

MILITARY & DEFENSE EDITION

**NF Series**  
**MIL-DTL-28876**  
**MILITARY STYLE CONNECTORS**

- Fiber Optic Termini
- Environmental Backshells
- Covers, Gaskets, Contacts, Tooling

# Milnec Interconnect Systems

## High-Performance Cylindrical Connectors

### About Us

**M**ILNEC INTERCONNECT SYSTEMS is a leader in the design, manufacture, and supply of high-performance cylindrical interconnect systems. From research stations in the Antarctic to spacecraft on the plains of Mars, our high-reliability connector systems conquer the most demanding environments. Milnec is a supplier to leading companies in 24 countries in the following industries:

- Military & Defense
- Aerospace & Space
- Railway & Mass Transit
- Industrial & Heavy Equipment
- Alternative Energy, Nuclear, Oil & Gas



### Logistics Solutions for Global Applications

Global logistics and support means we deliver products on time every time to any destination. To support your immediate requirements, we have extensive inventories, making most systems readily available for today's compressed design and production schedules. On average, custom connector solutions made to your exact configuration ship within seven days from the time of order placement.

- Worldwide shipping (restricted to NATO countries only)
- Web access to inventory, prices, & delivery information
- A large stock of popular parts for greater availability
- Competitive pricing and short lead times
- Impeccable customer service & technical support

#### Milnec Interconnect Systems

3947 West Lincoln Highway #192  
Downingtown, PA 19335

1-855-4MILNEC Toll Free  
(1-855-464-5632)

technical-support@milnec.com

U.S. Military Cage Code: 6STX5

NAICS Code: 423690

### High Reliability—Simplified

Just because your interconnect problem is complicated does not mean acquiring the solution has to be. Milnec connector systems and our "all-in-one" kits provide engineers the most complete and professional connector solutions with ease and technical clarity.

- Complete, high-reliability solutions
- Simple to understand technical data & configurations
- Online part builder tools, drawings, & documentation
- Field installable & serviceable



### Performance With Environmental Responsibility

RoHS compliant products are available to support environmental responsibility and legislative conformity. Through simple modification codes, Milnec provides a wide variety of material options to easily provide customers with fully compliant and eco-friendly connector components.

- RoHS compliant materials & finishes
- Simple material modification codes
- Lead-free solder contacts



### Highest Manufacturing Quality

We invest in the finest equipment and modern production processes to ensure that our connectors will exceed your quality and performance expectations. Our production processes include advanced computer numerical control machining, cosmetic and metal finishing, heat treatment, and stainless steel passivation.

- Traceability on 100% of the parts
- Quick production lead times
- Quantity support from R&D to production
- "Just-in-time" delivery, kitting, & special packaging
- Rapid tooling & prototyping for custom designs



Rev. 2243

## MIL-DTL-28876 Type Fiber Optic Connectors

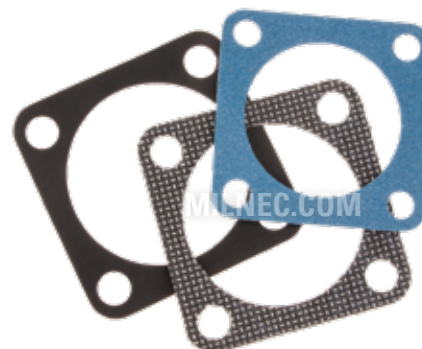
The NF Series of connectors is based on the modern MIL-DTL-28876 standard for fiber optic connectors. M28876 connectors were designed for use in fiber optic shipboard applications by the U.S. Navy. Milnec meets that requirement for performance and durability with the NF Series. Connectors are available in four shell sizes with five contact arrangements. Contacts feature low insertion loss (-0.35dB typ MM, -0.35dB typ SM) and are compatible with single or multimode termini. Available backshells offer environmental protection and are field serviceable in accordance with MIL-STD-2042. Bring the NF Series on board for your modern naval fiber optic applications.



**Rugged Fiber Optics**  
NF Series connectors feature fiber optic termini in a variety of layouts for modern shipboard applications.

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## Complete IP67 Rated Waterproof Connector Kits

NF Series connectors can be easily configured as complete kits that include a full range of protective accessories for a reliable, IP67 rated environmental interconnect solution. Simply select the desired kit option on the part builder and your connector will come with all the matching sealing accessories you need for complete protection, right out of the box!





# Series Specifications

NF Series • MIL-DTL-28876 Type Connectors

## Performance Specifications

Built to meet or exceed MIL-DTL-28876 specifications  
Guaranteed fully compatible and interchangeable with physical and performance characteristics with all existing MIL-DTL-28876 military and commercial derivatives

## Environmental Characteristics

### Operating Temperature

-18 to +149°F (-28° to +65°C)

### Storage Temperature

-40 to +158°F (-40 to +70°C)

### Water Pressure

Equivalent depth of 32 feet for 48 hours  
at +50 to +95°F (+10° to +35°C)

### Fluid Immersion

Turbine fuel, isopropyl alcohol, hydraulic fluid, lubricating oil, coolant, tap water, and seawater, 24-hour immersion duration, per TIA/EIA-455-12

### Freezing Water

1 hour, per TIA/EIA-455-98, Test Method A, Procedure 1

### Humidity

240 hours at 98% RH, per EIA/TIA-455-5, Method B

### Ozone Exposure

150 ppm for 2 hours at +158°F (+70°C), per TIA/EIA-455-189

### Sand & Dust

12 hours, per TIA/EIA-455-35

### Fungus Resistance

28 days at +86°F (+30°C), 95% RH, per TIA/EIA-455-56

### Flamability

0.75 inch flame for 10 seconds mated, 1.50 inch flame for 60 seconds unmated, per EIA/ECA-364-81

## Endurance Characteristics

### Coupling Cycles

500 coupling cycles (minimum), per TIA/EIA-455-21

### Shock

Per MIL-S-901, Lightweight, Grade A, Class I (Hammer Shock)

### Impact

8 drops from 8 feet, per TIA/EIA-455-2, Test Method B

### Crush Resistance

281 lbs, 7 loading cycles, per TIA/EIA-455-26

### Vibration - Sinusoidal

10 g peak, 5-500 Hz, 12 cycles (3 hours) per axis at ambient temperature, per TIA/EIA-455-11, Test Condition II

### Vibration - Random

10.2 g RMS, 50-2000 Hz, 30 minutes per axis at ambient temperature, per TIA/EIA-455-11, Test Condition VII-C

### Cable Pull Out Force - Termini

22 lbs min for 1 minute, per TIA/EIA-455-6

### Cable Pull Out Force - Connector

162 lbs min for 10 minutes, per TIA/EIA-455-6

### External Bending Moment

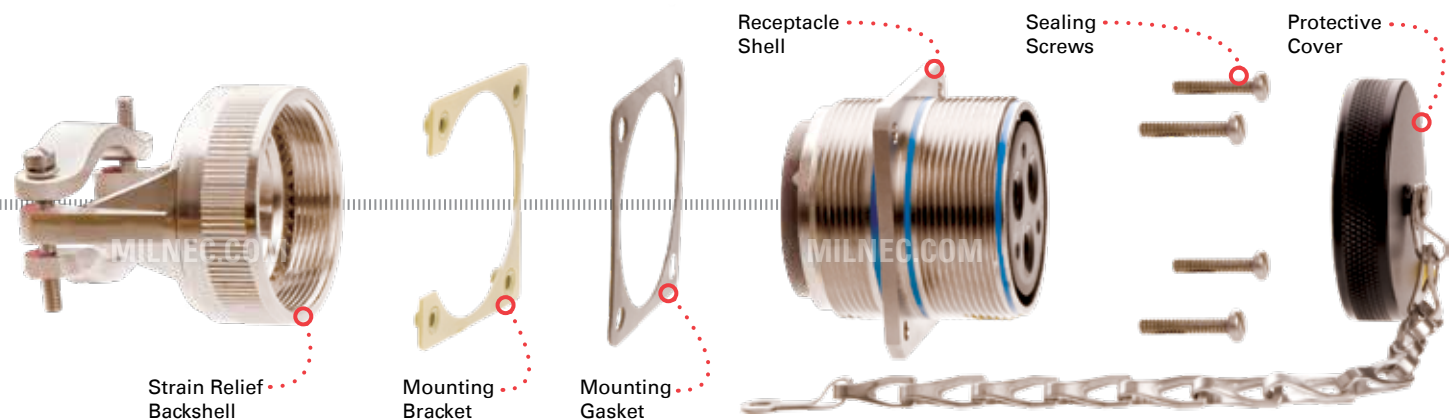
300 inch-lbs min for 1 minute

### Cable Seal Flexing

180° flex, 200 cycles, per TIA/EIA-455-1

### Cable Twist

360°±180° twist, 50 cycles, 11 lbs min tension, per TIA/EIA-455-36



Connectors shown for illustrative purposes only, actual design may differ.

