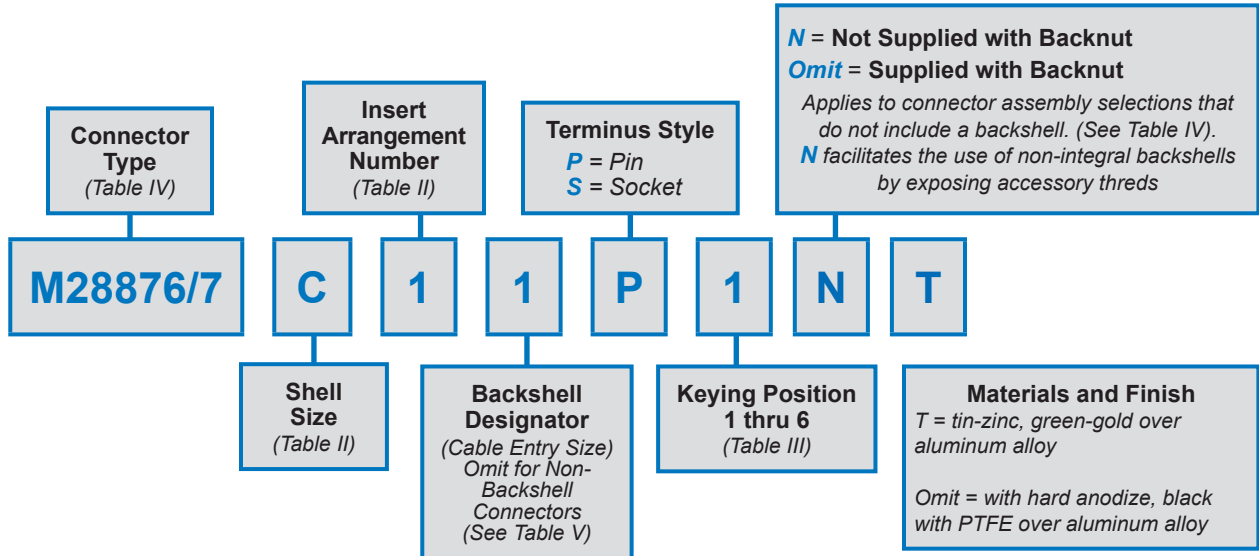




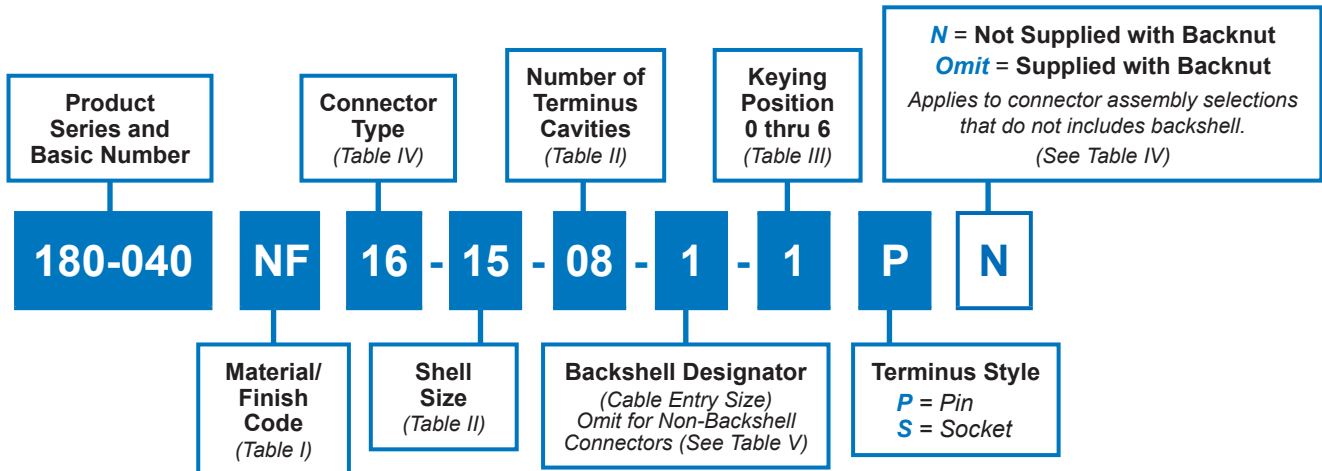
MIL-PRF-28876 QPL Fiber Optic Connectors
180-040
How to Order



