

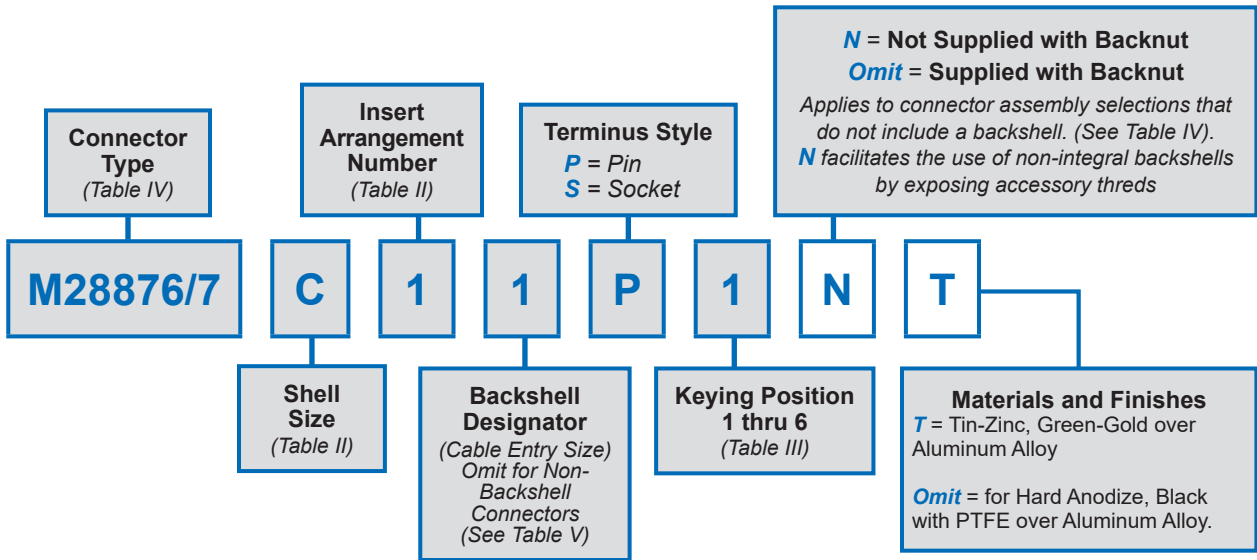


**MIL-PRF-28876 QPL Fiber Optic Connectors**  
**M28876/1 through /14**  
**180-040**  
**How to Order**

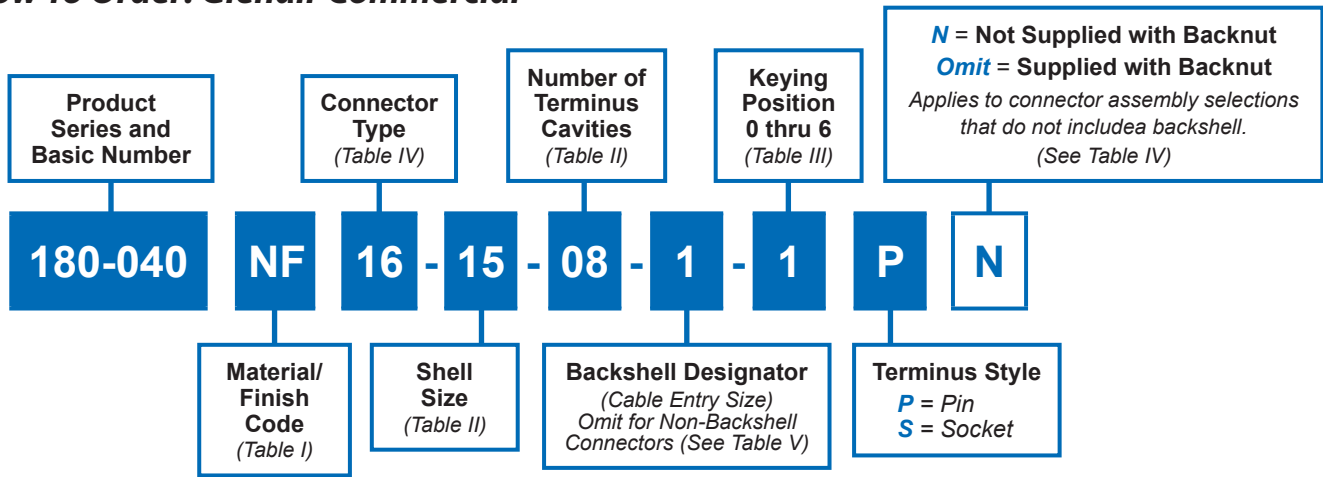


**Fiber Optic Connectors**

**How To Order: Military QPL**



**How To Order: Glenair Commercial**



Dimensions in Inches (millimeters) are subject to change without notice.

**MIL-PRF-28876 QPL Fiber Optic Connectors**  
**M28876/1 through /14**  
**180-040**  
**How to Order**



**Table I: Material and Finishes (Commercial)**

Code	Material	Finish Description
GB4	Aluminum Alloy	Hard Anodize, Black with PTFE
M*		Electroless Nickel
ME		Electroless Nickel
MT		Nickel-PTFE, Grey
NF		Cadmium, Olive Drab
TZ		Tin-Zinc, Green-Gold
ZR		Zinc-Nickel, Black

\*Inactive for new design. Use "ME" finish  
Refer to Appendix for material/finish details

**Table II: Shell Size and Insert Arrangement**

Mil-Spec		Commercial	
Shell Size	Insert Arrangement	Shell Size	Number of Cavities
A	1	11	02
B	1	13	04
C	2	15	06
	1		08
F	2	23	18
	1		31

Consult factory for QPL status

**Table III: Keying Position**

Shell Size	Keying Position	A°	B°	C°	D°
11 and 13	0*	-	-	-	-
	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 and 23	0*	-	-	-	-
	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

\*0 indicates universal keying arrangement and is available on commercial equivalent plug connector only.

**Table IV: Connector Type**

Connector Type	Backshell Type	MIL-Spec	Commercial
