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The Packard-Hughes Interconnect Fiber Optic Advanced Flight Interconnect (AFI)™

The AFI™ Fiber Optic connector from Packard-Hughes Interconnect incorporates many advanced features required to interface Flight Critical Systems. PHI's coupling mechanism offers a rugged positive locking (anti-vibration) feature, in addition provides for increased mating cycles. This feature is transparent to the user and complies with MIL-C-38999 Series III. The AFI™ houses high performance fiber optic termini per MIL-T-29504/14&15 (ceramic).

Feature Guidelines

Installation footprint and all other dimensional characteristics comply with MIL-C-38999 Series III. Backshell coupling thread complies with MIL-C-38999 Series III.

Available in shell sizes 11, 15, 17, 19, 21, 23 and 25.

Termini conform to MIL-T-29504/14&15.

Interchangeable with MIL-C-38999 Series III but not intermateable.

Dedicated Fiber Optic connector.

Termini/cabling density equals or better than MIL-C-38999.

No special tools required.

Repeatable alignment of mating fiber.

Improved coupling mechanism to withstand high vibration applications.

Plugs/receptacles support either pin or socket termini arrangement.

Socket insert available with "Detachable Face" providing for quick termini optical face cleaning.

Applications

- Commercial Aviation.
- Avionics.
- Military Tactical Deployment.
- Datalink for Shipboard and Communicatoins.







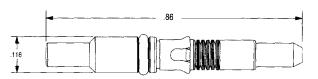
Connector Specifications

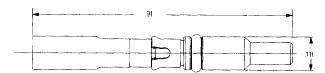
Durability	1000 cycles per MIL-STD-1344
	Todo dyclos por twite orb 1044
/ibration	Per MIL-C-38999 Series III
Thermal Cycling	Per MIL-C-38999 Series III
Fluid Immersion	Per MIL-C-38999 Series III
Humidity	Per MIL-C-38999 Series III
Mechanical Shock	Per MIL-C-38999 Series III
Optical Insertion Loss	.5dB EIA-455-2
	*Augrana Jaco 62 5 migran care

Ceramic Termini







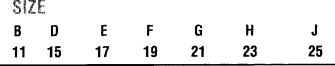


^{*} Single mide applications require the use of Ceramic Termini.

	Materials and Finishes					
	CeramicTermini					
Description	Materials	Finishes				
Terminus Body	Stainless Steel	Passivate				
Alignment Sleeve	Ceramic	None				
Fiber Guide Bushing	Ceramic	None				
Retaining Clip	Beryllium Copper	None				
Belleville Springs	Beryllium Copper	None				
Alignment Sleeve Cover	Beryllium Copper	Nickel				
O-Ring Seal	Flourosilicone Rubber	None				

38999 (AFI) Plug, Wall Mount, Jam-Nut Receptacles Part Numbers

TYPE 1 - Plug 2 - Receptacle Wall-Mount 3 - Receptacle Jam-Nut



Class

- C Aluminum Hard Anodized
- F Aluminum Electroless Nickel Plated
- T Stainless Steel Passivated

Contact

- P Pin
- S Socket
- R Socket, Removeble Face (not available in size B)

Polarization Positions

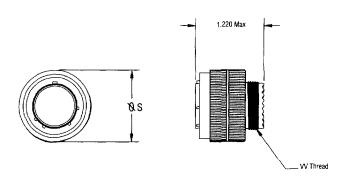
1, 2, 3, 3,

5,

6 (Universal Key)

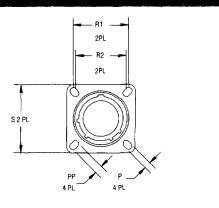
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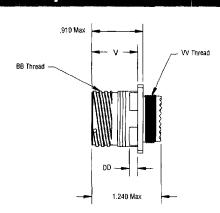
Straight Plug



Shell Size	S Max	VV Thread Metric
11	.969	M15X1-6g
15	1.266	M22X1-6g
17	1.391	M25X1-6g
19	1.500	M28X1-6g
21	1.750	M31X1-6g
23	1.875	M34X1-6g
25	1.625	M37X1-6g

Wall Mount Receptacle





Shell Size	BB Thread Class 2A 0.1P-0.3L-TS (Plated)	V + .000 005	R ₁	R ₂	S Max	P + .000 005	DD Max Panel Thickness	PP + .008 006	VV Thread Metric
11	.7500	.820	.812	.719	1.043	.128	.234	.194	M15X1-6g
15	1.0000	.820	.969	.906	1.232	.128	.234	.173	M22X1-6g
17	1.1875	.820	1.062	.969	1.323	.128	.234	.194	M25X1-6g
19	1.2500	.820	1.156	1.062	1.449	.128	.234	194	M28X1-6g
21	1.3750	.790	1.250	1.156	1.575	.128	.204	.194	M31X1-6g
23	1.5000	.790	1.500	1.375	1.823	.154	.204	.242	M34X1-6g
25	1.6250	.790	1.500	1.375	1.823	.154	.204	.242	M37X1-6g

Insert Arrangement



2 No. 16 termini shelt size 11



5 No. 16 termini shell size 15



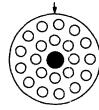
8 No. 16 termini shell size 17



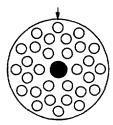
12 No. 16 termini shell size 19



16 No. 16 termini shell size 21



21 No. 16 termini



30 No. 16 termini shell size 25

The Company

Packard-Hughes Interconnect (PHI) blends advanced technology from Hughes Aircraft with the worldclass manufacturing of Delphi Packard Electric Systems. This successful combination provides customers state-of-the-art products at prices in line with the demands of commercial markets. PHI fiber optic products were originally developed to address the rigid specifications and robust designs associated with advanced military applications. They are now available through Packard-Hughes to meet the

demands for cost-efficient commercial applications while providing significant performance gains in aviation, military, computer, telecommunication and industrial applications.

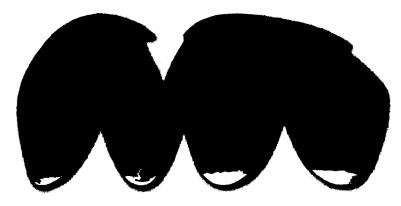
Packard-Hughes Interconnect is a subsidiary of General Motors Corporation and is managed through Delphi Packard Electric Systems of General Motors. PHI has over 1,600 employees in five manufacturing facilities in North America with customer support centers located in the U.S.A. and Europe.

Irvine, California, Corporate Headquarters for Packard-Hughes Interconnect, is the center for technology development and engineering of interconnection products. A complete range of high performance fiber optic connectors are designed, manufactured and assembled at our Irvine facility.

FACILITIES and LOCATIONS WORLDWIDE

Customer support centers

Seattle, Washington Santa Clara, California Warren, Ohio Kokomo, Indiana Phoenix, Arizona Cockeysville, Maryland Conklin, New York Toulouse, France Alton, Hants, U.K.



Manufacturing Locations
Irvine, California
Tijuana, Mexico
Fort Defiance, Arizona
Foley, Alabama



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