

FSMA Connectors, Standard Version

**Specifications subject to change.
For latest design specifications...
1-800-522-6752**

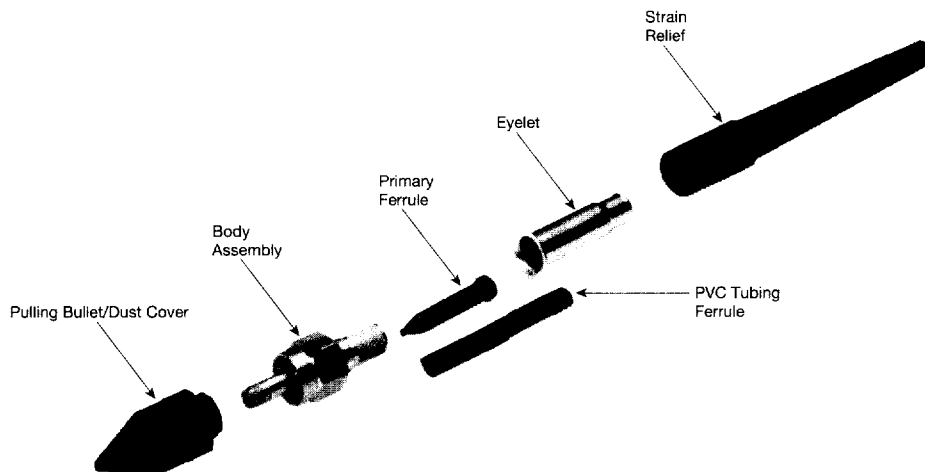
Dimensioning:
Unless otherwise specified, all
dimensions are in millimeters.

Plugs

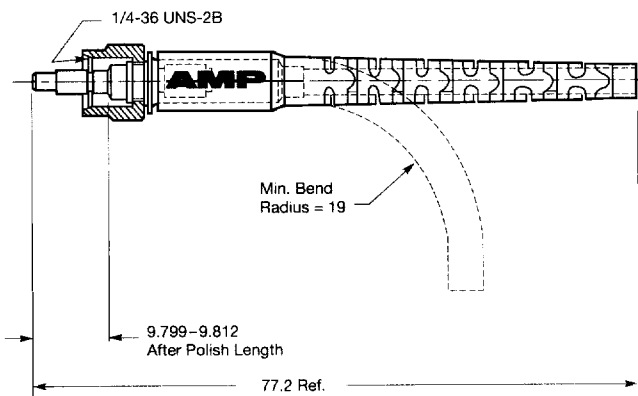
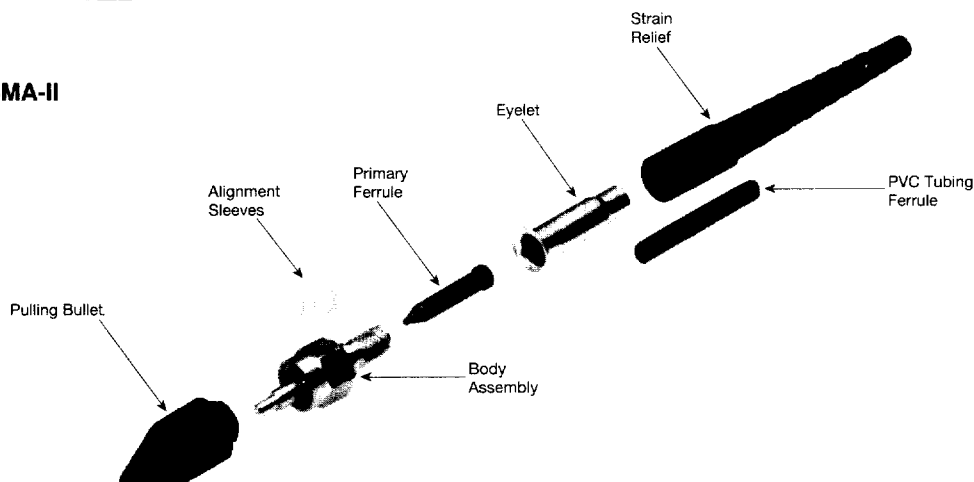
Product Facts

- Industry compatible with 905 (FSMA-I) and 906 (FSMA-II) style connectors
- Terminates fiber sizes from 125 through 1000 microns in diameter
- Design parameters conform to the proposed NATO and IEC interface standards for military and instrument applications
- Resilient tip design of FSMA-I connectors minimizes mating tolerance problems
- Environmental sealing available³
- Single crimp design allows all crimps to be made simultaneously with one tool
- Corrosion resistant construction
- Performance and reliability at low cost

FSMA-I



FSMA-II



Typical Assembled View

Performance Characteristics

Insertion Loss: 1.5 dB typical

Temperature Range:

Nickel plated brass and stainless steel— -55°C to +105°C

Durability: 200 mating cycles (Test Results)