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## Material Characteristics

### Shell

Aluminum alloy per ASTM B211

### Shell Plating

#### W Finish

Electrically conductive cadmium plate finish with an olive drab chromate after-treat for additional corrosion resistance (500 hr salt spray rating)

#### B Finish

Non-conductive hard anodize black finish with PTFE coating for additional corrosion resistance (500 hr salt spray rating)

### Insulator

High-grade engineering plastic per ASTM D5948

## Physical Characteristics

### Coupling

Threaded

### Polarization

Single master key and keyway on top position of shell

### Insert Arrangements

6 standard contact inserts available

### Key/Keyway Polarizations

Normal polarization (1), plus five alternate keyway polarizations (2, 3, 4, 5, 6)

## Contact Characteristics

### Contact Design

Removable, fiber optic termini

### Contact Size

#16

### Contact Material

Ferrule: zirconia ceramic

Terminus assembly: stainless steel/passivate

Retaining clip, spring washers: spring alloy

Seal: fluorosilicone

Crimp sleeve: brass alloy/nickel

### Max Number of Contacts

31 standard

## Contact Performance

### Optical Insertion Loss, Singlemode

-0.3 dB typical (9/125)

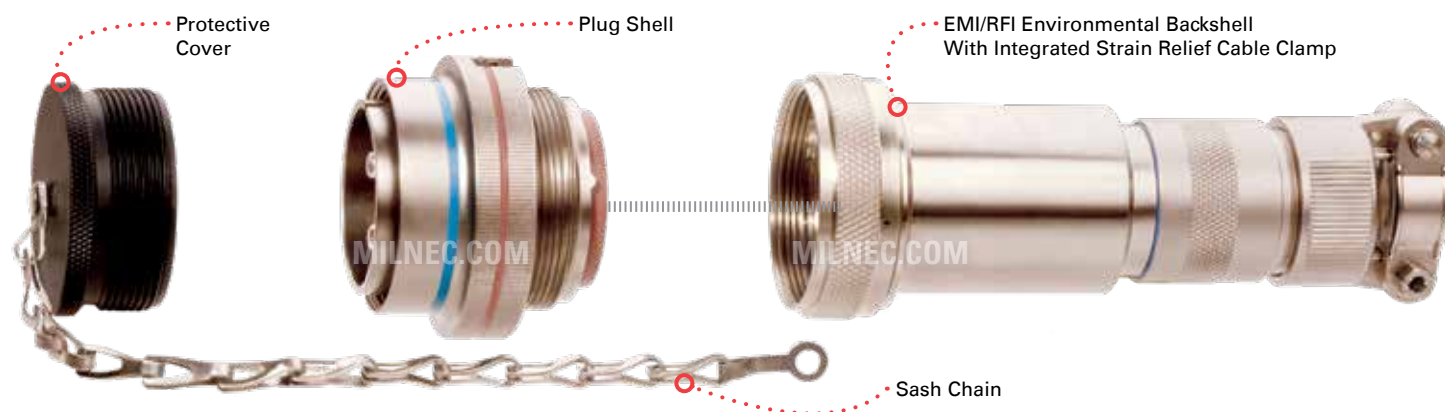
### Optical Insertion Loss, Multimode

-0.3 dB typical (62.5/125)

### Optical Back Reflection, Singlemode

Better than -40 dB - PC polish

Better than -50 dB - enhanced PC polish



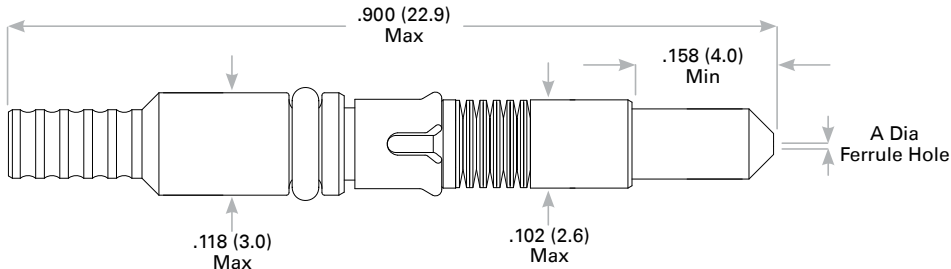
# Contact Specifications & Alternate Key Postions

NF Series • MIL-DTL-28876 Type Connectors

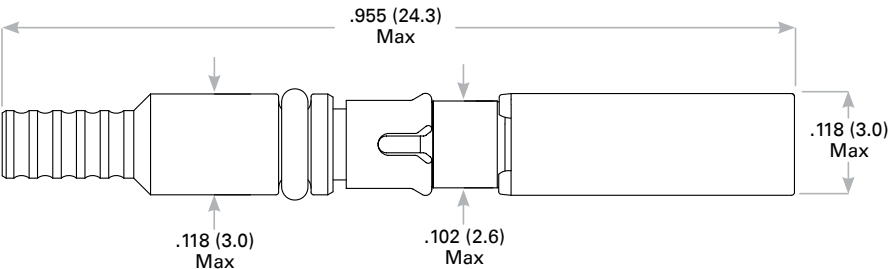
## Fiber Optic Termini, Dummies, & Tooling

Contact Size	Contact Style	Part Number	A (Microns)	Fiber Type	Fiber Size Core/Cladding (Microns)	Crimp Tool	Polishing Tool	Alignment Sleeve Insertion/Removal Tool	Straight Insertion Tool	Angled Insertion Tool	Extraction Tool
#16	Pin	NFPF16-140	125.0	Single Mode	9/125	TK012	PT035	TA016	TN013	TN014	TX015
	Pin	NFPF16-141	126.0	Single Mode	9/125						
	Pin	NFPF16-131	126.0	Multi Mode	50/125, 62.5/125						
	Pin	NFPF16-132	127.0	Multi Mode	50/125, 62.5/125						
	Pin	NFPF16-135	142.0	Multi Mode	100/140						
	Socket	NFSF16-180	125.0	Single Mode	9/125						
	Socket	NFSF16-181	126.0	Single Mode	9/125						
	Socket	NFSF16-171	126.0	Multi Mode	50/125, 62.5/125						
	Socket	NFSF16-172	127.0	Multi Mode	50/125, 62.5/125						
	Socket	NFSF16-175	142.0	Multi Mode	100/140						
	Crimp Sleeve	TS008									
	Alignment Sleeve	TA010	—	—	—						
	Dummy Terminus	NFSP16-038				—	—	—			

Pin Terminus

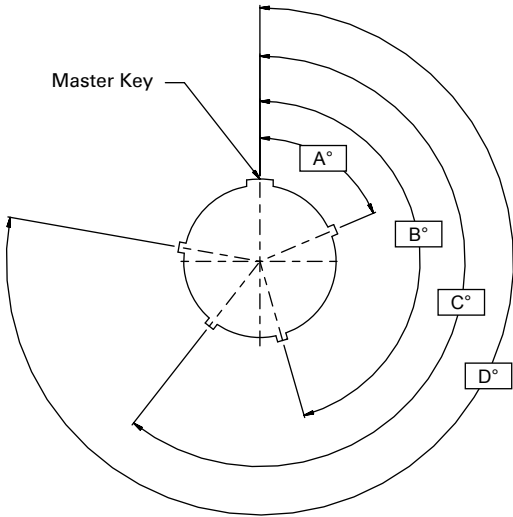


Socket Terminus



## Alternate Key Positions

Shell Size	Key & Keyway Arrangement	A°	B°	C°	D°
11, 13	1	95	141	208	236
	2	113	156	182	292
	3	90	145	195	252
	4	53	156	220	255
	5	119	146	176	298
	6	51	141	184	242
15, 23	1	80	142	196	293
	2	135	170	200	310
	3	49	169	200	244
	4	66	140	200	257
	5	62	145	180	280
	6	79	153	197	272



Plug Face View

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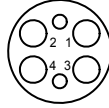
# Insert Arrangement Drawings

NF Series • MIL-DTL-28876 Type Connectors

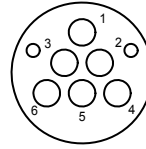
## Plug Face View



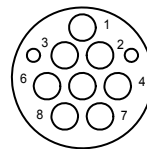
**11-2**  
(A1)  
2 x #16



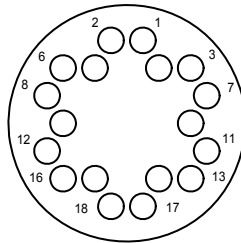
**13-4**  
(B1)  
4 x #16



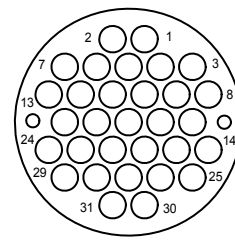
**15-6**  
(C2)  
6 x #16



**15-8**  
(C1)  
8 x #16



**23-18**  
(F2)  
18 x #16



**23-31**  
(F1)  
31 x #16

**MILNEC SHIPS CONNECTORS  
WORLDWIDE IN ONE WEEK**



## World Class Service, Worldwide

We know your project can't wait, so we provide tailor-made flexibility with off-the-shelf lead times. We employ the latest assembly and quality-control processes to build and test every connector we ship.

- Standard connector kits ship in just one week
- No order minimums, credit cards accepted
- Average ship time is 7 days
- Expedited builds available for critical requirements

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# Part Builder

NF Series • MIL-DTL-28876 Type Connectors

## How to Build Your NF Connector Part Number

A part number is comprised of a string of characters that represent the different elements of a connector. High-performance connectors are built to order from component form using a unique part number as a blueprint to specify particular characteristics. Each modifier of the part number represents a particular configuration.

