



## M28840 SHIPBOARD CONNECTORS

Amphenol Pcd now offering a complete line of M28840 Circular Connectors according to MIL-DTL-28840.

# M28840 SHIPBOARD CONNECTORS

## Overview

Amphenol is a leading manufacturer of connectors now offers complete line of M28840 circular connectors according to MIL-DTL-28840. These shipboard application connectors are precision-machined, highly reliable, and meet superior mechanical shock performances. These high-density connectors are designed and tested to withstand extreme en-vironmental conditions and demanding applications. Amphenol also offer the full range of backshells to support this connector series.

## Features

- Precision-machined to MIL-DTL-28840 specification
- Available in Nine shell sizes: 11, 13, 15, 17, 19, 23, 25, 29 & 33
- Pin count - 7, 12, 21, 31, 42, 64, 92, 121 and 155
- Plating options – Cadmium, Zinc Nickel
- Support connectors as well as kit with accessories
- Six keying options (1, 2, 3, 4, 5, 6) for both plugs and receptacles.
- Contact size is AWG 20 with wire accommodation options from AWG 20 to AWG 28
- Crimp termination, rear insert and front release contacts
- Complete line of straight, 90° and 45° backshells

## Benefits

- Fully intermateable and interchangeable with any qualified M28840 connector
- Backshell designs for strain relief, EMI and environmental sealing.
- Options to buy connector kitted with backshell and accessories.
- Same application tool for all three types of contacts

## Applications

- US Navy shipboard, surface craft and submarines
- Mission critical combat and communications systems
- Mobile tactical shelters electronic battlefield networks
- Mobile emergency telecommunications (MET) stations
- Deployable outdoors in harsh environments



## Contacts & Tools

Size	Wire AWG	Pin Contact	Socket Contact	Crimp Tool	Positioner	Insertion Tool	Extraction Tool
20	28-32 AWG	M39029/83-451	M39029/84-453	M22520/34-01	M22520/34-02	M81969/33-01	M81696/34-01
20	22-26 AWG	M39029/83-450	M39029/84-452	M22520/34-01	M22520/34-02	M81969/33-01	M81969/34-01
20	20-24 AWG	M39029/83-508	M39029/84-509	M22520/34-01	M22520/34-02	M81969/33-01	M81969/34-01

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## M28840 Availability

Military Spec Reference	Description	Type
M28840/10	Receptacle Wall Mount	Connector
M28840/11	Receptacle Cable Mount	
M28840/12	Receptacle Box Mount	
M28840/14	Receptacle Single hole - Jam Nut Mount	
M28840/16	Plug Connector	
M28840/17	Plug Connector with Straight Strain Relief	Connector with Backshell
M28840/18	Plug Connector with 90° Strain Relief	
M28840/19	Plug Connector with 45° Strain Relief	
M28840/20	Receptacle Wall Mount with Straight EMI/RFI Back shell	
M28840/21	Receptacle Cable Mount with Straight EMI/RFI Back shell	
M28840/26	Plug Connector with Straight EMI/RFI Back shell	
M28840/28	Plug Connector with 90deg EMI/RFI Env Back shell	
M28840/29	Plug Connector with 45deg EMI/RFI Env Back shell	
M28840/13	Protective Receptacle Cover	Accessories
M28840/15	Protective Plug Cover	
M28840/1	Straight Strain Relief	
M28840/2	90Deg Strain Relief	
M28840/3	45Deg Strain Relief	
M28840/5	Back shell for Metal Core Conduit	
M28840/6	EMI/RFI Environmental Back shell	
M28840/7	Dummy Stowage Receptacle	
M28840/8	90° EMI/RFI Environmental Back shell	
M28840/9	45° EMI/RFI Environmental Back shell	
M28840/22	Metal Conduit Bushing	
M28840/23	E Nut	
M28840/24A	Mounting Gasket	
M28840/25	90° EMI Conduit Adapter	
M28840/27	45° EMI Conduit Adapter	
M28840/30	Metal Conduit Coupler	
M28840/4	Metal Core Conduit	

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## Shell Size & Contacts



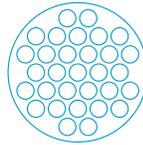
Shell Size 11  
7 Contacts



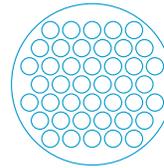
Shell Size 13  
12 Contacts



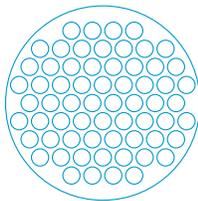
Shell Size 15  
21 Contacts



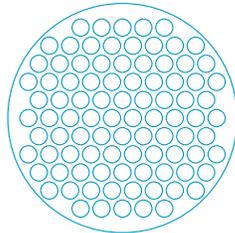
Shell Size 17  
31 Contacts



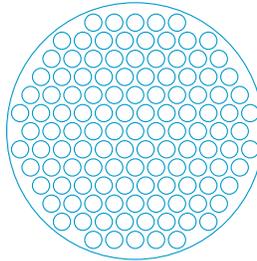
Shell Size 19  
42 Contacts



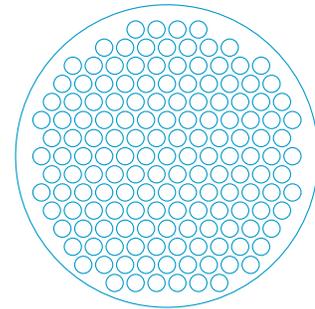
Shell Size 23  
64 Contacts



Shell Size 25  
92 Contacts



Shell Size 29  
121 Contacts



Shell Size 33  
155 Contacts

## M28876 FIBER OPTIC CONNECTORS

### Overview

Amphenol Fiber Systems International (AFSI) is a leading producer and supplier of M28876 connectors to the US Navy and allied navies around the world. Our stringently toleranced and precision machined connectors, manufactured at our state-of-the-art, ISO 9001:2000 certified factory in Allen, Texas, U.S.A., are designed to provide superior optical performance in the harshest of environments.

### Features & Benefits

Qualified to MIL-PRF-28876 specifications

- Low insertion loss (-0.35dB typ MM, -0.35dB typ SM) • Compatible with single mode or multi-mode termini
- Full environmental sealing
- Available in 3 shell sizes
  - Shell 13 – 4 channels
  - Shell 15 – 6 channels or 8 channels
  - Shell 23 – 18 channels or 31 channels
- Available in 6 keying options (1 through 6)
- Backshells, featuring AFSI's exclusive Quickloc cable captivation system, available in straight, 45° and 90° versions
- Hybrid (COTS only) versions available
- Fully field maintainable in accordance with MIL-STD-2042

For more info on M28876 contact Amphenol FSI [sales@fibersystems.com](mailto:sales@fibersystems.com).