



**DEFENSE LOGISTICS AGENCY**  
**WEAPONS SUPPORT**  
**P.O. BOX 3990**  
**COLUMBUS, OHIO 43218-3990**

September 29, 2026

**MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION**

**SUBJECT:** Initial Drafts of: MIL-DTL-28840 /1F, /2F, /3F, /5D, and /6E  
Project Numbers: 5935-2026-058 through 5935-2026-062

These initial drafts for these subject documents, are now available for viewing and downloading from the DLA Weapons Support (Columbus)-VA Web site:

<https://weaponssupportapps.dla.mil/programs/milspec/default.aspx>

Major changes to these documents include removing the withdrawn reference ASTM-B211 and to be replaced with ASTM-B211/B211M.

Concurrence or comments are required at this Center within 30 days from the date of this letter. Late comments will be held for the next coordination of the document. Comments from military departments must be identified as either "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians of this office, as applicable, in sufficient time to allow for consolidating the department reply. Lack of response to this draft will be construed as concurrence.

If these documents are of interest to you, please provide your comments or suggested changes. The point of contact for this document is Mr. Harrell, phone number 614-693-3456, e-mail [Arbion.Harrell@dlamail](mailto:Arbion.Harrell@dlamail).

Sincerely,

-/ Signed/-  
MUHAMMAD AKBAR  
Chief,  
Interconnection Branch

NOTE: This draft, dated (day month year), prepared by DLA – CC has not been approved and is subject to modification.  
DO NOT USE PRIOR TO APPROVAL. (Project 5935-2026-062)

INCH-POUND

MIL-DTL-28840/6E  
w/AMENDMENT 3  
DRAFT  
SUPERSEDING  
MIL-DTL-28840/6E  
w/AMENDMENT 2  
03 March 2021

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, THREADED,  
HIGH SHOCK, HIGH DENSITY, SHIPBOARD, BACKSHELL, STRAIGHT,  
CABLE SEALING AND SHIELD TERMINATION

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

The requirements for acquiring the product described herein  
shall consist of this specification sheet and MIL-DTL-28840.

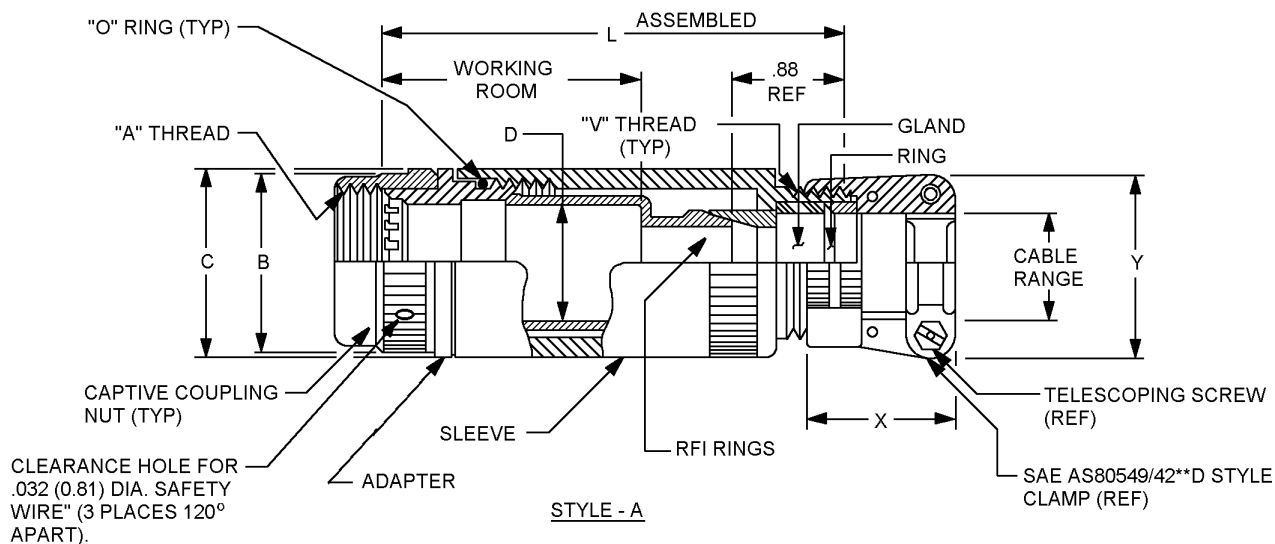


FIGURE 1. Dimensions and configurations.