Below is an example part number for a NF Series connector that designates, 1) NF Series wall mount receptacle, 2) olive drab cadmium finish on aluminum, 3) 15-8 insert arrangement, 4) pin contacts, 5) normal rotation, 6) environmental backshell (dash number indicates backshell size), and 7) integrated accessory kit. ■

**NF00 W 15-8 P 1 - E2(002) - 03**

1 2 3 4 5 6 7

### 1 Series Shell Style

#### Standard Environmental Shells

- NF06** Plug, p. NF-9  
.....  
**NF00** Wall mount receptacle, p. NF-13  
**NF01** Cable mount receptacle, p. NF-21  
**NF07** Jam nut receptacle, p. NF-17

### 2 Material & Finish

- W** Olive drab cadmium (aluminum)  
500 hr. salt spray rating  
**B** Black anodize With PTFE (aluminum)  
500 hr. salt spray rating

### 3 Shell Size & Insert Arrangement

See Insert Arrangement Drawings, p. NF-6

### 4 Contact Style

#### Standard Fiber Optic Termini

- P** #16 Pin  
**S** #16 Socket

### 5 Key Position

#### Normal Position

- 1** Normal

#### Alternate Key Positions

- 2, 3, 4, 5, 6** Alternate positions

See Alternate Key Positions table on p. NF-5.

### 6 Optional Backshell Kit (Omit for None)

#### Environmental Backshell

- E2 ( )** Straight, p. NF-22  
**E3 ( )** 45°, p. NF-23  
**E4 ( )** 90°, p. NF-24

Supply specific Dash No. on referenced datasheet page for appropriate connector shell size.

### 7 Optional Accessory Kit (Omit for None)

- 01 For Plugs:**  
Protective cover, p. NF-27  
**02 For Receptacles:**  
Protective cover, p. NF-27 +  
Mounting gasket, p. NF Z-25  
**03 For Receptacles:**  
Protective cover, p. NF-27 +  
Mounting gasket, p. NF-25 +  
Mounting bracket, p. NF-26  
with (4x) sealing screws

Kits with EMI/RFI Backshells will be supplied with NSGS RFI shielding gaskets.

# CONNECTOR SELECTION IS CRITICAL MAKE THE RIGHT CALL



## Connectors For Military Applications

We specialize in providing engineers with ruggedized cylindrical connectors built to meet military specifications. In addition, we offer a wide selection of protective accessories, backshells, and mounting hardware for even greater battlefield reliability. When specifying connectors for your next application, make the right call — Milnec.



# M28876/6 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors



Photo for example only

## NF06 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
<b>MIL-DTL-28876</b>	M28876/6	M28876/1, M28876/2, M28876/3, M28876/4, M28876/11, M28876/12, M28876/13, M28876/14
<b>Amphenol</b>	FS3M1, FS3M2, FS3M3	FS3M4, FS3M5, FS3M6, FS3M7, FS3M8, FS3M9

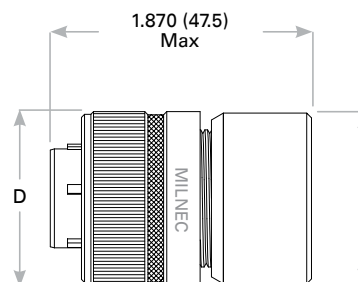
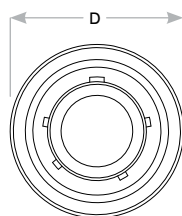
## NF06 W 15-8 S 1 - E2(001) - 01

- 1 **BASIC PART NUMBER**  
NF06 Fiber optic plug
- 2 **MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- 4 **TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- 5 **ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- 6 **OPTIONAL BACKSHELL KIT** (OMIT FOR NONE)  
E2( ) Straight environmental  
(Add dash number, see p. NF-22)  
E3( ) 45° environmental backshell  
(Add dash number, see p. NF-23)  
E4( ) 90° environmental backshell  
(Add dash number, see p. NF-24)
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
01 Protective cover

## Dimensions

Shell Size	Military Shell Size	D Max	B Max
11	A	1.028 (26.1)	.960 (24.4)
13	B	1.141 (29.0)	1.085 (27.6)
15	C	1.263 (32.1)	1.255 (31.9)
23	F	1.705 (43.3)	1.695 (43.1)

Dimensions are in inches (mm).



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# M28876/7 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors

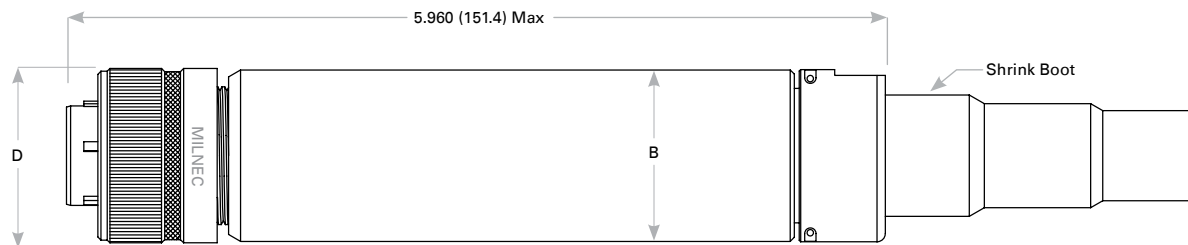
**NF06 W 15-8 P 1 - E2(001) - 01**



- 1 **BASIC PART NUMBER**  
NF06 Fiber optic plug
- 2 **MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- 4 **TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- 5 **ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- 6 **BACKSHELL KIT**  
E2( ) Straight environmental backshell  
(Add dash number for size, see Backshell table)
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
01 Protective cover

## NF06 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/7	M28876/1, M28876/2, M28876/3, M28876/4, M28876/11, M28876/12, M28876/13, M28876/14
Amphenol	FS3M1, FS3M2, FS3M3	FS3M4, FS3M5, FS3M6, FS3M7, FS3M8, FS3M9



## Dimensions

Shell Size	Military Shell Size	D Max	B Max
11	A	1.028 (26.1)	0.960 (24.4)
13	B	1.141 (29.0)	1.085 (27.6)
15	C	1.263 (32.1)	1.255 (31.9)
23	F	1.705 (43.3)	1.763 (44.8)

Dimensions are in inches (mm).

## Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)

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# M28876/8 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors

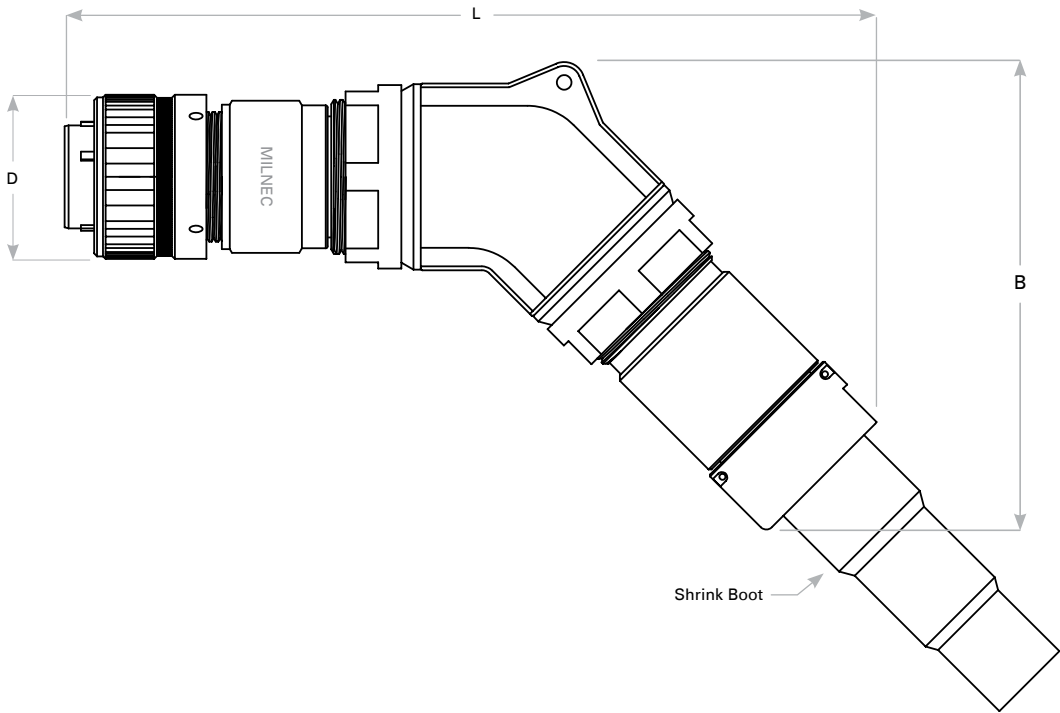


## NF06 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/8	M28876/1, M28876/2, M28876/3, M28876/4, M28876/11, M28876/12, M28876/13, M28876/14
Amphenol	FS3M1, FS3M2, FS3M3	FS3M4, FS3M5, FS3M6, FS3M7, FS3M8, FS3M9

## NF06 W 15-8 P 1 - E3(001) - 01

- BASIC PART NUMBER**  
NF06 Fiber optic plug
- MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- BACKSHELL KIT**  
E3( ) 45° environmental backshell  
(Add dash number for size, see Backshell table)
- OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
01 Protective cover



## Dimensions

Shell Size	Military Shell Size	D Max	L Max	B Max
11	A	1.028 (26.1)	6.090 (154.7)	3.540 (89.9)
13	B	1.141 (29.0)	6.160 (156.5)	3.580 (90.9)
15	C	1.263 (32.1)	6.440 (163.6)	3.850 (97.8)
23	F	1.705 (43.3)	7.350 (186.7)	5.000 (127.0)

Dimensions are in inches (mm).

## Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)

# M28840/9 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors

## NF06 W 15-8 P 1 - E4(001) - 01

- 1 **BASIC PART NUMBER**  
NF06 Fiber optic plug
- 2 **MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- 4 **TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- 5 **ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- 6 **BACKSHELL KIT**  
E4( ) 90° environmental backshell  
(Add dash number for size, see Backshell table)
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
01 Protective cover



### NF06 Cross Reference & Compatibility

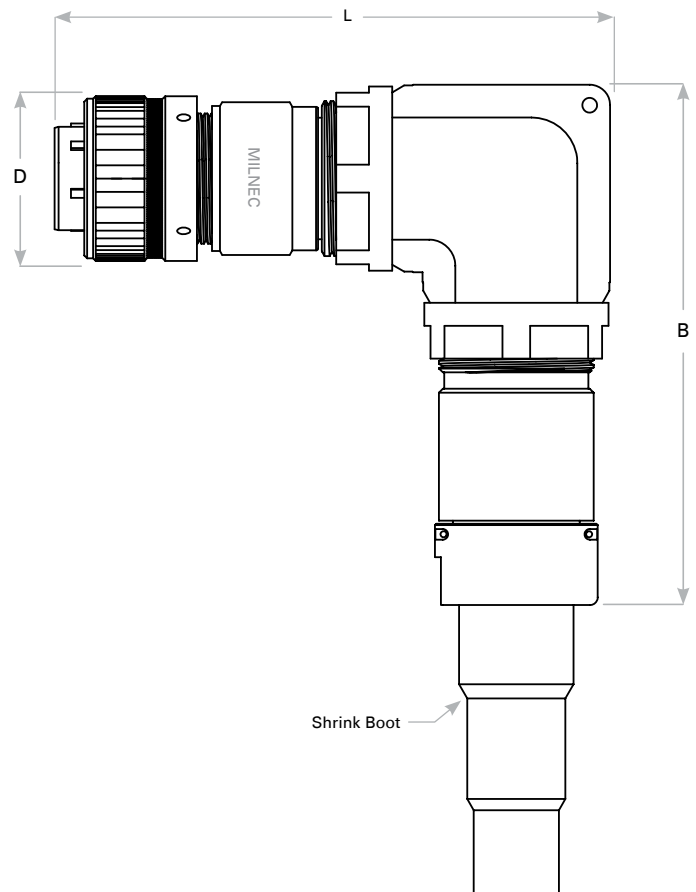
Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/9	M28876/1, M28876/2, M28876/3, M28876/4, M28876/11, M28876/12, M28876/13, M28876/14
Amphenol	FS3M1, FS3M2, FS3M3	FS3M4, FS3M5, FS3M6, FS3M7, FS3M8, FS3M9

### Dimensions

Shell Size	Military Shell Size	D Max	L Max	B Max
11	A	1.028 (26.1)	4.190 (106.4)	4.250 (108.0)
13	B	1.141 (29.0)	4.190 (106.4)	4.250 (108.0)
15	C	1.263 (32.1)	4.440 (112.8)	4.500 (114.3)
23	F	1.705 (43.3)	4.850 (123.2)	5.000 (127.0)

### Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)



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# M28876/1 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors



Photo for example only

## NF00 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/1	MS28876/6, MS28876/7, MS28876/8, MS28876/9
Amphenol	FS3M4, FS3M6, FS3M7	FS3M1, FS3M2, FS3M3

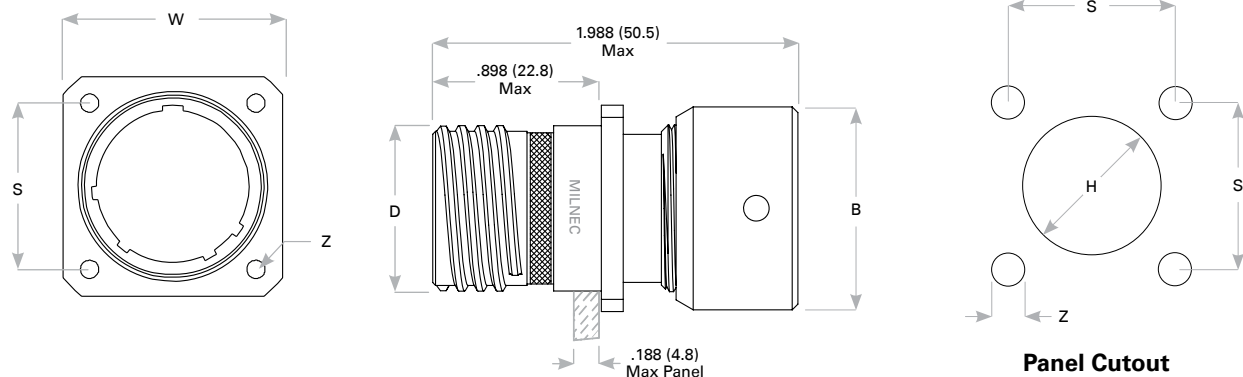
## NF00 W 15-8 S 1 - E2(001) - 02

- 1 **BASIC PART NUMBER**  
NF00 Fiber optic wall mount receptacle
- 2 **MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- 4 **TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- 5 **ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- 6 **OPTIONAL BACKSHELL KIT** (OMIT FOR NONE)  
E2( ) Straight environmental  
(Add dash number, see p. NF-22)  
E3( ) 45° environmental backshell  
(Add dash number, see p. NF-23)  
E4( ) 90° environmental backshell  
(Add dash number, see p. NF-24)
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
02 Protective cover + mounting gasket  
03 02 kit + mounting bracket + sealing screws

## Dimensions

Shell Size	Military Shell Size	W Max ± .020	S	D Max	B Max	Z Max	H
11	A	1.022 (26.0)	.750 (19.1)	.750 (19.1)	.960 (24.4)	.130 (3.3)	.812 (20.6)
13	B	1.137 (28.9)	.843 (21.4)	.875 (22.2)	1.085 (27.6)	.130 (3.3)	.937 (23.8)
15	C	1.257 (31.9)	.968 (24.6)	1.062 (27.0)	1.255 (31.9)	.130 (3.3)	1.124 (28.6)
23	F	1.718 (43.6)	1.281 (32.5)	1.500 (38.1)	1.695 (43.1)	.130 (3.3)	1.562 (39.7)

Dimensions are in inches (mm).



Panel Cutout

# M28876/2 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors

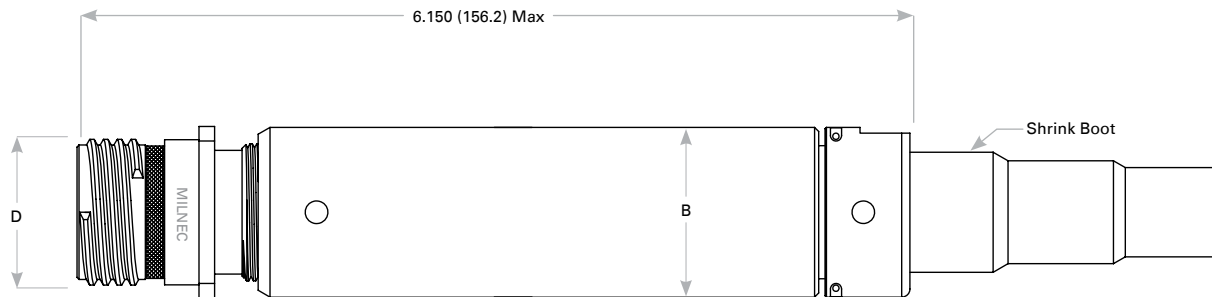
**NF00 W 15-8 S 1 - E2(001) - 02**



## NF00 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
<b>MIL-DTL-28876</b>	M28876/2	MS28876/6, MS28876/7, MS28876/8, MS28876/9
<b>Amphenol</b>	FS3M4, FS3M6, FS3M7	FS3M1, FS3M2, FS3M3

- 1 **BASIC PART NUMBER**  
NF00 Fiber optic wall mount receptacle
- 2 **MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- 4 **TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- 5 **ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- 6 **BACKSHELL KIT**  
E2( ) Straight environmental  
(Add dash number for size, see Backshell table)
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
02 Protective cover + mounting gasket  
03 02 kit + mounting bracket + sealing screws



## Dimensions

Shell Size	Military Shell Size	D Max	B Max
11	A	.750 (19.1)	0.960 (24.4)
13	B	.875 (22.2)	1.085 (27.6)
15	C	1.062 (27.0)	1.256 (31.9)
23	F	1.500 (38.1)	1.763 (44.8)

Dimensions are in inches (mm).

## Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)

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# M28876/3 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors



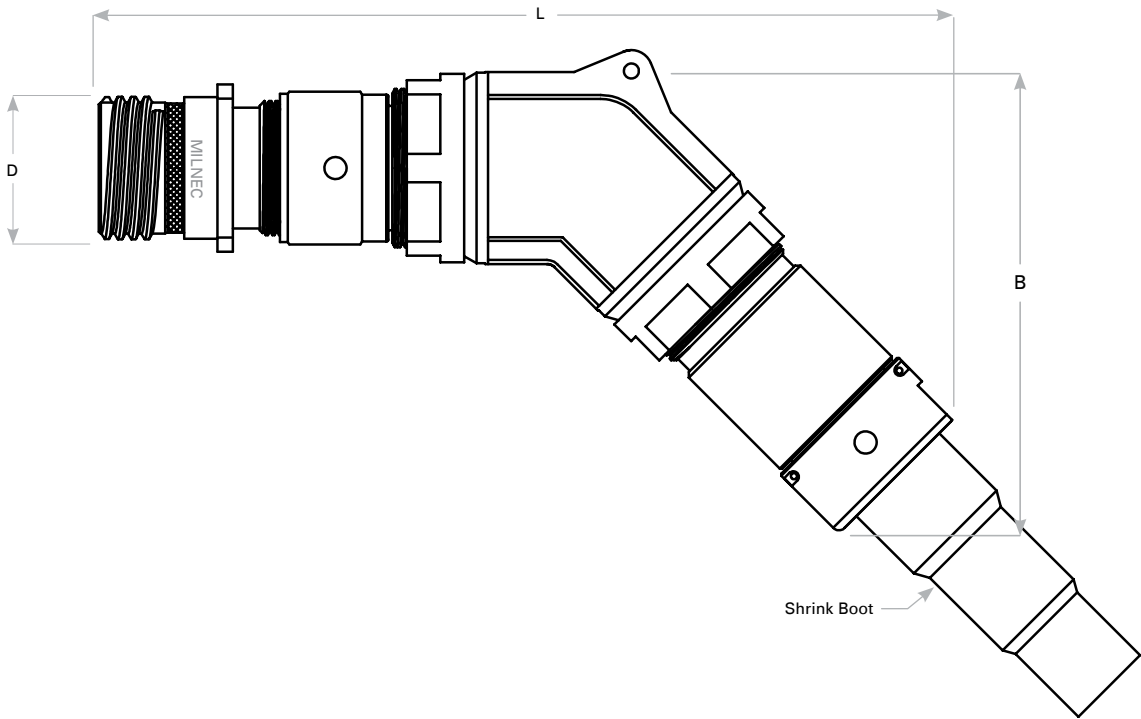
Photo for example only

## NF00 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/3	MS28876/6, MS28876/7, MS28876/8, MS28876/9
Amphenol	FS3M4, FS3M6, FS3M7	FS3M1, FS3M2, FS3M3

## NF00 W 15-8 P 1 - E3(001) - 01

- BASIC PART NUMBER**  
NF00 Fiber optic wall mount receptacle
- MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- BACKSHELL KIT**  
E3( ) 45° environmental backshell  
(Add dash number for size, see Backshell table)
- OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
02 Protective cover + mounting gasket  
03 02 kit + mounting bracket + sealing screws



## Dimensions

Shell Size	Military Shell Size	D Max	L Max	B Max
11	A	.750 (19.1)	6.150 (156.2)	3.540 (89.9)
13	B	.875 (22.2)	6.220 (158.0)	3.580 (90.9)
15	C	1.062 (27.0)	6.500 (165.1)	3.850 (97.8)
23	F	1.500 (38.1)	7.500 (190.5)	5.000 (127.0)

Dimensions are in inches (mm).

## Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)



# M28876/4 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors

**NF00 W 15-8 P 1 - E4(001) - 01**

- 1 **BASIC PART NUMBER**  
NF00 Fiber optic wall mount receptacle
- 2 **MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- 4 **TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- 5 **ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- 6 **BACKSHELL KIT**  
E4( ) 90° environmental backshell  
(Add dash number for size, see Backshell table)
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
02 Protective cover + mounting gasket  
03 02 kit + mounting bracket + sealing screws



## NF00 Cross Reference & Compatibility

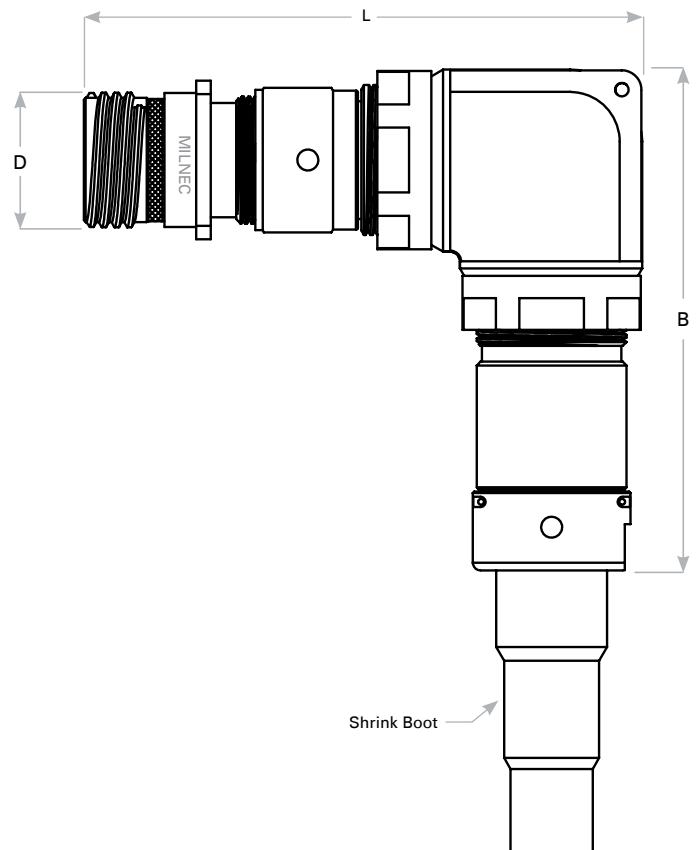
Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/4	MS28876/6, MS28876/7, MS28876/8, MS28876/9
Amphenol	FS3M4, FS3M6, FS3M7	FS3M1, FS3M2, FS3M3

## Dimensions

Shell Size	Military Shell Size	D Max	L Max	B Max
11	A	.750 (19.1)	4.250 (108.0)	4.250 (108.0)
13	B	.875 (22.2)	4.250 (108.0)	4.250 (108.0)
15	C	1.062 (27.0)	4.500 (114.3)	4.500 (114.3)
23	F	1.500 (38.1)	5.000 (127.0)	5.000 (127.0)

## Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)



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# M28876/11 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors



## NF07 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/11	M28876/6, M28876/7, M28876/8, M28876/9
Amphenol	FS3M4, FS3M6, FS3M7	FS3M1, FS3M2, FS3M3

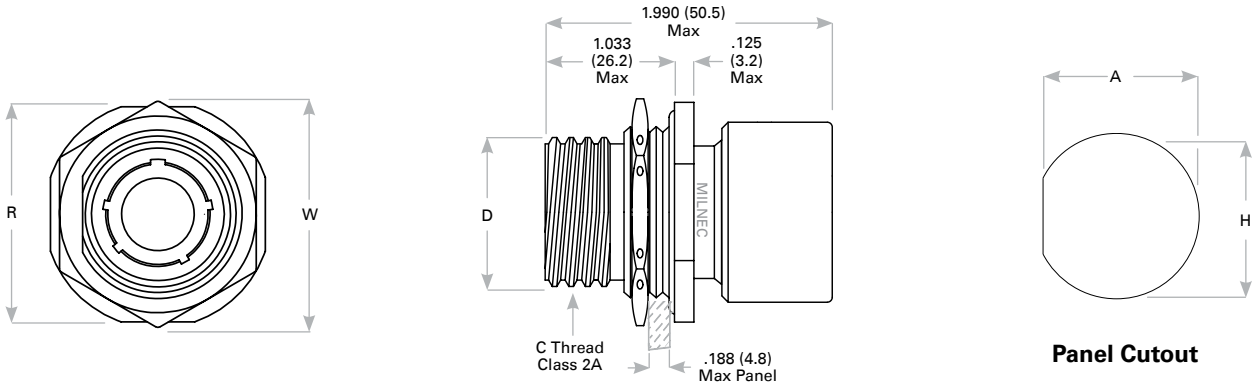
## NF07 W 15-8 S 1 - E2(001) - 02

- BASIC PART NUMBER**  
NF07 Fiber optic jam nut receptacle
- MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- OPTIONAL BACKSHELL KIT** (OMIT FOR NONE)  
E2( ) Straight environmental  
(Add dash number, see p. NF-22)  
E3( ) 45° environmental backshell  
(Add dash number, see p. NF-23)  
E4( ) 90° environmental backshell  
(Add dash number, see p. NF-24)
- OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
02 Protective cover

## Dimensions

Shell Size	Military Shell Size	R Flat ±.010	W Hex Max	D Max	H ±.005	A ±.005
11	A	1.264 (32.1)	1.290 (32.8)	.750 (19.1)	.885 (22.5)	.848 (21.5)
13	B	1.389 (35.3)	1.435 (35.9)	.875 (22.2)	1.010 (25.7)	.973 (24.7)
15	C	1.577 (40.1)	1.650 (41.9)	1.062 (27.0)	1.198 (30.4)	1.160 (29.5)
17	F	2.004 (50.9)	2.093 (53.2)	1.500 (38.1)	1.635 (41.5)	1.593 (40.5)

Dimensions are in inches (mm).