Cable Retention: 266.9 N min. depending on cable construction

Materials:

Connector Body—Stainless steel or nickel plated brass

Coupling Nut—Stainless steel or nickel plated brass

Alignment Sleeves—Thermoplastic

FSMA-I Connector Tip—Thermoplastic

Eyelet—Tin plated copper

Tubing—PVC

Primary Ferrule—Thermoplastic

Strain Relief—Thermoplastic

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Connector Body Material	Fiber Diameter (μm)	Part Numbers					
		Nominal Jacket O.D. ¹ Less Than 3.0 w/o Strength Members		Nominal Jacket O.D. 3.0 w/ Strength Members ²		Nominal Jacket O.D. 3.8 w/ Strength Members	
		FSMA-I	FSMA-II	FSMA-I	FSMA-II	FSMA-I	FSMA-II
Nickel Plated Brass	125	501002-1	—	501003-1	—	501004-1	—
	140	501002-2	—	501003-2	—	501004-2	—
	230	501002-4	—	501003-4	—	501004-4	—
	500	501002-8	—	501003-8	—	501004-8	—
	1000	1-501002-1	—	1-501003-1	—	1-501004-1	—
Stainless Steel	125	—	501029-1	—	501030-1	—	501031-1
	140	—	501029-2	—	501030-2	—	501031-2
	230	—	501029-4	—	501030-4	—	501031-4
	1000	—	501029-8	—	501030-8	—	501031-8

¹Nominal cable jacket O.D.

²Spacer tube included with these kits.

³For environmental sealing, order optional O-ring No. 19195-2.

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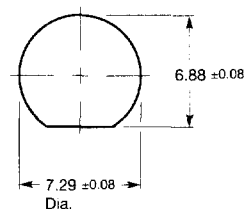
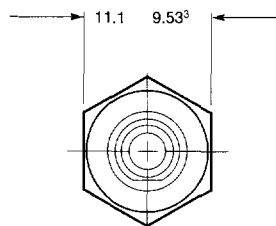
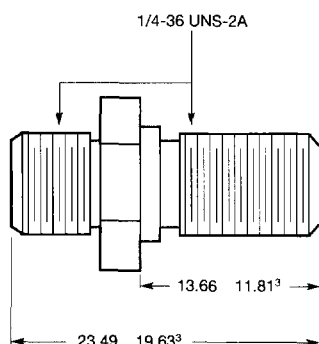
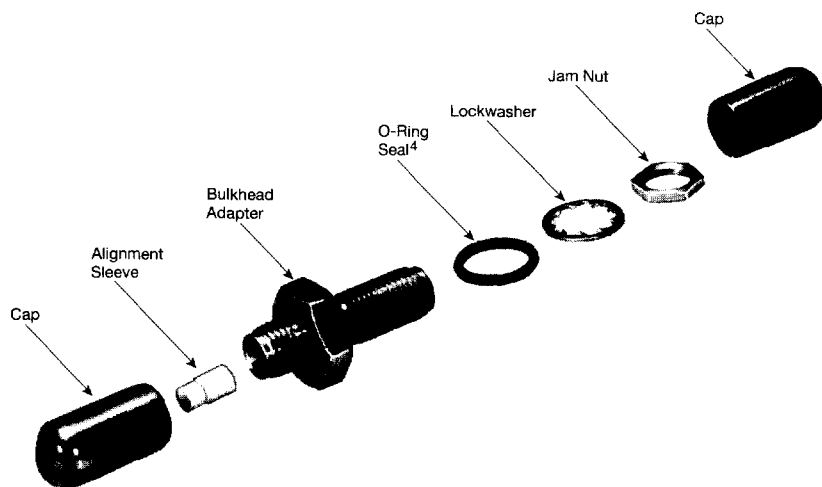
**Receptacle—
Coupling Bushing
Unsealed—Part No.
501049-1¹
Sealed—Part No.
501050-1^{1,2}**

Product Facts

- Use with two standard FSMA-I or FSMA-II plugs (see pages 6026 and 6027)
- Design parameters conform to the proposed NATO and IEC interface standards for military and instrument applications
- Corrosion resistant construction
- Performance and reliability at low cost
- Environmentally sealed and unsealed versions available
- Metal bodies ensure EMI/RFI shielding for sensitive electro-optic circuitry
- D-cut shoulder on coupling bushing provides orientation and aids in installation

Material:

Stainless steel, passivated



**Recommended
Panel Cutout**

¹Includes lockwasher, jam nut and protective cap.

²Includes O-ring seal.

³Indicates length of unsealed version.

⁴O-ring seal included with 501050-1 only.