AMSC N/A  
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

FSC 5935



MIL-DTL-28840/6E  
w/AMENDMENT 3  
DRAFT DATED 29 SEPTEMBER 2026

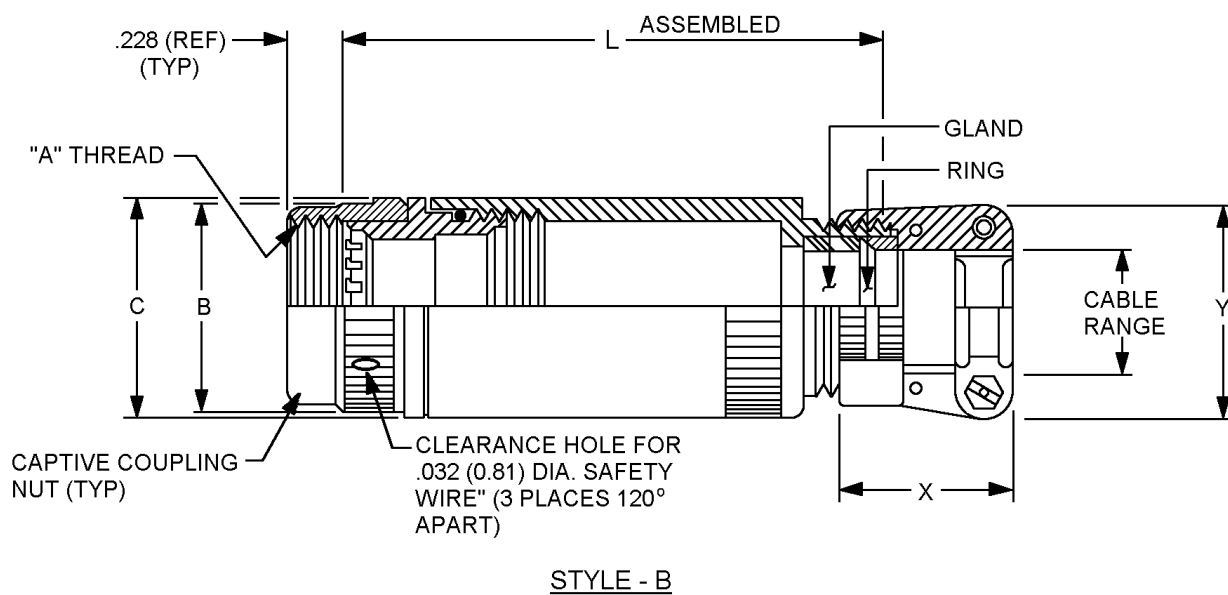


FIGURE 1. Dimensions and configurations - Continued.