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# M28876/12 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors

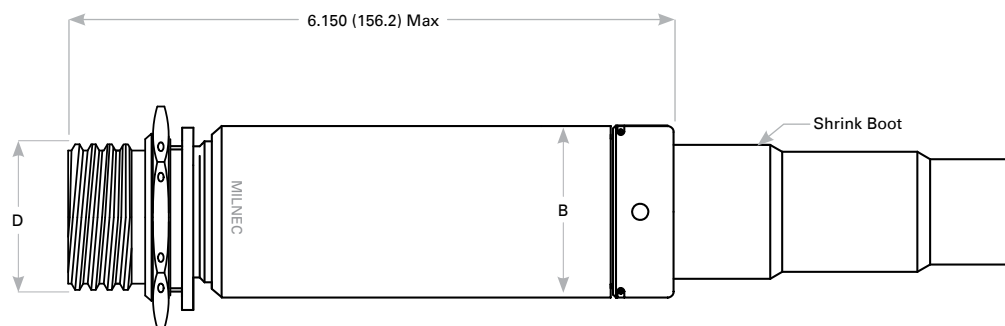
**NF07 W 15-8 S 1 - E2(001) - 02**



Photo for example only

## NF07 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
<b>MIL-DTL-28876</b>	M28876/12	MS28876/6, MS28876/7, MS28876/8, MS28876/9
<b>Amphenol</b>	FS3M4, FS3M6, FS3M7	FS3M1, FS3M2, FS3M3



## Dimensions

Shell Size	Military Shell Size	D Max	B Max
11	A	.750 (19.1)	.960 (24.4)
13	B	.875 (22.2)	1.085 (27.6)
15	C	1.062 (27.0)	1.255 (31.9)
23	F	1.500 (38.1)	1.763 (44.8)

Dimensions are in inches (mm).

## Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)

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# M28876/13 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors



## NF07 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/13	MS28876/6, MS28876/7, MS28876/8, MS28876/9
Amphenol	FS3M4, FS3M6, FS3M7	FS3M1, FS3M2, FS3M3

## NF07 W 15-8 P 1 - E3(001) - 02

- 1

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- BASIC PART NUMBER**  
NF07 Fiber optic jam nut receptacle

**MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE

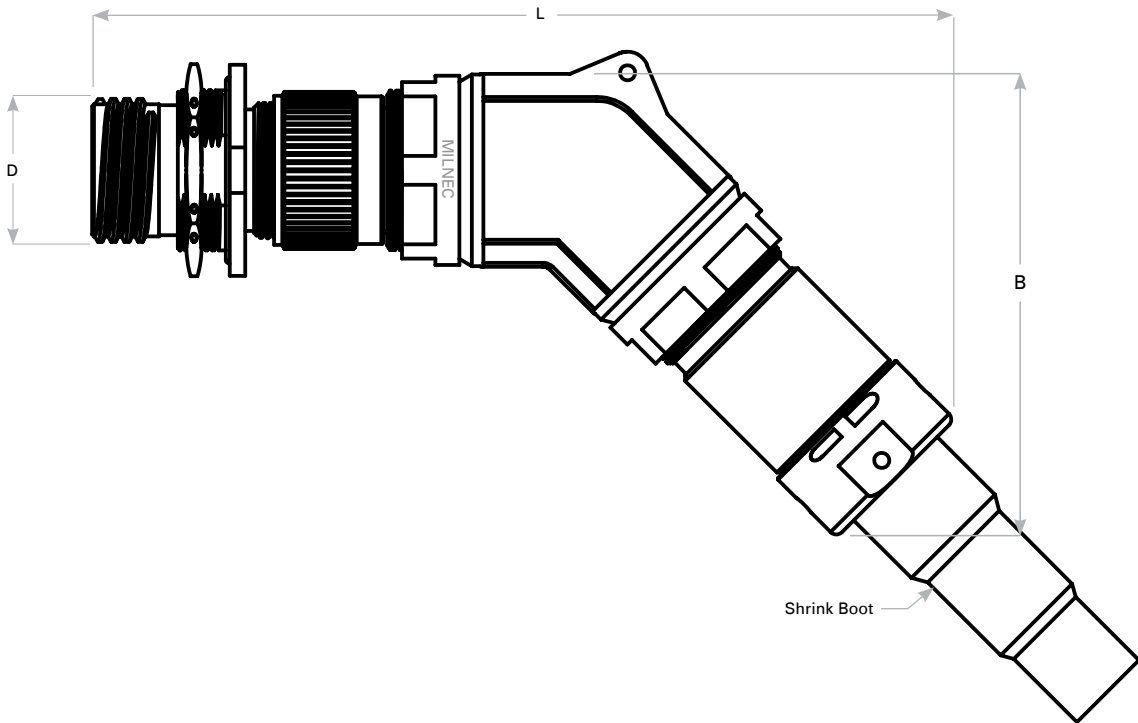
**SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6

**TERMINUS STYLE (TERMINI NOT INCLUDED)**  
P Pin  
S Socket

**ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6

**BACKSHELL KIT**  
E3( ) 45° environmental backshell  
(Add dash number for size, see Backshell table)

**OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
02 Protective cover



## Dimensions

Shell Size	Military Shell Size	D Max	L Max	B Max
11	A	.750 (19.1)	6.150 (156.2)	3.540 (89.9)
13	B	.875 (22.2)	6.250 (159.0)	3.580 (90.9)
15	C	1.062 (27.0)	6.500 (165.1)	3.850 (97.8)
23	F	1.500 (38.1)	7.500 (190.5)	5.000 (127.0)

Dimensions are in inches (mm).

## Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)

# M28876/14 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors

## NF07 W 15-8 P 1 - E4(001) - 02

- 1 **BASIC PART NUMBER**  
NF07 Fiber optic jam nut receptacle
- 2 **MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- 4 **TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- 5 **ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- 6 **BACKSHELL KIT**  
E4( ) 90° environmental backshell  
(Add dash number for size, see Backshell table)
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
02 Protective cover



### NF07 Cross Reference & Compatibility

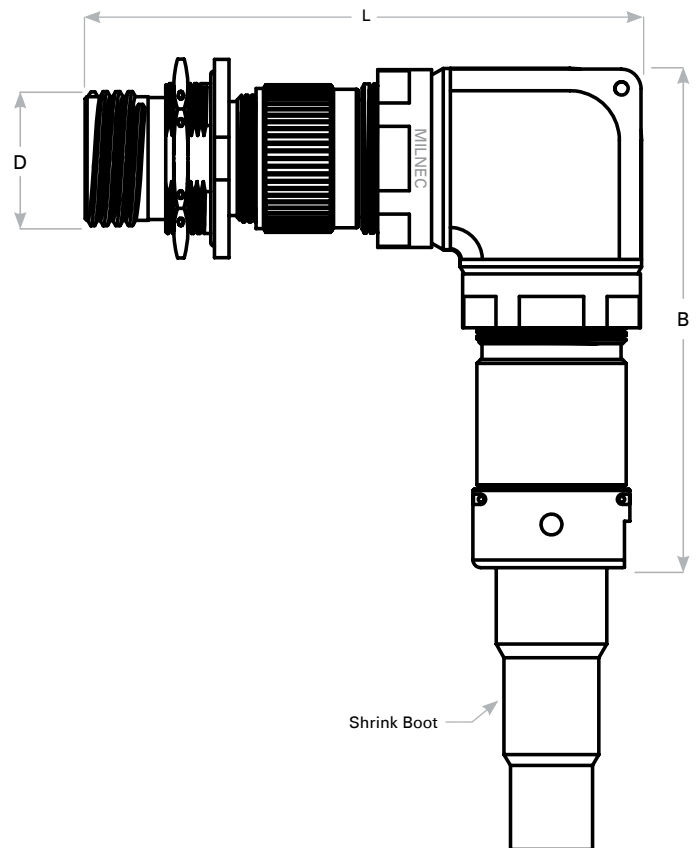
Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/14	MS28876/6, MS28876/7, MS28876/8, MS28876/9
Amphenol	FS3M4, FS3M6, FS3M7	FS3M1, FS3M2, FS3M3

### Dimensions

Shell Size	Military Shell Size	D Max	L Max	B Max
11	A	.750 (19.1)	4.250 (108.0)	4.250 (108.0)
13	B	.875 (22.2)	4.250 (108.0)	4.250 (108.0)
15	C	1.062 (27.0)	4.500 (114.3)	4.500 (114.3)
23	F	1.500 (38.1)	5.000 (127.0)	5.000 (127.0)

### Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)





# M28876/5 Connector Type Datasheet

NF Series • MIL-DTL-28876 Type Connectors



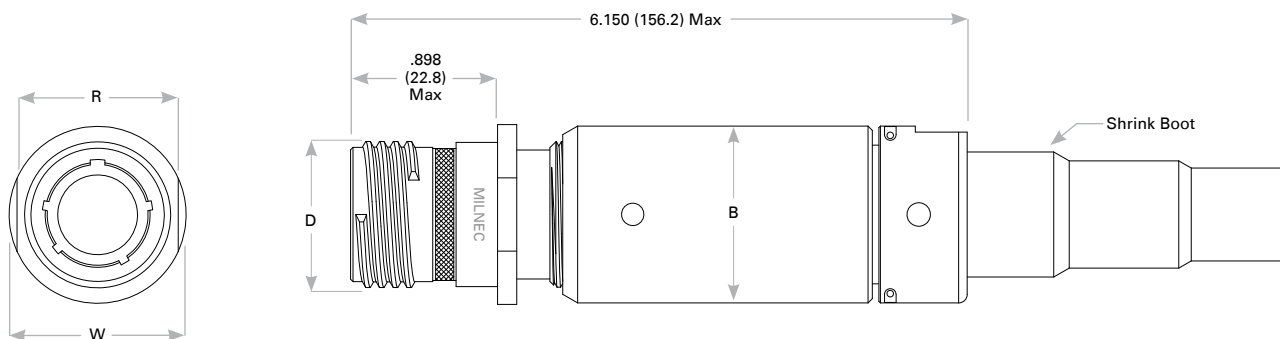
Photo for example only

## NF01 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-28876	M28876/5	MS28876/6, MS28876/7, MS28876/8, MS28876/9
Amphenol	FS3M4, FS3M6, FS3M7	FS3M1, FS3M2, FS3M3

