

# 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



### 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                                  |

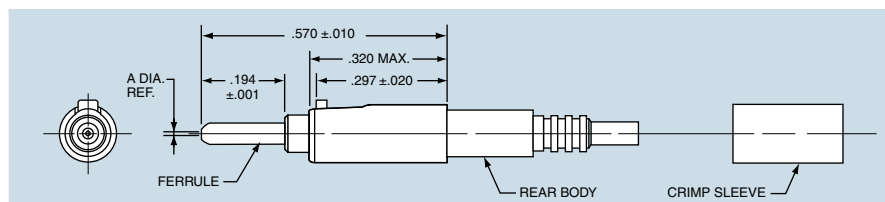
### TERMINI COMPONENTS / MATERIALS

| 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                 |

### ARINC 801 TERMINI



## 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

|     |                                                |
|-----|------------------------------------------------|
| CF- | Designates Multi-Channel Fiber Optic Connector |
|-----|------------------------------------------------|

## Step 2. Select a Series

|    |            |
|----|------------|
|    | Designates |
| 5A | Aluminum   |
| 6A | Composite  |
| 8A | Steel      |

## Step 3. Select a Shell Finish

|   |                                         |
|---|-----------------------------------------|
|   | Designates                              |
| 2 | Black Anodized (Aluminum only)          |
| 4 | Electroless nickel                      |
| 6 | Unplated Passivated (Steel only)        |
| 9 | Olive drab cadmium                      |
| D | 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                      |
| 0 | Wall mount receptacle ARINC 801 |
| 6 | Straight plug ARINC 801         |
| 7 | 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 termin 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       |
| 2 | 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.

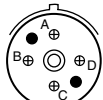
- Receptacles only
- If not desired, leave blank

## Insert Arrangements ... AR801 Connectors

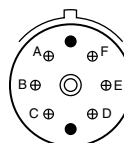
Front face of pin inserts illustrated



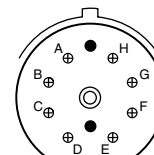
Insert Arrangement 11-02



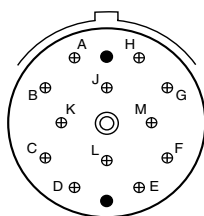
13-04



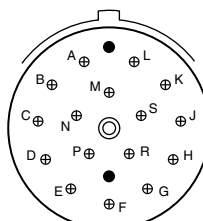
15-06



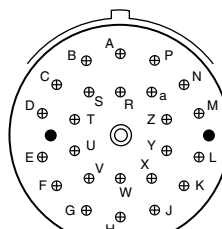
17-08



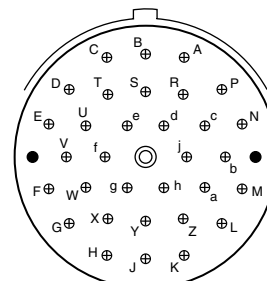
Insert Arrangement 19-12



21-16



23-24



25-32

fiber@amphenol-aa.com

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

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**Amphenol**  
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