MIL-DTL-28840/6E  
w/AMENDMENT 3  
DRAFT DATED 29 SEPTEMBER 2026

| Dash no. | Shell size designator (see note 1) | A thread class 2B | B dia max     | C dia max     | D dia min     | Cable range   |               |               |              |
|----------|------------------------------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
|          |                                    |                   |               |               |               | max           | min           |               |              |
| 01       | A (11)                             | .750-20 UNEF      | 1.028 (26.11) | 1.156 (29.36) | .750 (19.05)  | .312 (7.92)   | .188 (4.77)   |               |              |
| 02       | B (13)                             | .875-20 UNEF      | 1.141 (28.98) | 1.156 (29.36) | .750 (19.05)  | .312 (7.92)   | .188 (4.77)   |               |              |
| 03       |                                    |                   |               |               |               | .438 (11.12)  | .281 (7.14)   |               |              |
| 04       | C (15)                             | 1.00-20 UNEF      | 1.263 (32.08) | 1.281 (32.54) | .875 (22.23)  | .312 (7.92)   | .188 (4.77)   |               |              |
| 05       |                                    |                   |               |               |               | .438 (11.12)  | .281 (7.14)   |               |              |
| 06       |                                    |                   |               | 1.406 (35.71) | 1.000 (25.40) | .562 (14.27)  | .344 (8.74)   |               |              |
| 07       |                                    |                   |               |               |               | .750 (19.05)  | .438 (11.12)  |               |              |
| 08       | D (17)                             | 1.125-18 UNEF     | 1.387 (35.23) | 1.406 (35.71) | 1.000 (25.40) | .625 (15.87)  | .375 (9.53)   |               |              |
| 09       |                                    |                   |               |               |               | .750 (19.05)  | .438 (11.12)  |               |              |
| 10       | E (19)                             | 1.250-18 UNEF     | 1.513 (38.43) | 1.531 (38.89) | 1.125 (28.58) | .938 (23.82)  | .625 (15.88)  |               |              |
| 11       |                                    |                   |               |               |               | .625 (15.87)  | .375 (9.53)   |               |              |
| 12       |                                    |                   |               |               |               | .938 (23.82)  | .625 (15.87)  |               |              |
| 13       | F (23)                             | 1.438-18 UNEF     | 1.703 (43.26) | 1.656 (42.06) | 1.250 (31.75) | .750 (19.05)  | .438 (11.12)  |               |              |
| 14       |                                    |                   |               |               |               | .938 (23.82)  | .625 (15.87)  |               |              |
| 15       |                                    |                   |               | 1.781 (45.24) | 1.375 (34.93) | 1.188 (30.17) | .812 (20.62)  |               |              |
| 16       | G (25)                             | 1.562-18 UNEF     | 1.825 (46.35) |               |               | .938 (23.82)  | .625 (15.88)  |               |              |
| 17       |                                    |                   |               |               |               | 1.188 (30.17) | .812 (20.62)  |               |              |
| 18       |                                    |                   |               |               |               | 1.250 (31.75) | .875 (22.23)  |               |              |
| 19       |                                    |                   | 2.156 (54.76) | 1.750 (44.45) | 1.380 (35.05) | 1.000 (25.4)  |               |               |              |
| 20       | H (29)                             | 1.875-16 UNS      |               |               | 2.143 (54.43) |               |               | 1.188 (30.17) | .812 (20.62) |
| 21       |                                    |                   |               |               |               |               |               | 1.380 (35.05) | 1.000 (25.4) |
| 22       | J (33)                             | 2.062-16 UNS      | 2.329 (59.16) | 2.281 (57.94) | 1.875 (47.63) | 1.380 (35.05) | 1.000 (25.4)  |               |              |
| 23       |                                    |                   |               |               |               | 1.625 (41.28) | 1.250 (31.75) |               |              |
| 24       | A (11)                             | .750-20 UNEF      | 1.028 (26.11) | 1.156 (29.36) | .750 (19.05)  | .438 (11.12)  | .281 (7.14)   |               |              |
| 25       |                                    |                   |               | 1.281 (32.54) | .875 (22.22)  | .562 (14.27)  | .344 (8.74)   |               |              |
| 26       | B (13)                             | .875-20 UNEF      | 1.141 (28.98) |               |               | .562 (14.27)  | .344 (8.74)   |               |              |
| 27       |                                    |                   | 1.406 (35.71) | 1.000 (25.4)  |               |               |               | .625 (15.87)  | .375 (9.52)  |
| 28       | C (15)                             | 1.000-20 UNEF     |               |               | 1.263 (32.08) |               |               |               |              |

FIGURE 1. Dimensions and configurations - Continued.