## NF01 W 15-8 S 1 - E2(001) - 02

- 1 **BASIC PART NUMBER**  
NF01 Fiber optic cable receptacle
- 2 **MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Drawings, p. NF-6
- 4 **TERMINUS STYLE** (TERMINI NOT INCLUDED)  
P Pin  
S Socket
- 5 **ALTERNATE KEYING**  
1 or 2, 3, 4, 5, 6
- 6 **BACKSHELL KIT**  
E2( ) Straight environmental  
(Add dash number for size, see Backshell table)
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
02 Protective cover



## Dimensions

Shell Size	Military Shell Size	R	W Max	D Max	B Max
11	A	.768 (19.5)	.963 (24.5)	.750 (19.1)	0.960 (24.4)
13	B	.893 (22.7)	1.088 (27.6)	.875 (22.2)	1.085 (27.6)
15	C	1.080 (27.4)	1.275 (32.4)	1.062 (27.0)	1.255 (31.9)
23	F	1.518 (38.6)	1.719 (43.7)	1.500 (38.1)	1.763 (44.8)

Dimensions are in inches (mm).

## Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)

# M28876 Type Straight Backshell Datasheet

NF Series • MIL-DTL-28876 Type Connectors

## NFE2 - 15 - 002 W

- 1

2

3

4
- 1

2

3

4
- BASIC PART NUMBER**  
NFE2 Straight backshell

**SHELL SIZE**  
11 or 13, 15, 23

**DASH NO.**  
See Backshell table

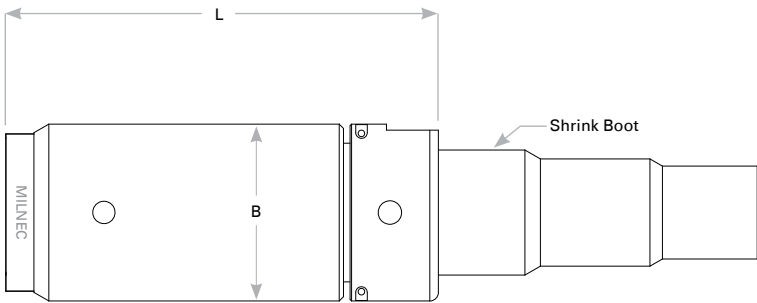
**MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE



Photo for example only

### NFE2 Compatibility

Compatible Brands	Connectors
MIL-DTL-28876	MS28876/1, MS28876/2, MS28876/6, MS28876/7, MS28876/11, MS28876/12, MS28876/27
Amphenol	FS3M1, FS3M2, FS3M3, FS3M4, FS3M5, FS3M6, FS3M7, FS3M8, FS3M9



### Dimensions

Shell Size	Military Shell Size	L Max	B Max
11	A	4.00 (101.6)	1.20 (30.5)
13	B	4.00 (101.6)	1.20 (30.5)
15	C	4.70 (119.4)	1.50 (38.0)
23	F	6.50 (165.1)	2.250 (57.2)

Dimensions are in inches (mm).

### Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)

# M28876 Type 45° Backshell Datasheet

NF Series • MIL-DTL-28876 Type Connectors



## NFE3 - 15 - 002 W

- 1

2

3

4
- 1

2

3

4
- BASIC PART NUMBER**  
NFE3 45° backshell

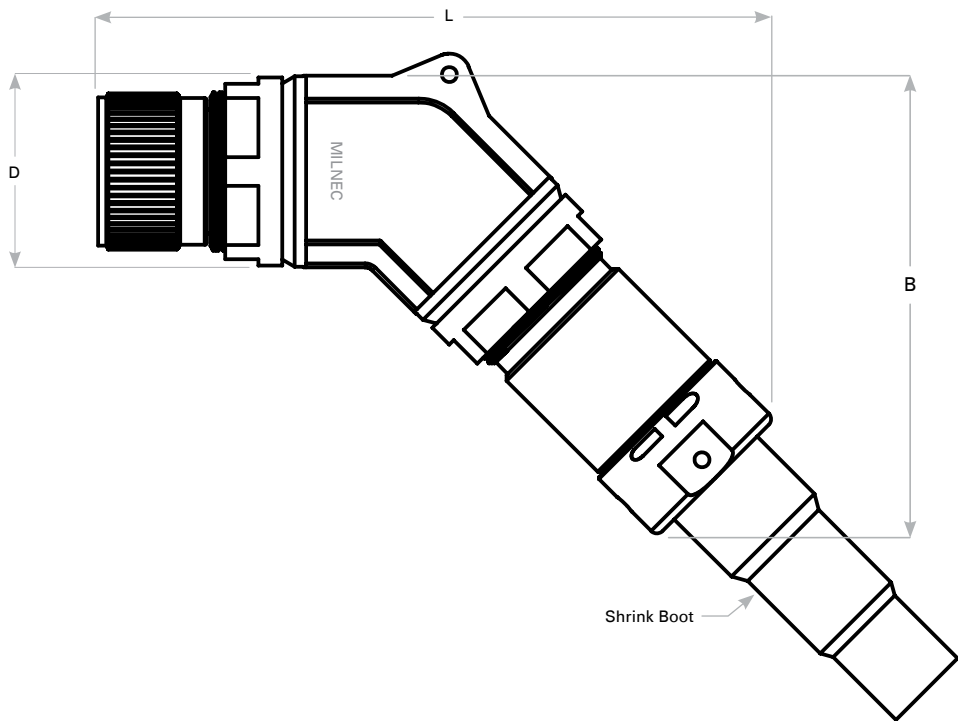
**SHELL SIZE**  
11 or 13, 15, 23

**DASH NO.**  
See Backshell table

**MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE

### NFE3 Compatibility

Compatible Brands	Connectors
MIL-DTL-28876	MS28876/1, MS28876/3, MS28876/6, MS28876/8, MS28876/11, MS28876/13, MS28876/28
Amphenol	FS3M1, FS3M2, FS3M3, FS3M4, FS3M5, FS3M6, FS3M7, FS3M8, FS3M9



### Dimensions

Shell Size	Military Shell Size	D Max	L Max	B Max
11	A	1.20 (30.5)	6.150 (156.2)	3.540 (89.9)
13	B	1.20 (30.5)	6.250 (159.0)	3.580 (90.9)
15	C	1.30 (33.0)	6.500 (165.1)	3.850 (97.8)
23	F	2.25 (57.2)	7.500 (190.5)	5.000 (127.0)

Dimensions are in inches (mm).

### Backshell


Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)

Rev. 2243

# M28876 Type 90° Backshell Datasheet

## NF Series • MIL-DTL-28876 Type Connectors

**NFE4 - 15 - 002 W**

- 
- 1 BASIC PART NUMBER**  
NFE4 90° backshell
- 2 SHELL SIZE**  
11 or 13, 15, 23
- 3 DASH NO.**  
See Backshell table
- 4 MATERIAL & FINISH**  
W Aluminum, olive drab  
B Aluminum, hard anodized



## NFE4 Compatibility

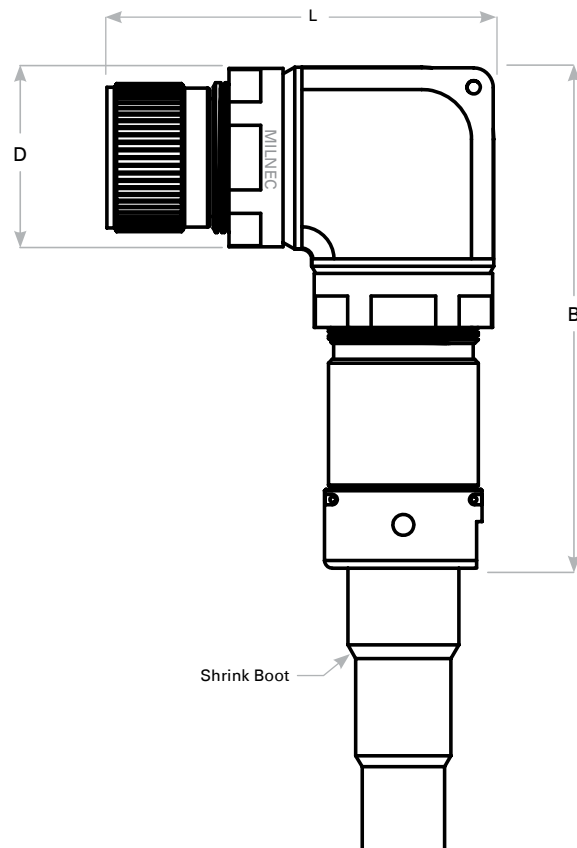
Compatible Brands	Connectors
MIL-DTL-28876	MS28876/1, MS28876/4, MS28876/6, MS28876/9, MS28876/11, MS28876/14, MS28876/29
Amphenol	FS3M1, FS3M2, FS3M3, FS3M4, FS3M5, FS3M6, FS3M7, FS3M8, FS3M9

