ARINC 801
CONNECTORS AND TERMINI



Amphenol offers a multi-channel circular connector that complies with the ARINC specification. This connector, available in straight plug and wall mount receptacle, uses the ARINC 801 ceramic termini.

FEATURES & BENEFITS:

- 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

OPTIONS:

- Bulkhead Feed-Throughs
  - Panel mounted, double-ended jam nut receptacle with pin-pin contacts
- Hermetic
  - Customer specified optical sub-assemblies (fiber type, length, lead terminations) are installed into the connector and the back of the connector is sealed
  - Sealing rates in excess of 1X10-5 He/sec 40°C to +85°C

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

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ARINC 801 CONNECTORS

Amphenol Aerospace

Complete steps 1-8 to create your part number

1. Connector Type	2. Connector Series	3. Shell Finish	4. Shell Style	5. Shell Style - Insert Arrangement	6. Insert Material	7. Alternate Position	8. Interfacial Seal (Optional)
CF-	5A	4	6	11-02	P	N	2

1. Connector Type

CF-	Designates Multi-Channel Fiber Optic Connector

2. Service Class

5A	Aluminum
6A	Composite
8A	Steel

3. Shell Finish

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

2. Service Class

0	Wall mount receptacle ARINC 801
6	Straight plug ARINC 801
7	Jam Nut Receptacle ARINC 801

5. Select a Shell Size - Insert arrangement

See insert arrangements for ARINC 801 connectors below

6. Insert Material

AL	Aluminum
P	Plastic

7. 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 to the right.

8. Interfacial Seal

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

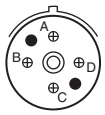
INSERT ARRANGEMENTS

Front face of pin inserts illustrated

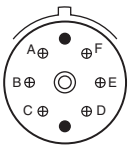
Insert Arrangement



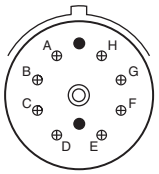
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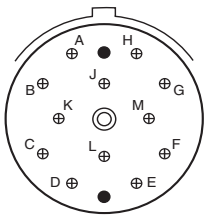
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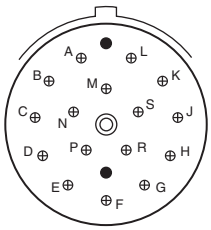
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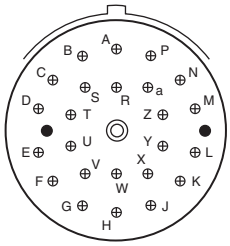
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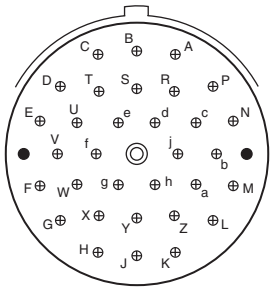
19-12



21-16



23-24



25-32

Insert Arrangement

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

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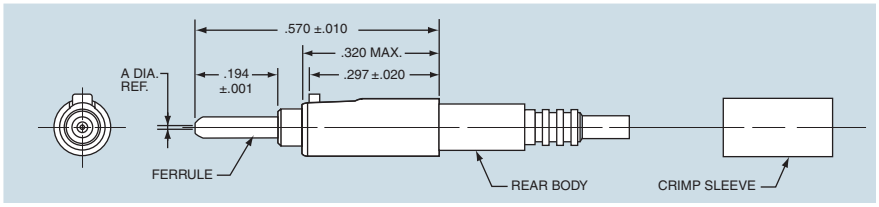
ARINC 801 TERMINI

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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





Ordering Information - ARINC 801 Termini

ARINC 801 Equivalent	Radiall Equivalent	TE Connectivity Equivalent	Sabritec Equivalent	Amphenol Termini Part Number	Ferrule Type	Cable Type
LS	F725000419	1918614-1		CF-198148-126	PC for SM	1.6 - 2.2 mm loose structure
LM	F725003419	1828199-1		CF-198148-128	PC for 50/125 or 62.5/125 MM	1.6 - 2.2 mm loose structure
LSA	F725050419	1918616-1		TBD	SM APC	1.6 - 2.2 mm loose structure
TM	F725003519	1828200-1		TBD	PC for 50/125 or 62.5/125 MM	1.6 - 2.2 mm loose structure
TS	F725000519	-		TBD	PC for 200/230 MM	1.6 - 2.2 mm loose structure
TSA	F725050519	-		TBD	SM APC	1.6 - 2.2 mm loose structure
-	F725003118	-		TBD	PC for 50/125 or 62.5/125 MM	900 µm cable
-	F725003318	-		TBD	PC for 50/125 or 62.5/125 MM	1.2 mm tight structure

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