

FIBER OPTIC CONNECTORS & COMPONENTS

TERMINI Contacts

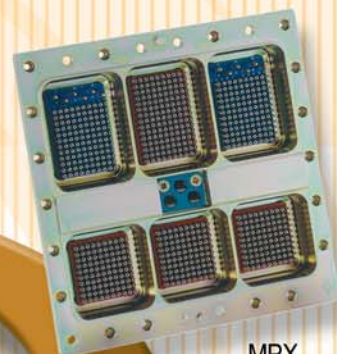
F722 / F724 series



EPX



Arinc 404 / DSX



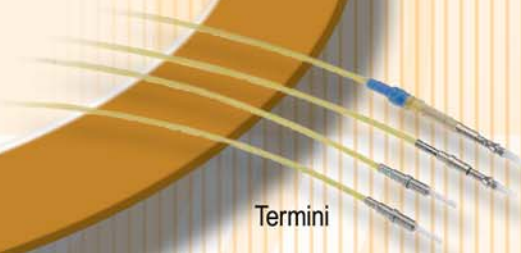
MPX



Arinc 600 / NSX



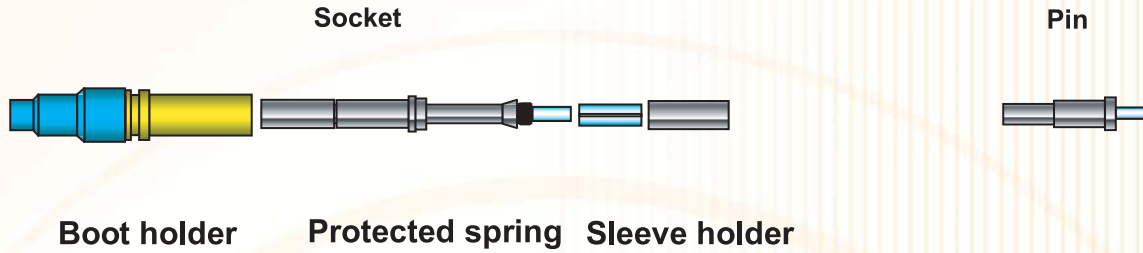
MIL-DTL-38999



Termini

Fiber optic interconnect solution
MIL-PRF-29504 standard compliant

MIL-PRF-29504 Style Optical Terminus can be inserted into standard size 16 or size 12 cavities of a wide range of heavy duty and rectangular multipin connectors.



Features :

- In accordance with MIL-PRF-29504
- Interchangeable with electrical contacts
- Removable (extraction tool)
- Low insertion loss
- Wide temperature range
- Quick and easy termination process (bonding and polishing)
- Specific boot holder at the rear of the contact

Unique feature :

In order to avoid constraint on the fiber induced by the rear sealing grommet, Radiall has developed a unique releasing boot holder.

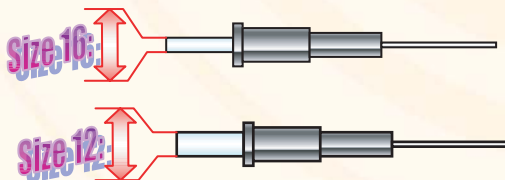
During mating sequence, the spring loaded socket is pushed back by the pin, providing a good physical contact between optical faces. The boot holder allows the push of the fiber through the grommet while maintaining an efficient sealing.

Used in :

Circular connectors	Rectangular connectors
MIL-DTL-38999, series 1 - 3 - 4	ARINC 404 - DSX
MIL-C-83723, series 1 - 3	ARINC 600 - NSX
MIL-C-83733	HE510 - EPX
MIL-C-26482, serie 2	MIL-C-83527 - MPX

2 contacts size are available depending on the shell size cavities :

- Size 16, outside diameter 1,585mm
- Size 12, outside diameter 2,38 mm

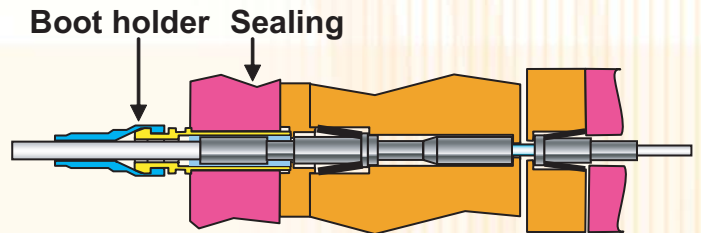


Flat metal optical ferrule

Available for multimode fibre: 220µm, 230µm, 280µm, 1010µm

Flat ceramic optical ferrule

Available for multimode fibre: 125µm, 140µm, 280µm



Applications :

