



Shell size	W	X	Y TIR	Z dia max	DD dia (ref)	For insert arrangement MIL-STD-2163 figure	For color band EIA RS359
15		1.278 (32.46) 1.238 (31.45)	.968 (24.59)	1.062 (26.97)	1.124 (28.55)	3	Yellow

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Metric equivalents are in parentheses.
4. Dimensions apply after plating.
5. For mating key dimensions and configurations, see MIL-C-28876, figure 5.
6. For detail dimensions for connector front and rear end configurations, see MIL-C-28876, figures 4 and 8.

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

**REQUIREMENTS:**

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

**(B) Weight:**

Shell size	Weight (ounces)
11	---
13	---
15	11.5

**(B) Fiber optic cable:**

Cable diameter: In accordance with DOD-C-85045/2 and DOD-C-85045/6.

Cable configuration: In accordance with DOD-C-85045/2 and DOD-C-85045/6.

Fiber diameter: In accordance with DOD-F-49291/3 and DOD-F-49291/4.

Fiber numerical aperture:

DOD-F-49291/3: 0.23 ±0.02 at 850 nanometers.

DOD-F-49291/4: 0.29 ±0.02 at 850 nanometers.

Fiber type: Multimode.

Fiber class: Graded index.

Insert arrangement: See MIL-STD-2163.

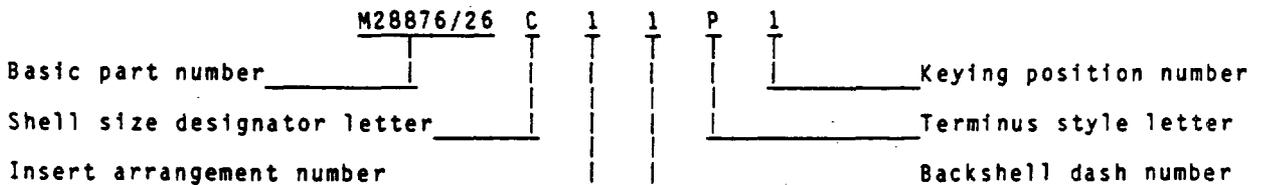
**(B) Termini:** Style P (pin) or S (socket). See MIL-T-29504/1 and MIL-T-29504/2. (For dummy terminus see MIL-T-29504/3.)

**(B) Cleaning procedures:** Dampen lens tissue (paper wipe or cotton swab) with a small amount of isopropyl alcohol (minimum 90 percent strength). Gently wipe the face of the connector, removing any debris, particularly around the optical fiber, using clean lint-free lens tissue (paper wipe, cotton swab). Carefully dry the contact with a clean, dry, lint-free tissue.

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

**Marking:**

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



**TABLE I. Part number designators.**

Shell size	Designator	Insert arrangement number	Termini	Key position	Cable outer diameter, backshell dash number
					1
15	C	1	P or S	1, 2, 3, 4, 5, or 6	.515 (13.08) .495 (12.57)

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-83523/7.

- Ⓑ Qualification: The following cable shall be used for qualified products listing, qualification inspection, periodic inspection, and quality conformance inspection:

<u>Shell size</u>	<u>Cable</u>
C	D85045/2-C4A Belden part number 229650, 3-channel, 100 micron core, 140 clad, or equal

- Ⓑ For qualified products listing, quality conformance, and periodic inspections, dummy termini shall be used in all unused cavities.

Patent notice: The Government does not have 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 no.</u>	<u>Patent expiration date</u>
US 65,032	11/17/2004
US 260,660	1/8/2002
US 376,866	2/12/2002
US 403,446	1/15/2002
US 751,204	2/7/2002
US 4,330,965	5/25/1999

**CONCLUDING MATERIAL**

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

Preparing activity:  
 Navy - EC

Agent:  
 DLA - ES

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

(Project 6060-0066-14)

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