6 -
- V0 Rated - Flame resistant, Halogen and Phosphorous Free, Self-extinguishing, Non-toxic, Fungus resistant
  - Form Seal: Buna-N
  - Clamping Insert: Nylon
  - Optional O-Ring: Buna-N, FKM or Silicone
  - Optional Seal Ring: Polyethylene or Fiber-Reinforced Plastic

**Operating Temperature:**  
 Nylon Fittings: -40°F to 212°F (-40°C to 100°C)  
 Nylon Fitting w/ Aluminum Clamp: -4°F to 158°F (-20°C to 70°C)

- Available Colors:**
- Black (RAL 9005)
  - Gray (RAL 7035)
  - Blue (RAL 5012) (upon request)



All Black Nylon Fittings use the new UL f1 (746C) material. These products are ideally used in Photovoltaic / Solar / Outdoor applications requiring more (UV / Ozone Stable) material.

**Nickel Plated Brass**

**Pressure Rating:**  
 150 PSIG (10 BAR) Type NEMA 4x, 6 (Submersible) & 12 - IP 68 / IP 69K

- Materials:**
- Fittings: Nickel Plated Brass
  - Spring (Flex Extension): 304 Stainless Steel
  - Form Seal: Buna-N (NBR) or FKM
  - Clamping Insert: PA (Nylon) or PVDF
  - O-Ring: Buna-N (NBR) FKM or Silicone optional
  - Optional Seal Ring: Polyethylene or Fiber-Reinforced Plastic

**Operating Temperature:**  
 Buna-N: -40°F to 212°F (-40°C to 100°C)  
 PVDF: -31°F to 302°F (-35°C to 150°C)

**EMI Feed-Through**  
 Clamping Insert:  
 Metal Coated Nylon

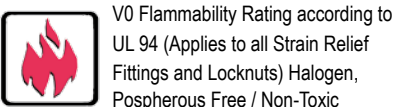
Nylon Splines 6/6: V0 rated - Flame resistant, halogen and phosphorous free, self extinguishing, non-toxic, fungus resistant

**Nickel Plated Brass - WADI**

Type	Operating Temperatures
• Mini WADI (Buna-N TPE)	-4°F to 212°F (-20°C to 100°C)
• Mini WADI (FKM)	-13°F to 392°F (-25°C to 200°C)
• WADI XL (Buna-N)	-4°F to 212°F (-20°C to 100°C)
	Metric: -40°F to 212°F (-40°C to 100°C)

**Adapter, Reducer & Enlarger Materials**

Materials	Operating Temperatures
• Nylon/Polypropylene	-4°F to 176°F (-20°C to 80°C)
• Nickel Plated Brass w/ Buna-N O-Ring	-40°F to 212°F (-40°C to 100°C)
• 303/316L Stainless Steel w/ Buna-N O-Ring	-4°F to 203°F (-20°C to 95°C)



**PVDF**

**Pressure Rating:**  
 150 PSIG (10 BAR) Type NEMA 4x, 6 (Submersible) & 12 - IP 68 / IP 69K

- |   |                          |
|---|--------------------------|
| <b>Materials:</b>   | <b>Resistant to:</b>     |
| • Fittings: PVDF (Polyvinylidene Flouride)  | • Acid                   |
| • V0 Rated - Flame resistant, Halogen & Phosphorous Free, Self-extinguishing, Non-toxic, Fungus resistant | • Salt solution          |
| • Form Seal: FKM  | • Oxydant                |
| • Clamping Insert: PVDF   | • Halogens               |
| • Optional O-Ring: FKM  | • Alcohols               |
|   | • Chlorinated solvent    |
|   | • Aliphatic hydrocarbons |
|   | • Petrol                 |

**Operating Temperature:**  
 -31°F to 302°F (-35°C to 150°C)

**Stainless Steel**

**Pressure Rating:**  
 150 PSIG (10 BAR) Type NEMA 4x, 6 (Submersible) & 12 - IP 68 / IP 69K

- Materials:**
- Fittings: (INOX) 303 Stainless Steel or 316L Stainless Steel
  - Form Seal: Buna-N (NBR) or FKM
  - Clamping Insert: PA (Nylon) or PVDF
  - O-Ring: Buna-N, FKM or Silicone

**Operating Temperature:**  
 Buna-N: -40°F to 212°F (-40°C to 100°C)  
 PVDF: -31°F to 302°F (-35°C to 150°C)

**Insert Materials**

Materials	Operating Temperatures
• Buna-N / TPE	-40°F to 212°F (-20°C to 100°C)
• Elastomer	-40°F to 212°F (-40°C to 100°C)
• FKM	-40°F to 392°F (-40°C to 200°C)
• Silicone (VMQ)	-76°F to 482°F (-60°C to 250°C)

**O-Ring & Seal Ring Materials**

Materials	Operating Temperatures
• Buna-N (NBR)	-22°F to 248°F (-30°C to 120°C)
• FKM	-40°F to 392°F (-40°C to 200°C)
• Silicone (VMQ)	-76°F to 482°F (-60°C to 250°C)
• Polyethylene	-22°F to 158°F (-30°C to 70°C)
• Fiber-reinforced Plastic	-40°F to 572°F (-40°C to 300°C)



**ULF1 (746C)**  
 All Black Nylon (Dome & Flex) Strain Relief Fittings, Cord Grips, Cable Glands are now made with UV / Ozone Stable material.

