AR801
ARINC 801 Termini and Connectors

For Precision Fiber Optic Interconnect Solutions


ARINC 801 CONNECTORS

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

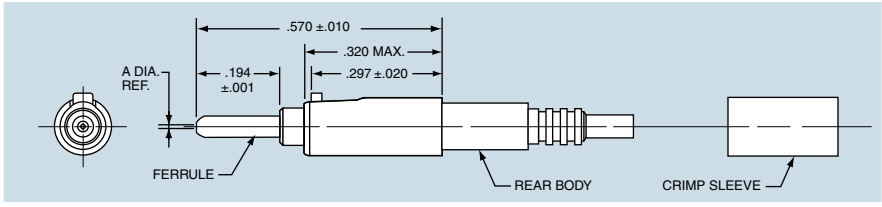
Parameter	Performance
Insertion Loss (850 nm)	0.30 dB max., 0.15 dB typical (multi-mode)
Return Loss (850 nm)	–20 dB max., – 40 dB typical (multi-mode)
Thermal Cycling	EIA 364-032D, Test condition VII (–55C to +100C; 5 cycles)
Altitude Immersion	TIA/EIA-455-15
Temperature Life	TIA/EIA-455-4 (100C for 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



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

1. Connector Type	2. Connector Series	3. Shell Finish	4. Shell Style	5. Shell Size– Insert Arrangement	6. Alternate Position	7. (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-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.

Alternate Position
N=Normal
A
B
C
D
E

Step 7. (Optional Step) Interfacial Seal

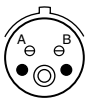
	Designates
2	Interfacial Seal

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.

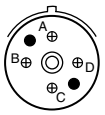
- Receptacles only
- If not desired, leave blank

Insert Arrangements ... AR801 Connectors

Front face of pin inserts illustrated



Insert Arrangement 11-02



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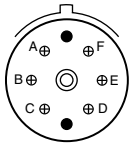

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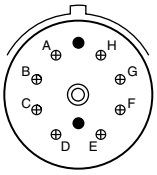

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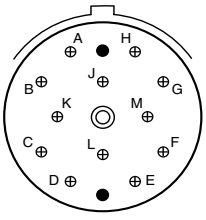
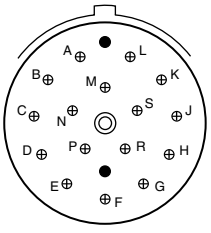


Insert Arrangement 19-12



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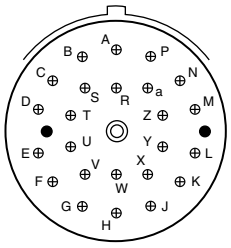

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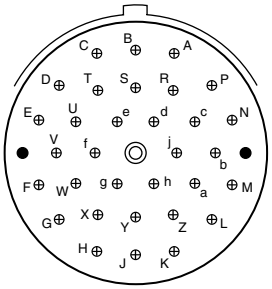

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⊕ Contact Location ◎ Jack Screw (Plug only) ● Guide Pin/Hole Location

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