MIL-DTL-28840/6E  
w/AMENDMENT 3  
DRAFT DATED 29 SEPTEMBER 2026

| Dash no. | Shell size designator<br>(see note 1) | L<br>± .12<br>(± 3.05) | Working room ref. | V<br>thread class 2 | X<br>dia max  | Y<br>ref.     |  |  |
|----------|---------------------------------------|------------------------|-------------------|---------------------|---------------|---------------|--|--|
| 01       | A (11)                                | 3.62 (91.95)           | 2.00 (50.80)      | .625-24 UNEF        | 1.281 (32.53) | .938 (23.82)  |  |  |
| 02       | B (13)                                |                        |                   | .625-24 UNEF        |               | .938 (23.82)  |  |  |
| 03       |                                       |                        |                   | .750-20 UNEF        |               | 1.125 (28.57) |  |  |
| 04       | C (15)                                |                        |                   | .625-24 UNEF        |               | .938 (23.82)  |  |  |
| 05       |                                       |                        |                   | .750-20 UNEF        |               | 1.125 (28.57) |  |  |
| 06       |                                       |                        |                   | .875-20 UNEF        |               | 1.312 (33.32) |  |  |
| 07       | D (17)                                | 4.12 (104.65)          | 2.50 (63.50)      | 1.188-18 UNEF       | 1.312 (33.32) | 1.593 (40.46) |  |  |
| 08       |                                       |                        |                   | 1.000-20 UNEF       | 1.281 (32.54) | 1.312 (33.32) |  |  |
| 09       |                                       |                        |                   | 1.188-18 UNEF       | 1.312 (33.32) | 1.593 (40.46) |  |  |
| 10       |                                       |                        |                   | 1.438-18 UNEF       | 1.406 (35.71) | 1.750 (44.45) |  |  |
| 11       | E (19)                                |                        |                   | 1.000-20 UNEF       | 1.281 (32.54) | 1.312 (33.32) |  |  |
| 12       |                                       |                        |                   | 1.438-18 UNEF       | 1.406 (35.71) | 1.750 (44.45) |  |  |
| 13       | F (23)                                | 4.62 (117.35)          | 3.00 (76.20)      | 1.188-18 UNEF       | 1.312 (33.32) | 1.593 (40.46) |  |  |
| 14       |                                       |                        |                   | 1.438-18 UNEF       | 1.406 (35.71) | 1.750 (44.45) |  |  |
| 15       |                                       |                        |                   | 1.750-18 UNS        | 1.593 (40.46) | 2.093 (53.16) |  |  |
| 16       | G (25)                                | 5.12 (130.05)          | 3.50 (88.90)      | 1.438-18 UNEF       | 1.406 (35.71) | 1.750 (44.45) |  |  |
| 17       |                                       |                        |                   | 1.750-18 UNS        | 1.593 (40.46) | 2.093 (53.16) |  |  |
| 18       |                                       |                        |                   | 1.750-18 UNS        |               | 2.093 (53.16) |  |  |
| 19       |                                       |                        |                   | 2.000-18 UNS        | 1.625 (41.28) | 2.343 (59.51) |  |  |
| 20       | H (29)                                |                        |                   | 1.750-18 UNS        | 1.593 (40.46) | 2.093 (53.16) |  |  |
| 21       |                                       |                        |                   | 2.000-18 UNS        | 1.625 (41.28) | 2.343 (59.51) |  |  |
| 22       | J (33)                                |                        |                   | 2.000-18 UNS        |               | 2.343 (59.51) |  |  |
| 23       |                                       |                        |                   | 2.250-16 UNS        | 1.900 (48.26) | 2.750 (69.85) |  |  |
| 24       | A (11)                                | 3.62 (91.95)           | 2.00 (50.80)      | .750-20 UNEF        | 1.281 (32.54) | 1.125 (28.57) |  |  |
| 25       |                                       |                        |                   | .875-20 UNEF        |               | 1.312 (33.32) |  |  |
| 26       | B (13)                                | 4.12 (104.65)          | 2.50 (63.50)      | 1.000-20 UNEF       |               |               |  |  |
| 27       |                                       |                        |                   |                     |               |               |  |  |
| 28       | C (15)                                |                        |                   | 1.000-20 UNEF       |               |               |  |  |

NOTES:

1. Shell sizes are provided within parentheses for information and are not a part of the designator.
2. Dimensions are in inches.
3. Metric equivalents are given for information only.
4. Dimensions apply after plating.