**UL/UR\* E103997**  
**CSA 074032**  
**VDE 71339**  
**CAGE O UE11**  
**PATENT 4145075**

\* The following Nylon and Nickel Plated Brass Strain Relief Fittings are UR, but not UL listed:  
 Sizes 3/8" NPT, M12, M16, PG7, PG9, PG11 and Multi-Hole fittings.  
 The following Multi-Hole sizes are neither UL or UR rated:  
 Sizes 1/2" NPT-E, M16-E, M20-E, M40, M50, M63

\* The following Nylon and Nickel Plated Brass Strain Relief Fittings are UR, but not UL listed:  
 • Sizes 3/8" NPT, M12, M16, PG7, PG9, and PG11

Dome Fittings also available with the following approvals:



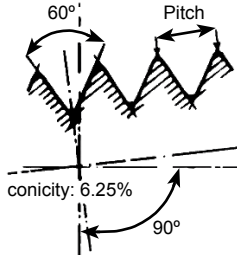
www.SealconEX.com



Call for Technical Assistance:  
 (800) 456-9012 / (303) 699-1135

### NPT Threads

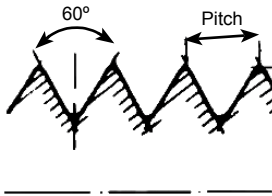
Thread Size	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Major Dia. in Inches (mm)	.54 (13.72)	.675 (17.145)	.84 (21.336)	1.05 (26.67)	1.314 (33.40)	1.66 (42.164)	1.90 (48.26)	2.375 (60.325)
Pitch in Inches (mm)	.056 (1.41)	.056 (1.411)	.071 (1.814)	.071 (1.814)	.087 (2.208)	.087 (2.208)	.087 (2.208)	.087 (2.208)
Threads per Inch	18	18	14	14	11.5	11.5	11.5	11.5



- NPT Thread = National Pipe Thread
- Taper rate for all NPT threads is 1/16
- The taper on NPT threads allows them to form a seal when torqued as the flanks of the threads compress against each other, as opposed to straight thread fittings

### Metric Threads

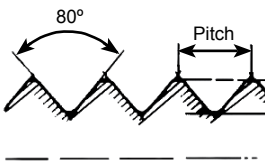
Thread Size	M6	M8	M10	M12	M16	M20	M25	M32	M40	M50	M63
Major Dia. in Inches (mm)	.24 (6)	.31 (8)	.39 (10)	.47 (12)	.63 (16)	.79 (20)	.98 (25)	1.26 (32)	1.57 (40)	1.97 (50)	2.48 (63)
Pitch in Inches (mm)	.04 (1)	.05 (1.25)	.06 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)
Thru Hole in Inches (mm)	.251 (6.4)	.33 (8.4)	.413 (10.5)	.492 (12.5)	.63 (16)	.79 (20)	.98 (25)	1.26 (32)	1.57 (40)	1.97 (50)	2.48 (63)



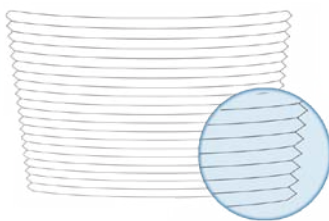
- World-wide most commonly used type thread
- Characterized by its major diameter and its pitch
- Designated by the letter M followed by the value of the nominal diameter and the pitch, both expressed in millimeters and separated by the multiplication sign 'x' (i.e. M12 x 1.5)

### PG Threads

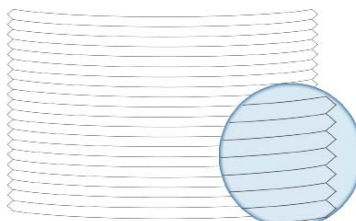
Thread Size	PG 7	PG 9	PG 11	PG 13 / 13.5	PG 16	PG 21	PG 29	PG 36	PG 42	PG 48
Major Dia. in Inches (mm)	.49 (12.5)	.60 (15.2)	.73 (18.6)	.80 (20.4)	.89 (22.5)	1.11 (28.3)	1.46 (37)	1.85 (47)	2.13 (54)	2.39 (59.3)
Pitch in Inches (mm)	.05 (1.27)	.056 (1.41)	.056 (1.41)	.056 (1.41)	.056 (1.41)	.062 (1.59)	.062 (1.59)	.062 (1.59)	.062 (1.59)	.062 (1.59)
Thru Hole in Inches (mm)	.50 (12.7)	.606 (15.4)	.74 (18.8)	.8149 (20.7)	.897 (22.8)	1.12 (28.6)	1.47 (37.4)	1.87 (47.5)	2.14 (54.5)	2.35 (59.8)



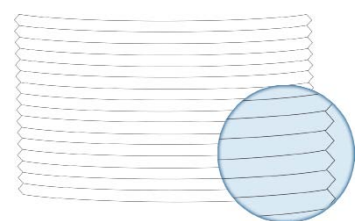
- PG Thread = Panzer-Gewinde (also Panzer-Rohr-Gewinde)
- German thread type
- Depth of thread smaller than NPT or Metric, but larger flank angle
- Straight thread



**NPT Threads**  
(Tapered)



**Metric Threads**  
(Straight)



**PG Threads**  
(Straight)