## Dimensions

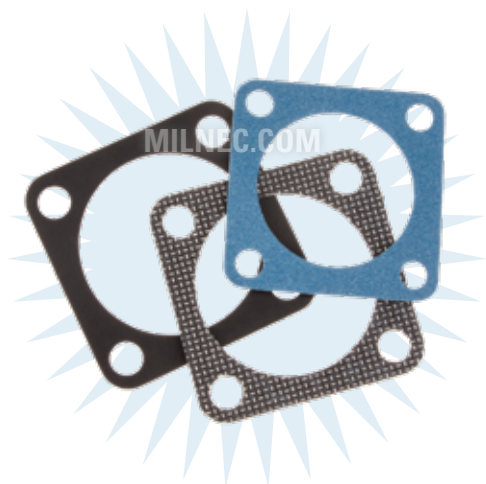
Shell Size	Military Shell Size	D Max	L Max	B Max
11	A	1.201 (30.5)	3.201 (81.3)	4.250 (108.0)
13	B	1.201 (30.5)	3.201 (81.3)	4.250 (108.0)
15	C	1.300 (33.00)	3.201 (81.3)	4.500 (114.3)
23	F	2.252 (57.2)	5.000 (126.5)	5.000 (127.0)

## Backshell

Dash No.	Max Cable Clearance by Shell Size			
	11	13	15	23
001	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
002	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
003	—	.453 (11.5)	.375 (9.5)	.600 (15.2)



*NF Series • MIL-DTL-28876 Type Connectors*



## NFGE Compatibility

Compatible Brands	Connectors
MIL-DTL-28876	MS28876/1, MS28876/2, MS28876/3, MS28876/4
Amphenol	FS3M4, FS3M6, FS3M7

**NFGE - 15**

### 1 BASIC PART NUMBER

**NFGE** Neoprene environmental (weather resistant)  
Temp. range -40°F to +230°F (-40°C to +110°C)

**NFGS** Conductive EMI-RFI neoprene, Ni-Cu mesh  
Temp. range -40°F to +230°F (-40°C to +110°C)

**NFGL** Fluorosilicone (jet fuel & oil resistant)  
Temp. range -70°F to +392°F (-56°C to +200°C)  
Per MIL-DTL-25988, Class 1, Grade 6

**NFGD** Conductive EMI-RFI fluorosilicone, Al-Ag filled  
Temp. range -70°F to +392°F (-56°C to +200°C)  
Shielding effectiveness at 90 dB @ 10 GHz  
Per MIL-DTL-83528, Type D

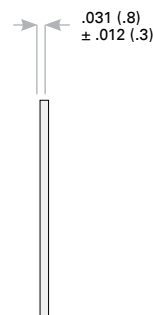
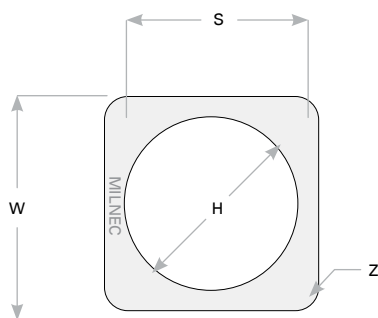
## 2 SHELL SIZE

See Dimensions table below

## Dimensions

Shell Size	Military Shell Size	W Max	S Max	Z Max	H Max
11	A	1.039 (26.4)	.760 (19.3)	.130 (3.3)	.766 (19.5)
13	B	1.154 (29.3)	.853 (21.7)	.130 (3.3)	.891 (22.6)
15	C	1.274 (32.4)	.978 (24.8)	.130 (3.3)	1.078 (27.4)
23	F	1.734 (44.4)	1.291 (32.8)	.130 (3.3)	1.516 (38.5)

Dimensions are in inches (mm).



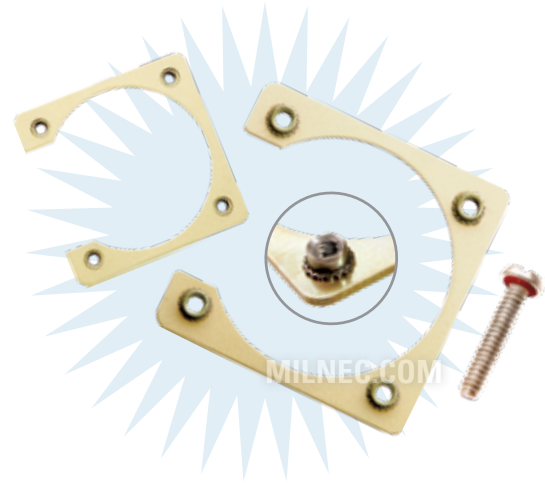


# M28876 Mounting Bracket & Screws

NF Series • MIL-DTL-28876 Type Connectors

## NFMB - 15 - A

- 1 **BASIC PART NUMBER**  
**NFMB** Mounting bracket, aluminium alloy  
with SST locking nuts
- 2 **SHELL SIZE**  
See Dimensions table below
- 3 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)
  - A** Self-sealing SST fillister head screws (4x)
  - B** A kit + environmental gasket
  - D** A kit + fluorosilicone EMI/RFI gasket



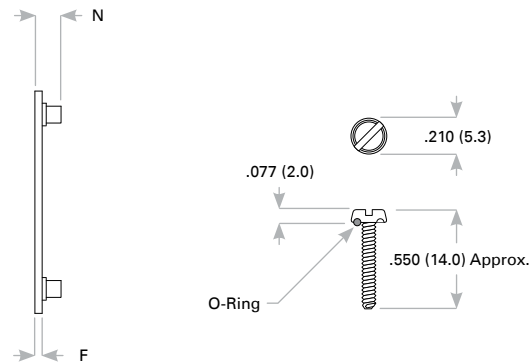
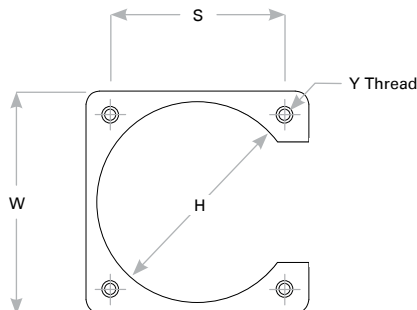
## NFMB Compatibility

Compatible Brands	Connectors
<b>MIL-DTL-28876</b>	MS28876/1, MS28876/2, MS28876/3, MS28876/4
<b>Amphenol</b>	FS3M4, FS3M6, FS3M7

## Dimensions

Shell Size	Military Shell Size	W	S Max	H Max	N	F	Screw Size	Y Thread
11	A	1.039 (26.4)	.760 (19.3)	.766 (19.5)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
13	B	1.154 (29.3)	.853 (21.7)	.891 (22.6)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
15	C	1.274 (32.4)	.978 (24.8)	1.078 (27.4)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
23	F	1.734 (44.4)	1.291 (32.8)	1.516 (38.5)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B

Dimensions are in inches (mm).



Rev. 2243

# M28876 Type Dust Cap Datasheet

NF Series • MIL-DTL-28876 Type Connectors



Photo for example only

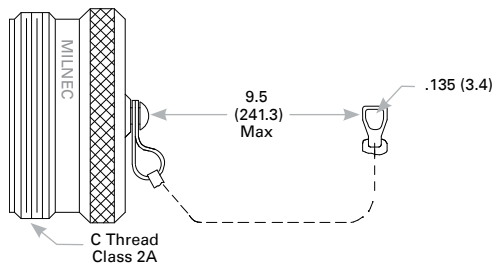
## NFCP Compatibility

Compatible Brands	Connectors
MIL-DTL-28840	MS28876/1, MS28876/2, MS28876/3, MS28876/4, MS28876/5, MS28876/6, MS28876/7, MS28876/8, MS28876/9, MS28876/11, MS28876/12, MS28876/13, MS28876/14
Amphenol	FS3M1, FS3M2, FS3M3, FS3M4, FS3M5, FS3M6, FS3M7, FS3M8, FS3M9

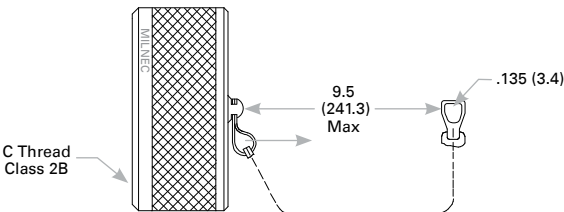
## NFCP - 15 W E

- BASIC PART NUMBER**  
NFCP Plug cover  
NFCR Receptacle cover
- SHELL SIZE**  
11 or 13, 15, 23
- MATERIAL & FINISH**  
W Aluminum, olive drab cadmium  
B Aluminum, hard anodize with PTFE
- ATTACHMENT TYPE**  
E Eyelet attachment on wire rope  
J Jam nut ring attachment on wire rope  
(For use with NF07 jam nut receptacles)

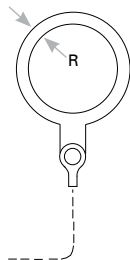
Note: Contact an authorized distributor for other materials and finishes.



Plug Cover



Receptacle Cover



Jam Nut Ring Attachment

## Cover Dimensions

Shell Size	Military Shell Size	C Thread Class 2A/2B	R ±.015
11	A	.750-0.1P-0.2L-D.S.	.115 (2.9)
13	B	.875-0.1P-0.2L-D.S.	.115 (2.9)
15	C	1.062-0.1P-0.2L-D.S.	.115 (2.9)
23	F	1.500-0.1P-0.2L-D.S.	.115 (2.9)

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3947 West Lincoln Highway #192  
Downingtown, PA 19335

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