FIGURE 1. Dimensions and configurations - Continued.

MIL-DTL-28840/6E  
w/AMENDMENT 3  
DRAFT DATED 29 SEPTEMBER 2026

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Interface dimensions shall be in accordance with MIL-DTL-28840.

Material and finish: See table I.

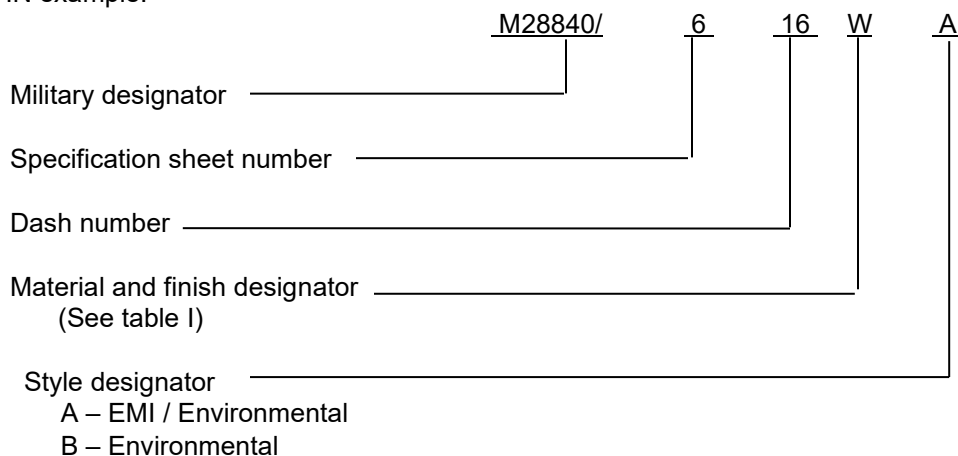
TABLE I. Material and finish.

| Material and finish designator | Material                                                                                                                                       | Finish                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| W                              | Aluminum alloy in accordance with ASTM B85/B85M, ASTM B26/B26M, ASTM B108/B108M, ASTM B209, <del>ASTM B211</del> ASTM B211/B211M, or ASTM B221 | Cadmium plate, olive drab over electroless nickel |
| D                              | Corrosion resistant steel in accordance with ASTM A276, ASTM A473, or ASTM A580/A580M, type 316                                                | Cadmium plate, black <u>1/</u>                    |
| F                              | Aluminum alloy in accordance with ASTM B85/B85M, ASTM B26/B26M, ASTM B108/B108M, ASTM B209, <del>ASTM B211</del> ASTM B211/B211M, or ASTM B221 | Pure electro-deposited aluminum, non-reflective   |
| L                              |                                                                                                                                                | Tin-zinc, non-reflective                          |
| S                              |                                                                                                                                                | Zinc nickel, non-reflective                       |

1/ Lock washers and telescoping screws shall be stainless steel and passivated in accordance with SAE-AMS2700.

Marking: The back shell shall be identified with the manufacturer's name or trade mark and the Part or Identifying Number (PIN).

PIN example:



QUALIFICATION: Two samples in each shell size for which qualification is desired, shall be tested in accordance with MIL-DTL-28840.

MIL-DTL-28840/6E  
w/AMENDMENT 3  
DRAFT DATED 29 SEPTEMBER 2026

RESTRICTIONS:

Material and finish designators W and D are inactive for NAVSEA new design, unless approved by NAVSEA.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-DTL-28840, this document references the following:

ASTM A276  
ASTM A473  
ASTM A580/A580M  
ASTM B26/B26M  
ASTM B85/B85M  
ASTM B108/B108M  
ASTM B209  
~~ASTM B211~~ ASTM B211/B211M  
ASTM B221  
SAE-AMS2700

CONCLUDING MATERIAL

Custodians:

Army - AT  
Navy - EC  
Air Force - 85  
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-2026-062)

Review activities:

Army - AV, MI  
Navy - OS, SH

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.