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Active Device Mounts

Product Facts

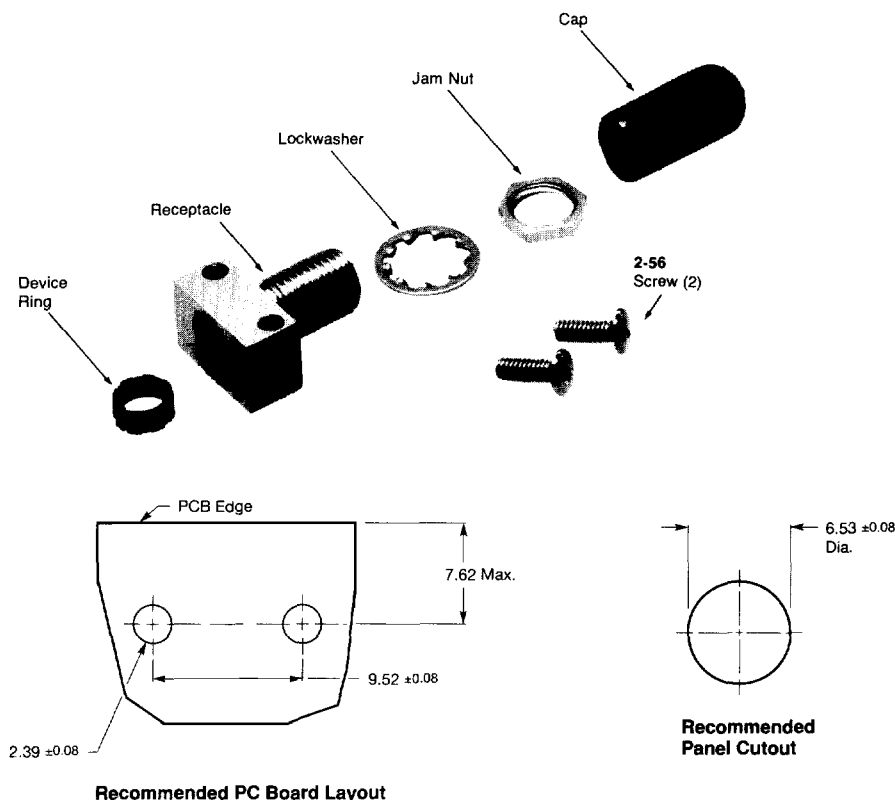
- Accepts TO-18, TO-46, TO-52 and Honeywell Low-Cost Plastic Sweetspot⁶ active devices
- PC Board and Panel Mount designs available
- Corrosion resistant construction
- Use with FSMA-I or FSMA-II plugs (see pages 6026 and 6027)
- Environmentally sealed and unsealed versions available

Material:

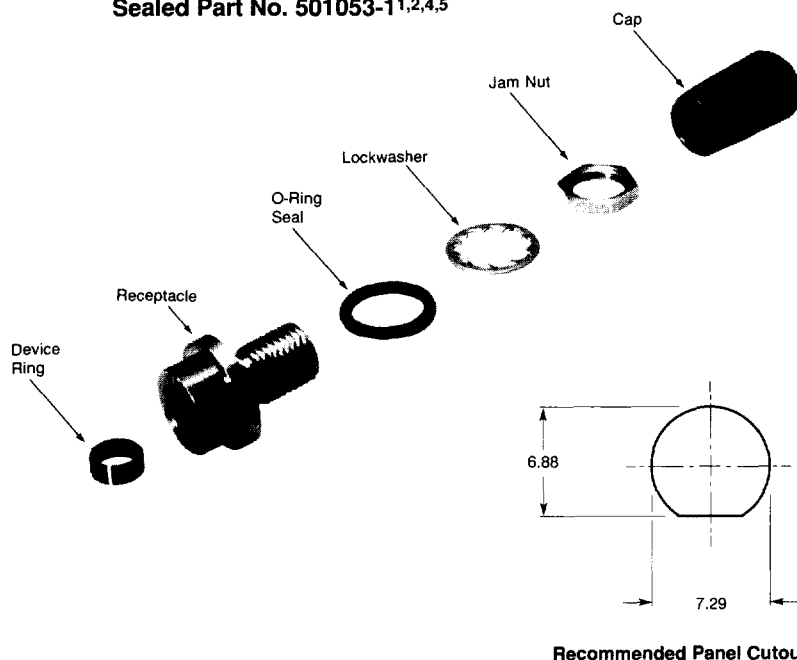
Stainless steel, passivated or zinc die cast, nickel plated

PC Board Mount—Part No. 501054-1,2,3,4

PC Board/Panel Mount—Part No. 501055-1,2,3,4 (Stainless Steel)
Part No. 502136-1,2,3,4 (Nickel Plated, Zinc Die Cast)



Panel Mount—Unsealed Part No. 501052-1,2,4 Sealed Part No. 501053-1,2,4,5



Recommended Panel Cutout

- ¹Includes lockwasher and jam nut.
²Includes device ring.
³Includes (2) 2-56 mounting screws.
⁴Includes protective cap.
⁵Includes panel O-ring seal.
⁶Trademark of Honeywell Inc.