- Military/Aerospace
- Harsh environment
- Broadcast industry
- Hybrid electronics

Performances:

- Typical insertion loss: 0.8dB
- Durability: 500 matings
- Cable retention: 27,8N (bonding)
- Vibrations: 10-2000Hz, 15g
- Shocks: 50g, 11ms
- Temperature range: -55°C/+125°C
- Temperature life: 1000 hours at +125°C

Termini terminus part number by connector series

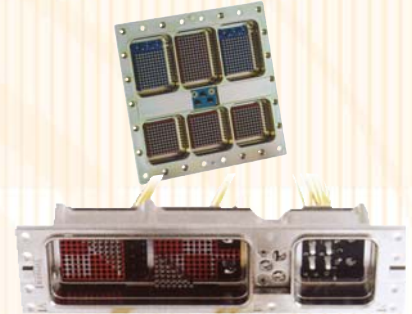
ARINC 404 - DSX Connector

# contact	Fiber diameter in μm	Cable diameter in mm	Ferrule material	M29504/6	M29504/7
				Part number pin	Part number socket
16	125	1,5	Ceramic	F724 005 000	F724 104 000
		1,8	Ceramic	F724 011 000	F724 111 000
16	140	1,5	Ceramic	F724 002 000	F724 101 000
16	125	1,8	Ceramic	F724 011 000	F724 111 000
16	230	2	Metal	F724 041 000	F725 140 000



ARINC 600 NSX Connector & MIL-C-83527 MPX Connector

# contact	Fiber diameter in μm	Cable diameter in mm	Ferrule material	M29504/6	M29504/7
				Part number pin	Part number socket
16	125	1,5	Ceramic	F724 004 000	F724 104 000
16	140	1,5	Ceramic	F724 001 000	F724 101 000
16	230	2	Metal	F724 040 000	F724 140 000
12	125	1,5	Ceramic	F724 204 000	F724 304 000
12	140	1,5	Ceramic	F724 203 000	F724 303 000



HE510 - EPX Connector

# contact	Fiber diameter in μm	Cable diameter in mm	Ferrule material	Part number pin	Part number socket
16	125	1,5	Ceramic	F724 006 000	F724 106 000
16	140	1,5	Ceramic	F724 003 000	F724 103 000
16	230	2	Metal	F724 042 000	F724 142 000
12	125	1,5	Ceramic	F724 202 000	F724 302 000
12	140	1,5	Ceramic	F724 201 000	F724 301 000



MIL-DTL- 38999, series 13 - 4 Connectors

# contact	Fiber diameter in μm	Cable diameter in mm	Ferrule material	M29504/4	M29504/5
				Part number pin	Part number socket
16	125	1,5	Ceramic	F722 003 000	F722 103 000
		1,8	Ceramic	F722 013 000	F722 113 000
		2	Ceramic	F722 008 000	F722 108 000
16	140	1,5	Ceramic	F722 002 000	F722 102 000
		2	Ceramic	F722 009 000	F722 109 000
16	230	2	Metal	F722 042 000	F722 142 000
12	125	1,5	Ceramic	F722 200 000	F722 300 000
12	140	1,5	Ceramic	F722 202 000	F722 302 000
12	230	2,5	Metal	F722 240 000	F722 340 000



MIL-C-83723 series 1 - 3 / MIL-C-83733 / MIL-C-26482 series 2 Connectors

# contact	Fiber diameter in μm	Cable diameter in mm	ferrule material	Part number pin	Part number socket
16	140	1,5	Ceramic	F722 004 000	F722 104 000
16	125	1,5	Ceramic	F722 005 000	F722 105 000

Please consult Radiall for other fiber and cable diameter.

Tooling

Pin and socket contacts can be terminated using the Radiall termination kit. Delivered with assembly instructions manual.