Military QPL M28876/1 through /14 fiber optic connectors



Glenair commercial equivalent MIL-PRF-28876 type fiber optic connectors



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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 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)

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
	90°	M28876/9	36
Jam Nut Receptacle	None	M28876/11	04
	Straight	M28876/12	14
	45°	M28876/13	24
	90°	M28876/14	34

Material and Finish

A. M28876 part numbers supplied with two finish designator options driven by part number formulation (see above).

T = Tin-Zinc, Green-Gold over Aluminum Alloy

Omit = Hard Anodize, Black with PTFE 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 and boot: Fluorosilicone

Notes

Termini (Not Supplied with Connector):

M29504/14 - Pin terminus, MIL-Spec

M29504/15 - Socket Terminus, MIL-Spec

M29504/03 - 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

Backnut retained using thread-locking compound

Shell size 13 backshell designator 3 connector supplied less boot

Consult factory for termination and assembly tools/procedures

Operating Temperature Range: -55° to +125°C.

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



Key Positions for MIL-PRF-28876 (180-040) fiber optic connectors

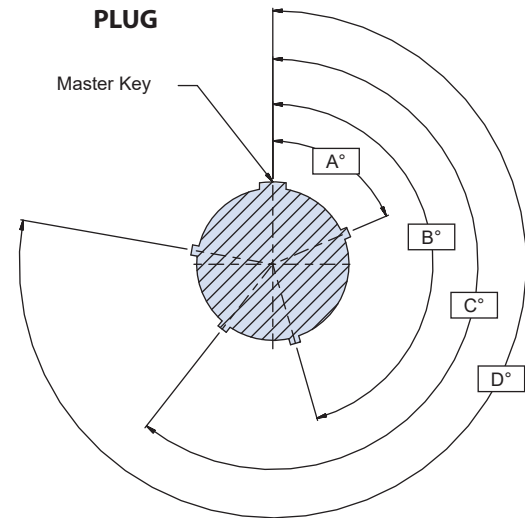
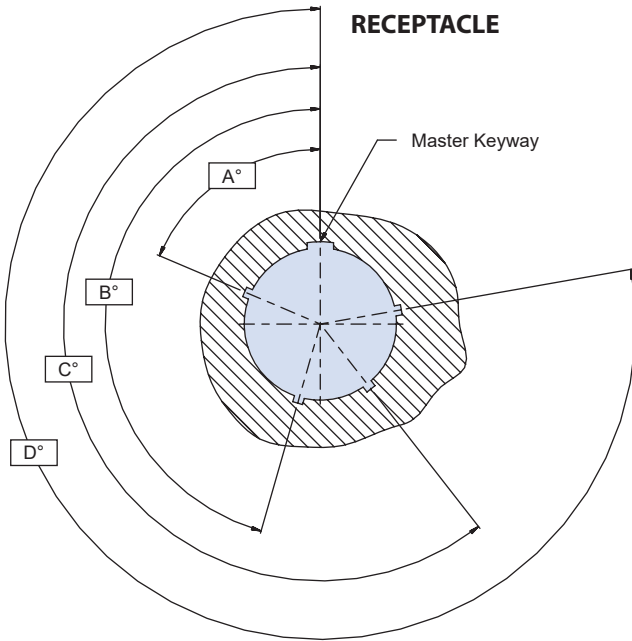


Table III: Keying Position

Shell Size	Key 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.

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Insert arrangements for MIL-PRF-28876 (180-040) fiber optic connectors

