

DIAMOND

Fiber Optic Components

FSMA Ø 2.5
CONNECTOR
HMS-10/AG SM
HFS-10/AG MM

Specifications:

	Single mode		Multimode		Units	Test conditions
Insertion loss (IL)	typ 0.2	max 0.5	typ 0.2	max 0.5	dB	IEC 1300-3-4; λ = 1300/1550 nm
Return loss (RL)*	45		40		dB	IEC 1300-3-6; λ = 1300/1550 nm
Repeatability	IL: max ±0.1				dB	
Service life	min 1000 matings					
Operating temperature	-40	+85	-40	+85	°C	
Storage temperature	-40	+90	-40	+90	°C	
Strain relief (cable)	100 (signal interruption at 10)				N	

* Measured with high resolution reflectometer HP 8504A

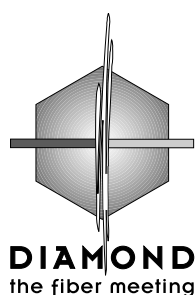
APPLICATIONS: Telecommunications, CATV, LAN, MAN, WAN,
Test & Measurement, Industry, Medical,
Sensors

COMPATIBILITY: With SMA connectors with Ø 2.5 mm ferrules

DESIGN/MATERIALS: Fiber alignment: SM: Active Core Alignment
via patented two-step
crimping process
MM: Via patented crimping
process
Polish: Convex (PC)
Ferrule: Ø 2.5 mm tungsten carbide
with copper-nickel alloy
insert, spring loaded (10 N),
anti-rotation keyed, with air
pressure relief guides
Mating adapter: Tungsten carbide in Inox
housing
External parts: Inox, 1/4"-36 UNS SMA
threading
Cable retention: Coupled to ferrule on cable
ODs ≤ 3.5 mm, signal
interruption at 10 N

AVAILABLE AS: - Underminated connector
- Terminated patch cable, patchcord or pigtail
See ordering information on reverse

**TERMINATION TOOLS
AND EQUIPMENT:** See section on Tools and Equipment



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*Specifications subject to change
without notice*

002-037-205P002028

CONNECTOR

SINGLE MODE

Type designation:**HMS-10/AG**

Ferrule materials:**Tungsten carbide/copper-nickel alloy insert**

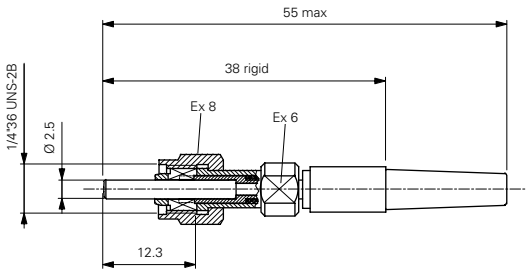
External parts:**Inox**

Polish geometry:**Convex (PC)**

Dimensions Fiber/Cable	Order Number			
	Unterminated connector	Terminated assembly		
9/125/900	2 4 2 - 0 0 0 - 0 0 1 L 0 0 0	2 4 2 - x x x - 0 0 1 L x x x		
9/125/900/2100	2 4 2 - 0 0 0 - 0 0 2 L 0 0 0	2 4 2 - x x x - 0 0 2 L x x x		
9/125/900/2500	2 4 2 - 0 0 0 - 0 0 3 L 0 0 0	2 4 2 - x x x - 0 0 3 L x x x		
9/125/900/3000	2 4 2 - 0 0 0 - 0 0 4 L 0 0 0	2 4 2 - x x x - 0 0 4 L x x x		
9/125/900/3500	2 4 2 - 0 0 0 - 0 0 5 L 0 0 0	2 4 2 - x x x - 0 0 5 L x x x		

Connectors for other fiber and cable dimensions available upon request

FSMA



MULTIMODE

Type designation:**HFS-10/AG**

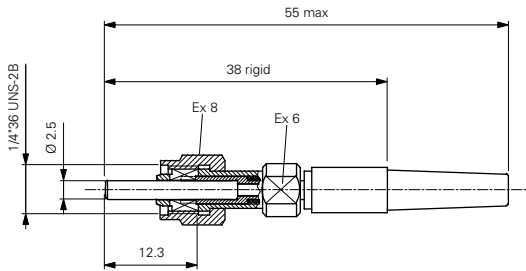
Ferrule materials:**Tungsten carbide/copper-nickel alloy insert**

External parts:**Inox**

Polish geometry:**Convex (PC)**

Dimensions Fiber/Cable	Order Number			
	Unterminated connector	Terminated assembly		
50/125/900	2 4 1 - 0 0 0 - 0 0 1 L 0 0 0	2 4 1 - x x x - 0 0 1 L x x x		
50/125/900/2100	2 4 1 - 0 0 0 - 0 0 2 L 0 0 0	2 4 1 - x x x - 0 0 2 L x x x		
50/125/900/2500	2 4 1 - 0 0 0 - 0 0 3 L 0 0 0	2 4 1 - x x x - 0 0 3 L x x x		
50/125/900/3000	2 4 1 - 0 0 0 - 0 0 4 L 0 0 0	2 4 1 - x x x - 0 0 4 L x x x		
50/125/900/3500	2 4 1 - 0 0 0 - 0 0 5 L 0 0 0	2 4 1 - x x x - 0 0 5 L x x x		

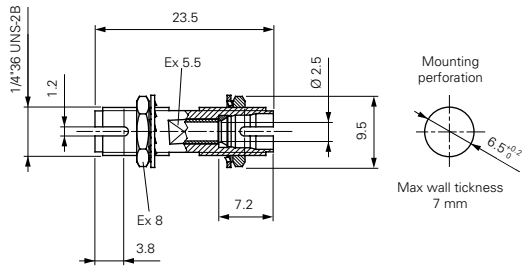
Connectors for other fiber and cable dimensions available upon request



MATING ADAPTER

Type designation:**MMT-10.2/A**

Material		Order Number
Mating sleeve	External parts	
Zirconia	Inox	1 4 7 - 3 0 1 - 9 0 1 V 0 0 1



Order Number Codes

- ¹ Connector code

² Connector code for termination on other end of assembly
 - For pigtails: insert 000
 - For patch assemblies: insert connector code for other connector

³ Code for fiber or cable

⁴ Length in meters
- See ordering information for additional details