**TERMINATION KIT : F780 458 000 (220v)
F780 459 000 (110v)**



Contents (Each item can be ordered separately)

DESIGNATION	PART NUMBER
Curing oven 220V	F780 486 000
Curing oven 110V	F780 487 000
No Nik buffer stripper (for 250µm)	F780 026 000
Miller primary stripper (for 900µm)	F780 025 000
Polishing base	F780 124 000
Bag of 10 abrasive strips 12µm	F780 508 000
Bag of 10 polishing 9µ disk	F780 127 000
Bag of 10 polishing 1µ disk	F780 138 000
Bag of 3 polishing diamond disk	F780 139 000
Bag of 6 epoxy resin 0E184	F780 242 000
Bag of 5 syringues	F780 243 000
Ceramic scissors	F780 039 000
Scoring blade	F780 136 000
Resin applicator	F780 132 000
Microscope X100	F780 457 000
Bag of 50 cleaning tips	F780 424 000
Cleaning paper	F780 527 000
Solvent dispenser	F780 809 000
Waste container	F780 811 000
Ruler	
Adhesive paper	
Tweezers	

ADDITIONAL TOOLS

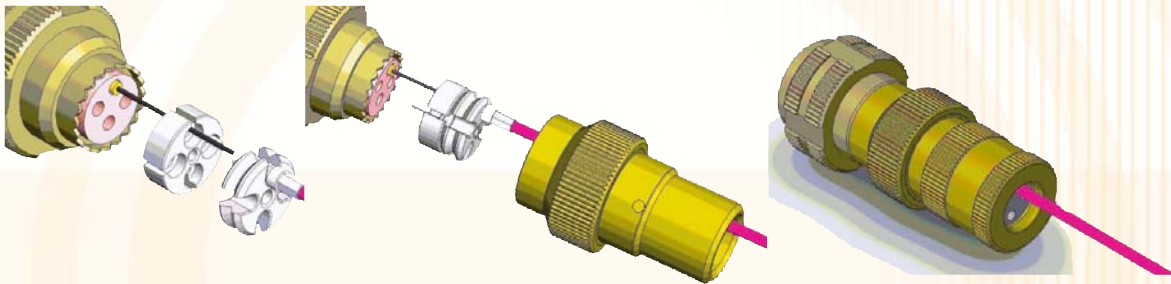
DESIGNATION	P/N
Cabling Kit for multiway cable	F780 408 000
Cleaning Kit	F780 423 000
Insertion tool for clip terminus #12	F780 410 000
Polishing tool for terminus #12	F780 411 000
Polishing tool for terminus #16	F780 416 000
Microscope adapter X100 for terminus #12	F780 418 000
Microscope adapter X100 for terminus #16	F780 419 000
Curing block	F780 491 000
Insertion tool for sealing boot	F780 426 000
Insertion/extraction tool for terminus #12, and MIL-C-38999 connectors	282 549 004
Insertion/extraction tool for terminus #12, and all rectangular connectors	282 547
Insertion/extraction tool for terminus #16, and MIL-C-38999 connectors	282 515
Insertion/extraction tool for terminus #16, and all rectangular connectors	282 546

Accessories

Part Number	Description	For connector
F722 750 000	Simplex adaptor	MIL-C-38999, #16 pin
F722 900 000	Device housing receptacle, bulkhead	MIL-C-83522
F722 901 000	Device housing receptacle, PCB	MIL-C-83522

Backshells for MIL-DTL-38999 connectors

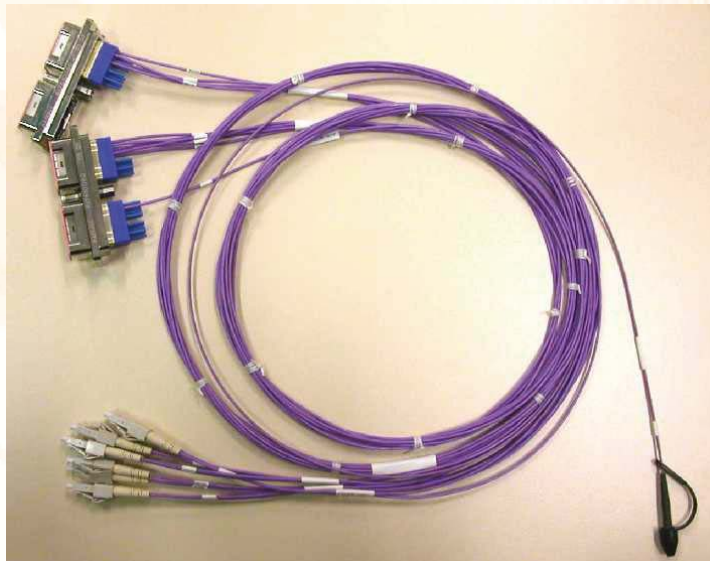
Part Number	Connector size	Cable type
F723 500 000	# 13	For 4 cables - 2,4mm outer diameter
F723 510 000	# 19	For 12 cables - 2,4mm outer diameter
F723 520 000	# 21	For 16 cables - 2,4mm outer diameter
F723 530 000	# 11	For 2 cables - 2,4mm outer diameter
F723 613 000	# 13	For cable-gland - maxi outer diameter : 8mm
F723 615 000	# 15	For cable-gland - maxi outer diameter : 8mm

