PDS-224-2

# 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



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





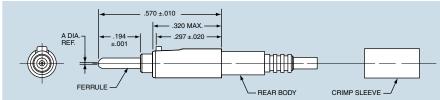
#### TERMINI COMPONENTS / MATERIALS

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

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

2. 5. 6. 7. 1.

Connector	Connector	Shell	Shell	Shell Size- Insert	Alternate	(Optional Step)
Type	Series	Finish	Style	Arrangement	Position	Interfacial Seal
CF-	5 <b>A</b>	4	6	11- 02	N	

### 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)

<sup>\*</sup> Other finishes available contact fiber@amphenol-aao.com Durmalon is a trademark of Amphenol Aerospace. For more information on Durmalon, go to 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 & 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.

#### 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

Alternate Position
N=Normal
Α
В
С
D
Е

## Front face of pin inserts illustrated Insert Arrangements ... AR801 Connectors **Insert Arrangement** 11-02 13-04 15-06 17-08 **Insert Arrangement** 19-12 21-16 23-24 25-32 O Jack Screw (Plug only) ⊕ Contact Location Guide Pin/Hole Location

## fiber@amphenol-aao.com

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