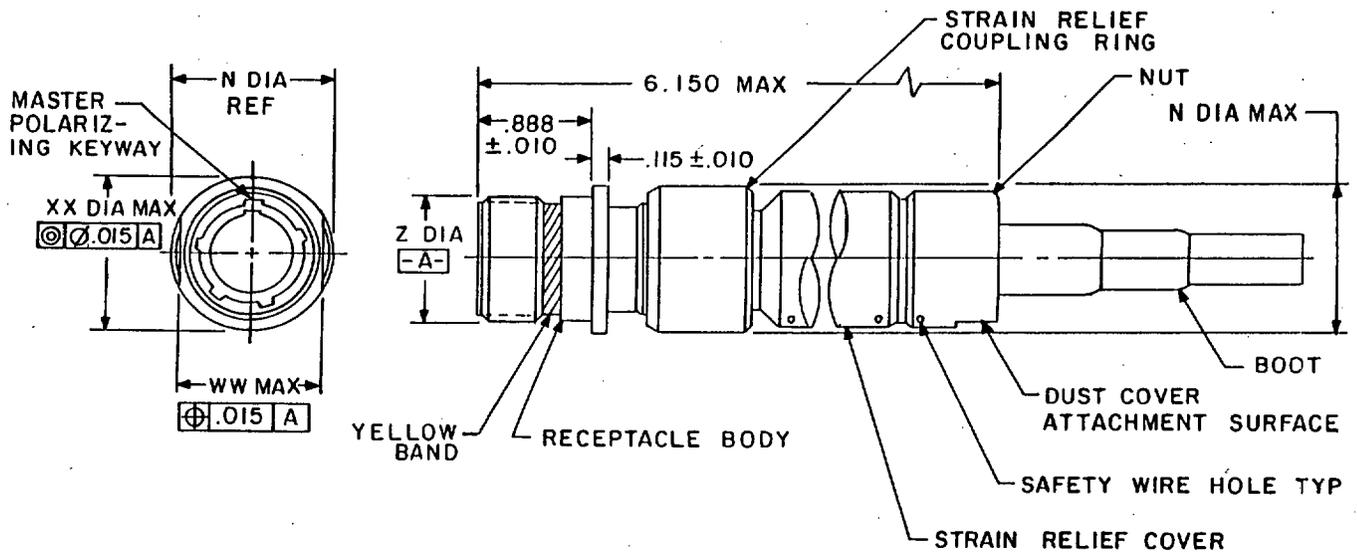


MILITARY SPECIFICATION SHEET

CONNECTORS, FIBER OPTIC, CIRCULAR, PLUG AND RECEPTACLE STYLE,  
 MULTIPLE REMOVABLE TERMINI, RECEPTACLE, SCREW THREADS,  
 WITH STRAIGHT STRAIN RELIEF, ENVIRONMENT RESISTING

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring fiber optic connectors described herein shall consist of this specification and the latest issue of MIL-C-28876.



Inches	mm
.010	0.25
.015	0.38
.115	2.92
.888	22.56
.6.150	152.40

FIGURE 1. Receptacle connector with straight backshell strain relief.

Shell size	N dia max	WW max	XX dia max	Z dia max	For insert arrangement MIL-STD-2163 figure	Color band EIA RS359
11	.960 (24.38)	.768 (19.51)	.963 (24.46)	.750 (19.05)	1	Yellow
13	1.085 (27.55)	.893 (22.68)	1.088 (27.63)	.875 (22.22)	2	Yellow
15	1.255 (31.88)	1.080 (27.43)	1.275 (32.38)	1.062 (26.97)	3	Yellow

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions apply after plating.
4. Metric equivalents (mm) are in parentheses.

FIGURE 1. Receptacle connector with straight backshell strain relief - Continued

## REQUIREMENTS:

Dimensions and configurations: See figure 1 and MIL-C-28876, figures 4 and 8.

Mass: 12.0 ounces maximum.

Insert arrangement: See MIL-STD-2163 for desired shell size.

Termini: Style P (pin) or S (socket). See MIL-C-28876/16 and MIL-C-28876/17. (For dummy terminus see MIL-C-28876/18.)

Shell polarization: 1 through 6 keyway positions. See MIL-C-28876, figure 5.

## Marking:

Part number: Marked on flange of receptacle (see table I).

<u>M28876/5</u>	B	1	2	P	1		
Basic part number _____	Shell size designator letter _____	Insert arrangement number _____			Terminus style letter _____	Keying position number _____	Backshell dash number _____

TABLE I. Part number designators.

Shell size	Designator	Insert arrangement number	Termini	Key position	Cable outer diameter, backshell dash number		
					1	2	3
11	A	1	P or S	1, 2, 3, 4, 5, or 6	.250 (6.35)		
					.240 (6.09)		
13	B	1	P or S	1, 2, 3, 4, 5, or 6	.300 (7.62)		
					.290 (7.36)		
15	C	1 or 2	P or S	1, 2, 3, 4, 5, or 6	.515 (13.08)	.260 (6.66)	.385 (9.78)
					.495 (12.57)	.235 (6.02)	.365 (9.27)

Color bands: See EIA RS359.

Mating counterpart: Plug connectors specified in MIL-C-28876/6 through MIL-C-28876/9.

Installation and removal tools: As specified in MIL-I-81969/46 through MIL-I-81969/49 and MIL-T-83523/5 through MIL-T-83523/8.

Quality conformance and periodic inspections: The following cables shall be used for quality conformance and periodic inspections:

<u>Shell size</u>	<u>Cables</u>
A	Siecor part number 277-R, 2-channel, 50 micron core, 125 clad, or equal.
B	Siecor part number 477-R, 4-channel, 100 micron core, 140 clad, or equal.
C	Belden part number 229626, 8-channel, 100 micron core, 140 clad, or equal.

For quality conformance and periodic inspections, dummy termini shall be used in all unused cavities.

Patent notice: The Government does not have a royalty-free license under the following patents for the benefit of manufacturers of the item, either for the Government or for use in equipment to be delivered to the Government:

<u>Patent application no.</u>	<u>Patent no.</u>
US (65,032)	US 4,330,955
US (260,660)	
US (376,866)	
US (403,446)	

Revision letters are not used to denote changes due to the extensiveness of the changes.

Custodians:  
 Army - CR  
 Navy - EC  
 Air Force - 85

Preparing activity:  
 Navy - EC

Review activities:  
 Army - MI  
 Navy - AS, MC, SH  
 Air Force - 11, 17, 19, 80, 90, 99  
 DLA - ES

Agent:  
 DLA - ES

(Project 6060-0045-05)

User activities:  
 Navy - OS, YD  
 Air Force - 13, 14