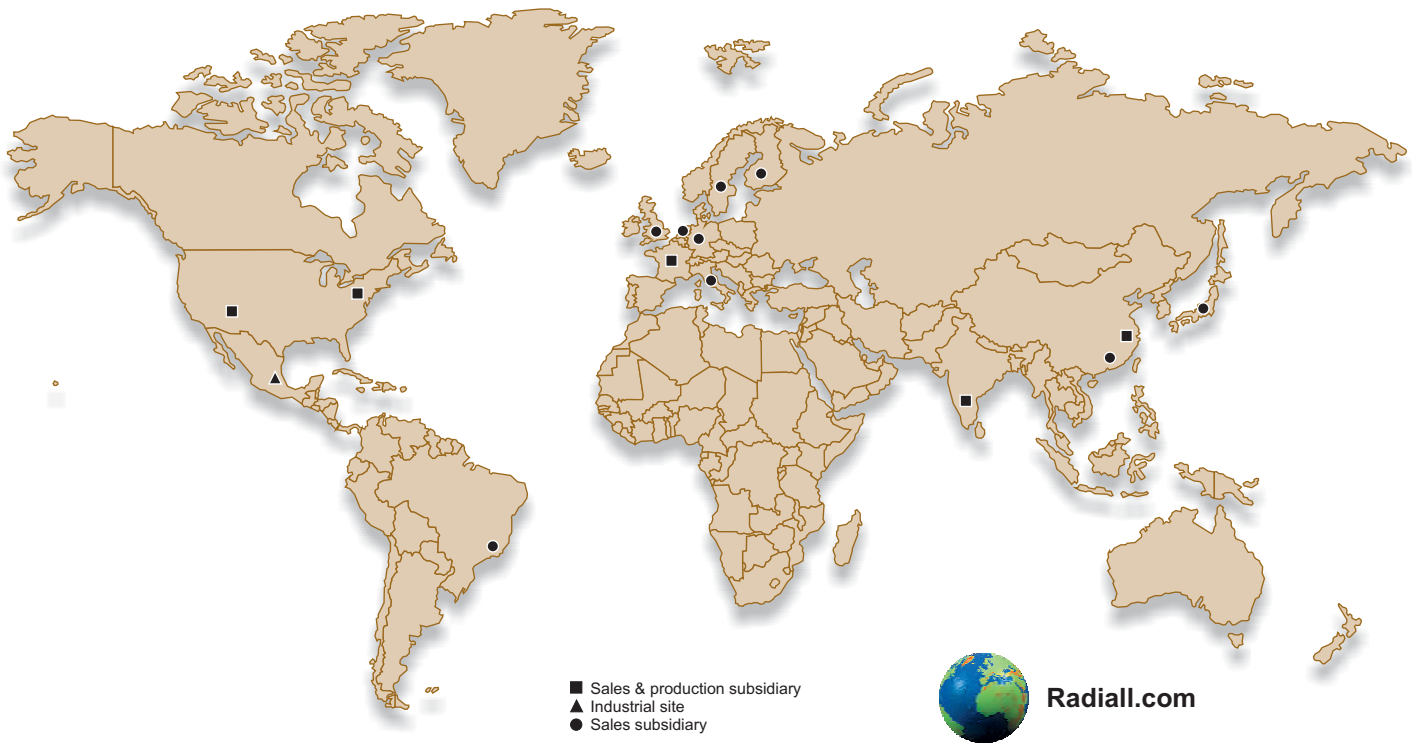


MIL-C-38999, size 13 and Backshell with carousel retainer, 2.4mm outer diameter cable, 4 ways

Harnesses and cable assemblies

Radiall manufactures a complete range of standard and custom cable assemblies and harnesses. All harnesses are fully tested. Please contact Radiall with your specific requirement.





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