

DIAMOND

Fiber Optic Components

DIAMOND

Ø 2.5 mm
SINGLE MODE
CONNECTOR
HMS-10

Insertion loss (IL)*	typ	0.2 dB	max	0.5 dB
Return loss (RL)	typ	45 dB	min	40 dB
Repeatability	IL:	± 0.2 dB over service life		
Service life	min 1000 matings			
Operating temperature	-40 to +85° C.			
Storage temperature	-40 to +90° C.			
Strain relief (cable)	> 200 N (signal interruption at 25 N)			

* Measurement conditions: per IEC 874-1, Method 7 (CECC 86 000, Method 7), 9/125 µm fiber, λ= 1300 nm, T= 23° C.

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

COMPATIBILITY: With all DIAMOND connectors with Ø 2.5 mm ferrules and M9x0.5-threaded or BNC locking mechanism

DESIGN/MATERIALS:

Fiber alignment: Active Core Alignment via patented two-step crimping process

Polish: Convex (PC)

Ferrule: Ø 2.5 mm tungsten carbide with copper-nickel alloy insert, spring loaded (25 N), anti-rotation keyed, with air pressure relief guides

Mating adapter: Rigid tungsten carbide sleeve

External parts: Copper-nickel alloy

Cable retention: Coupled to ferrule...

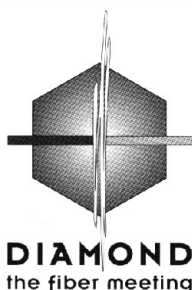
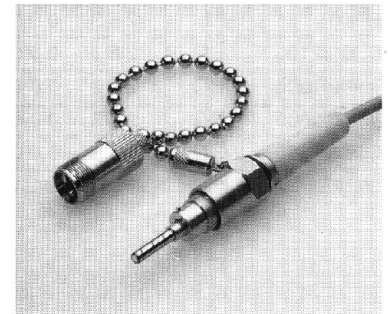
- internally on cable with OD ≤ 3 mm (p/n suffix .../"RG")
- externally on cable with 3 ≤ OD ≤ 6 mm (p/n suffix .../"SG")
- Compact design for fiber (p/n suffix .../"M")

AVAILABLE AS:

- Unterminated 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

002-037-206P001028

Order numbers:

CONNECTOR

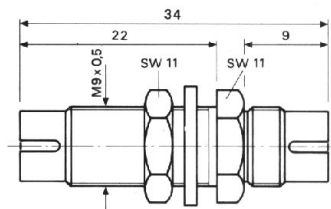
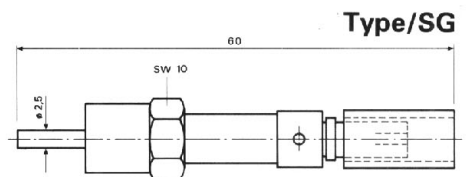
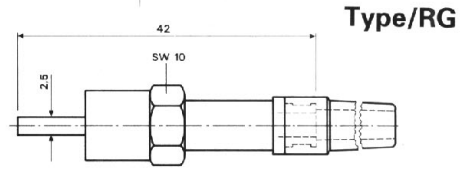
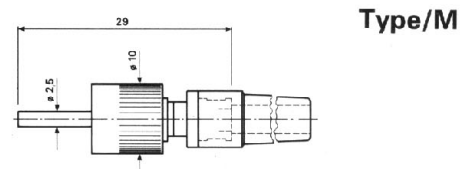
Type designation: **HMS-10**
 Ferrule material: Tungsten carbide/copper-nickel alloy insert
 External parts: Copper-nickel alloy
 Polish geometry: Convex (PC)

Dimensions Fiber/Cable	Type	Order Number	
		Unterminated connector	Terminated assembly
9/125/900	/M	253 - 000 - 001 L 000	253 - xxx - 001 L xxx
9/125/900/2100	/RG	253 - 000 - 002 L 000	253 - xxx - 002 L xxx
9/125/900/2500	/RG	253 - 000 - 003 L 000	253 - xxx - 003 L xxx
9/125/900/3000	/RG	253 - 000 - 004 L 000	253 - xxx - 004 L xxx
9/125/900/3500	/SG	253 - 000 - 005 L 000	253 - xxx - 005 L xxx

Connectors for other fiber and cable dimensions available upon request

1 2 3 4

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MATING ADAPTER

Type designation: **MMT-10**

Material		Bestellnummern
Mating sleeve	External parts	
Tungsten carbide	Copper-nickel alloy	130 - 304 - 901 V 001

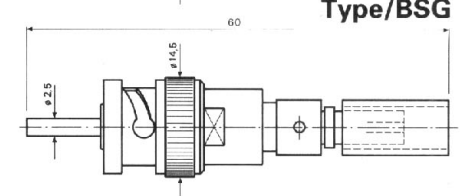
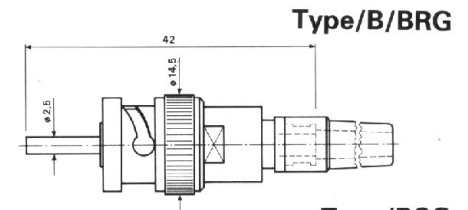
BNC CONNECTOR

Type designation: **HMS-10/B**
 Ferrule material: Tungsten carbide/copper-nickel alloy insert
 External parts: Copper-nickel alloy
 Polish geometry: Convex (PC)

Dimensions Fiber/Cable	Type	Order Number	
		Unterminated connector	Terminated assembly
9/125/900	/B	255 - 000 - 001 L 000	255 - xxx - 001 L xxx
9/125/900/2100	/BRG	255 - 000 - 002 L 000	255 - xxx - 002 L xxx
9/125/900/2500	/BRG	255 - 000 - 003 L 000	255 - xxx - 003 L xxx
9/125/900/3000	/BRG	255 - 000 - 004 L 000	255 - xxx - 004 L xxx
9/125/900/3500	/BSG	255 - 000 - 005 L 000	255 - xxx - 005 L xxx

Connectors for other fiber and cable dimensions available upon request

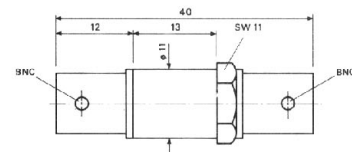
1 2 3 4



MATING ADAPTER

Type designation: **MMT-10/B**

Material		Bestellnummern
Mating sleeve	External parts	
Tungsten carbide	Copper-nickel alloy	132 - 304 - 901 V 001



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