Wall Mount Receptacle	None	M28876/1	03
	Straight	M28876/2	13
	45°	M28876/3	23
	90°	M28876/4	33
In-Line Receptacle	Straight	M28876/5	15
Plug	None	M28876/6	06
	Straight	M28876/7	16
	45°	M28876/8	26
Jam Nut Receptacle	90°	M28876/9	36
	None	M28876/11	04
	Straight	M28876/12	14
	45°	M28876/13	24
	90°	M28876/14	34

**Material and Finish**

- A. M28876 part numbers supplied standard with Cad plate/olive drab over aluminum alloy. See Table I for commercial plating options.
- B. Hardware: Aluminum alloy/chem film, stainless steel/passivate
- C. Insert: Aluminum alloy/anodize
- D. Seals: Fluorosilicone

**Specifications**

Backnut retained using thread-locking compound.  
Operating Temperature Range: -55° to +125°C.

**Tools, Accessories and Assembly Notes**

Termini (Not Supplied with Connector):  
M29504/14 - Pin terminus, MIL-Spec  
M29504/15 - Socket Terminus, MIL-Spec  
M29504/3 - Dummy Terminus, MIL-Spec  
181-039 - Pin Terminus, MIL-Spec Style  
181-040 - Socket terminus, MIL-Spec Style  
181-051 - Dummy Terminus MIL-Spec Style  
Consult factory for appropriate termination and assembly tools/procedures.

**Table V: Backshell Designator**

Backshell Designator	Max Allowable Cable Diameter by Shell Size			
	A (11)	B (13)	C (15)	F (23)
1	.250 (6.4)	.285 (7.2)	.500 (12.7)	.866 (22.0)
2	.346 (8.8)	.346 (8.8)	.250 (6.4)	1.000 (25.4)
3		.453 (11.5)	.375 (9.5)	.600 (15.2)

Dimensions in Inches (millimeters) are subject to change without notice.