

# AR801 ARINC 801 Termini and Connectors

## For Precision Fiber Optic Interconnect Solutions

Features:

- Removable alignment sleeve insert for easy cleaning of fiber optic termini
- Three stages of alignment: shell-to-shell keys, guide pins and ceramic alignment sleeves
- Includes all of the features of standard D38999 straight plug and wall mount receptacle shells
  - Scoop-proof designs
  - Option for alternate keys and keyways
  - Rear accessory threads
  - Standard insertion/extraction tools (M81969/14-03)
- Genderless terminus allows for use on both sides of a connector
  - Precision ceramic ferrules and sleeves ensure accurate fiber to fiber alignment
  - Keyed to provide anti-rotation
  - Available with both PC and APC end-face finishes
  - Terminus body is crimped to the cable providing a "Pull-Proof" advantage



ARINC 801 CONNECTORS



### OPTICAL / MECHANICAL / ENVIRONMENTAL

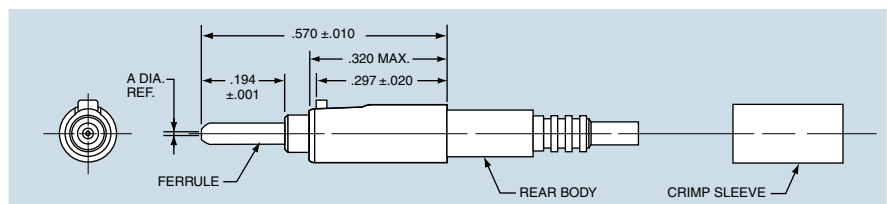
Parameter	Performance
Insertion Loss (850 nm)	0.30 dB max., 0.15 dB typical (multi-mode)
Return Loss (850 nm)	-20 dB max., -40 dB typical (multi-mode)
Thermal Cycling	EIA 364-032D, Test condition VII (-55C to +100C; 5 cycles)
Altitude Immersion	TIA/EIA-455-15
Temperature Life	TIA/EIA-455-4 (100C for 1000 hours)
Vibration	TIA/EIA-455-11 (condition VI-G, eight hrs. per axis)
Mechanical Shock	TIA/EIA-455-14, Condition D
Humidity	TIA/EIA-455-5
Salt Spray	EIA-364-026B, Condition C (500 hours)
Fluid Immersion	Standard Aerospace Fluids

### TERMINI COMPONENTS / MATERIALS

Component	Material
Outer body	Stainless Steel
Spring	Stainless Steel, passivated
Ferrule	Zirconia Ceramic

### ORDERING INFORMATION ARINC 801 TERMINI

Amphenol ARINC 801 Termini Part Number	A Dia. Ref.	Ferrule Hole Tolerance
CF-198148-126	126	+1, -0
CF-198148-128	128	+2, -0



See the Fiber Optic section of Amphenol's combined circular product catalog, 12-C ( ) - online at [www.amphenol-aerospace.com](http://www.amphenol-aerospace.com)

Call 800-678-0141 or visit us at [www.amphenol-aerospace.com](http://www.amphenol-aerospace.com)

## Easy Steps to build a part number... for AR801 Connectors

1.	2.	3.	4.	5.	6.	7.
Connector Type	Connector Series	Shell Finish	Shell Style	Shell Size- Insert Arrangement	Alternate Position	(Optional Step) Interfacial Seal
CF-	5A	4	6	11-02	N	2

## Step 1. Select a Connector Type

<b>CF-</b>	Designates Multi-Channel Fiber Optic Connector
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## Step 2. Select a Series

	Designates
<b>5A</b>	Aluminum
<b>6A</b>	Composite
<b>8A</b>	Steel

## Step 3. Select a Shell Finish

	Designates
<b>2</b>	Black Anodized (Aluminum only)
<b>4</b>	Electroless nickel
<b>6</b>	Unplated Passivated (Steel only)
<b>9</b>	Olive drab cadmium
<b>D</b>	Durmalon™ (Nickel-PTFE) (Aluminum only)

\* Other finishes available contact fiber@amphenol-aa.com  
Durmalon is a trademark of Amphenol Aerospace. For more information on Durmalon, go to [www.amphenol-aerospace.com/durmalon.asp](http://www.amphenol-aerospace.com/durmalon.asp)

## Step 4. Select a Shell Style

	Designates
<b>0</b>	Wall mount receptacle ARINC 801
<b>6</b>	Straight plug ARINC 801
<b>7</b>	Jam Nut Receptacle ARINC 801

## Step 5. Select a Shell Size- Insert Arrangement

See arrangements for ARINC 801 connectors below.

## Step 6. Insert Type &amp; Key/Keyway Position

Insert Type and Keyway Position  
Shell styles automatically determines termini gender.

**Plug Connector=Socket termini**  
**Receptacle Connector=Pin Termini**

For keyway positioning, choose the alternate rotation suffix from the chart below.

Alternate Position
N=Normal
A
B
C
D
E

## Step 7. (Optional Step) Interfacial Seal

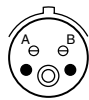
	Designates
<b>2</b>	Interfacial Seal

An interfacial seal is NOT part of the ARINC 801 standard.  
The interfacial seal is offered by Amphenol High Speed Solutions and is NOT recognized by ARINC 801.

- Receptacles only
- If not desired, leave blank

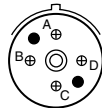
## Insert Arrangements ... AR801 Connectors

Front face of pin inserts illustrated

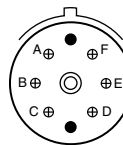


Insert Arrangement

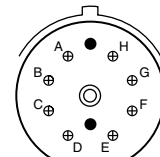
11-02



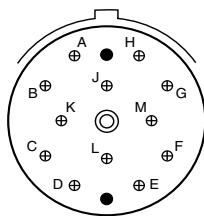
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15-06

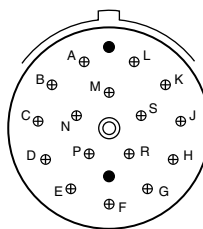


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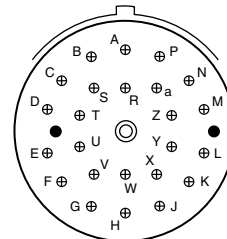


Insert Arrangement

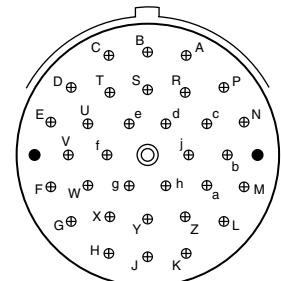
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21-16



23-24



25-32

⊕ Contact Location    ⊙ Jack Screw (Plug only)    ● Guide Pin/Hole Location

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