ARINC 801 Termini

Designed for use in ARINC 801 Fiber Optic Connectors

Ordering Information for ARINC 801 Termini for ARINC 801 Connectors

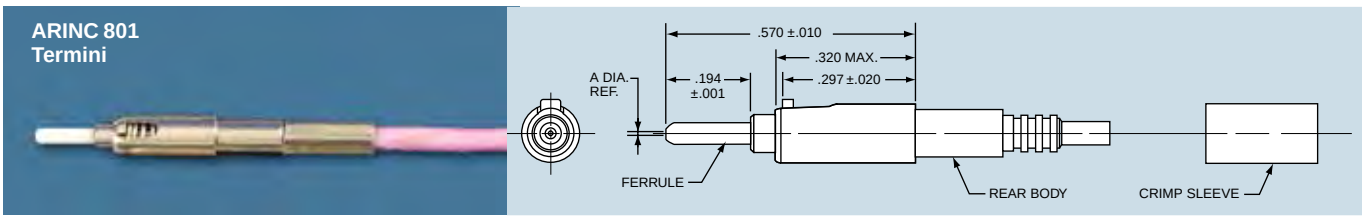
Amphenol ARINC 801 Termini Part Number	A Dia. Ref	Ferrule Hole Tolerance
CF-198148-126	126	+1, -0
CF-198148-128	128	+2, -0

Amphenol® ARINC 801 Termini Features:

- Designed for use in Amphenol ARINC 801 fiber optic connectors - manufactured to comply with ARINC 801.
- Genderless terminus allows for use on both sides of a connector
- Alignment sleeves are contained in a separate carrier which is removable for easier end-face cleaning
- 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

Amphenol ARINC fiber optic connectors are supplied less contacts. Order ARINC 801 termini by Amphenol part number designation as shown in the chart at right. Consult Amphenol, Sidney, NY for further availability.

See page 204 for information on ARINC 801 termini in circular 38999 connectors.



All dimensions for reference only.

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

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ARINC 801 Inserts within Tri-Start Connectors

Amphenol® ARINC 801 Connector:

Amphenol now 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 described on page 203.

The features of the ARINC 801 connector include:

- Uses precision ARINC 801 fiber optic termini (typical multi-mode insertion loss is less than 0.15 dB).
- 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 (refer to page 197 for shell dimensions).
  - Scoop-proof design
  - Option for alternate keys and keyways
  - Rear accessory threads
  - Standard insertion/extraction tools (M81969/14-03)

Easy Steps to build a part number... ARINC 801 Connectors

1. Connector Type	2. Connector Series	3. Shell Finish	4. Shell Style	5. Shell Size – Insert arrangement	6. Insert Type & Key/Keyway Position
CF	5A	4	6	11-02	N

Step 1. Select a Connector Type

CF–	Multi-Channel Fiber Optic Connector

Step 2. Select a Shell Series

	Designates
5A	Aluminum
6A	Composite

Step 3. Select a Shell Finish

	Designates
4	Electroless Nickel
9	Olive drab cadmium
D	Durmalon™* (Nickel-PTFE) (Aluminum only)

Step 4. Select a Shell Style

	Designates
0	Wall mount receptacle ARINC 801
6	Straight plug ARINC 801

Step 5. Select a Shell Size – Insert Arrangement

See available insert arrangements for ARINC 801 connectors below.

Step 6. Insert Type & Key/Keyway Position

Insert Type and Keyway Position
P designates pin insert (shell style 0 only)
S designates socket insert (shell style 6 only)
For keyway positioning, choose the alternate rotation suffix from the chart at right.

Alternate Position
Normal
A
B
C
D
E

For more information on key/keyway rotation, see the Series III MIL-DTL-38999 section.

* Durmalon is a trademark of Amphenol Aerospace. For more information on Durmalon go to page 5. Other finishes available; please contact Amphenol Aerospace for more information.

Insert Arrangements

Front face of pin inserts illustrated