

DIAMOND

Fiber Optic Components

FC

ONE PIECE CONNECTOR

HPC-S0.66 SM

HPC-M0.66 MM

HPC-S8.66 SM/APC

HPC-S8.66/X SM/APC

Specifications:

	Single mode	Multimode	Single mode 8° APC	Units	Test conditions
Insertion loss (IL)	typ 0.2 max 0.4	typ 0.15 max 0.4	typ 0.2 max 0.4	dB	IEC 1300-3-4; $\lambda = 1300/1550\text{nm}$
Return loss (RL)	50	min 40	min 70*	dB	IEC 1300-3-6; $\lambda = 1300/1550\text{nm}$
Repeatability of IL	max ± 0.1	max ± 0.1	max ± 0.1	dB	Over service life
Service life	1000 mate/demate cycles				
Operating temperature	-40 +85	-40 +85	-40 +85	°C	
Storage temperature	-40 +90	-40 +90	-40 +90	°C	
Strain relief (cable)	> 100			N	

* Measured with high resolution reflectometer HP 8504A

APPLICATIONS:

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

STANDARDS:

FC/PC: IEC 874-7, CECC 86 115-801

FC/APC: With all FC/APC connectors with key
 $\varnothing 2$ or 2.15 mm

DESIGN/MATERIALS:

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

MM: Via patented crimping
process

Polish: FC/PC: Convex (PC)
FC/APC: 8° angled convex
(APC)

Ferrule: $\varnothing 2.5\text{ mm}$, zirconia ceramic
with extending copper-nickel
alloy insert (Pilzferrule),
spring loaded (15 N), anti-
rotation keyed

Adaptor: Floating zirconia resilient
sleeve in Ni-plated brass
housing

External parts: Ni-plated brass

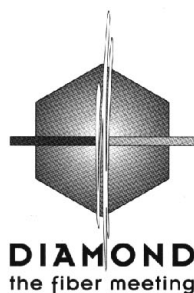
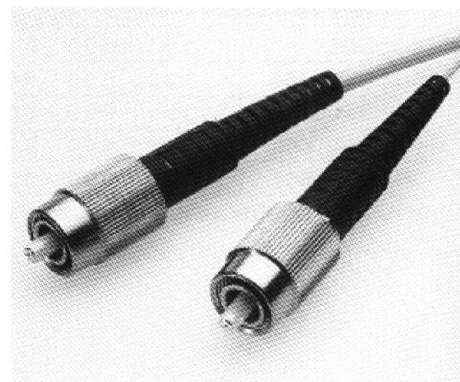
Cable retention: Decoupled from ferrule on
cable with $\varnothing \leq 3.5\text{ mm}$

AVAILABLE AS:

- Unterminated connector
 - Terminated 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*

002-037-202P006028

Order numbers:

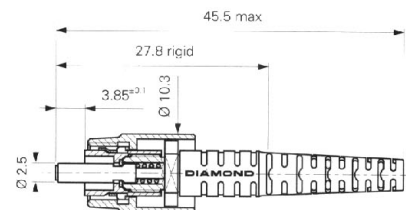
CONNECTORS

SINGLE MODE

Type designation: **HPC-S0.66**
 Ferrule material: Zirconia/copper-nickel alloy insert (Pilzferrule)
 External parts: Ni-plated brass
 Polish geometry: Convex (PC)

Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
9/125/900	179 - 000 - 001 L 000	179 - xxx - 001 L xxx
9/125/900/2100	179 - 000 - 002 L 000	179 - xxx - 002 L xxx
9/125/900/2500	179 - 000 - 003 L 000	179 - xxx - 003 L xxx
9/125/900/3000	179 - 000 - 004 L 000	179 - xxx - 004 L xxx
9/125/900/3500	179 - 000 - 005 L 000	179 - xxx - 005 L xxx

Connectors for other fiber and cable dimensions available upon request

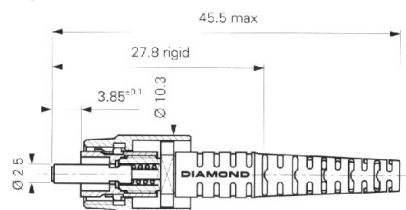


MULTIMODE

Type designation: **HPC-M0.66**
 Ferrule material: Zirconia/copper-nickel alloy insert (Pilzferrule)
 External parts: Ni-plated brass
 Polish geometry: Convex (PC)

Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
50/125/900	180 - 000 - 001 L 000	180 - xxx - 001 L xxx
50/125/900/2100	180 - 000 - 002 L 000	180 - xxx - 002 L xxx
50/125/900/2500	180 - 000 - 003 L 000	180 - xxx - 003 L xxx
50/125/900/3000	180 - 000 - 004 L 000	180 - xxx - 004 L xxx
50/125/900/3500	180 - 000 - 005 L 000	180 - xxx - 005 L xxx

Connectors for other fiber and cable dimensions available upon request



ADAPTORS

Type designation: **MPC-S0.22**

Mating sleeve	Material	External parts	Order Number
	Zirconia	Ni-plated brass	110 - 301 - 907 V 001

Type designation: **MPC-M0.22**

Mating sleeve	Material	External parts	Order Number
	Zirconia	Ni-plated brass	110 - 301 - 919 V 001

Type designation: **MPC-S0.22/6 Kt.**

Mating sleeve	Material	External parts	Order Number
	Zirconia	Ni-plated brass	110 - 301 - 903 V 001

Type designation: **MPC-M0.22/6 Kt.**

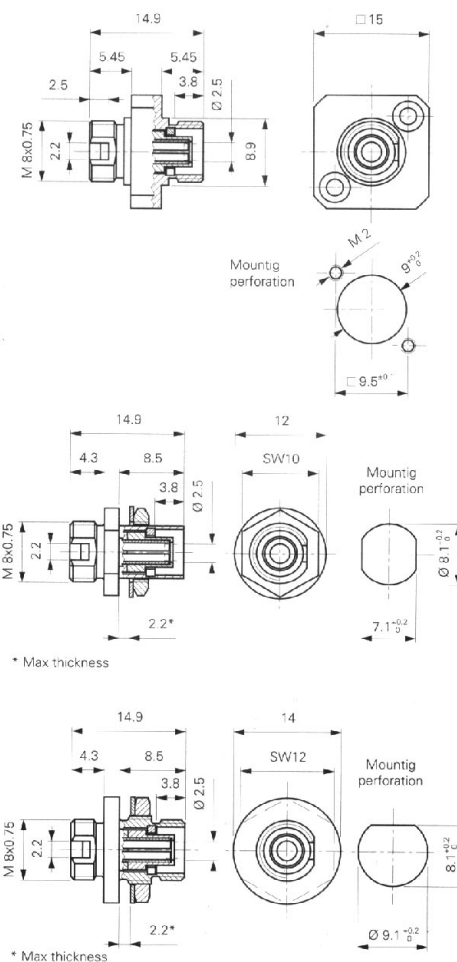
Mating sleeve	Material	External parts	Order Number
	Zirconia	Ni-plated brass	110 - 301 - 920 V 001

Type designation: **MPC-S0.22/Y**

Mating sleeve	Material	External parts	Order Number
	Zirconia	Ni-plated brass	110 - 301 - 905 V 001

Type designation: **MPC-M0.22/Y**

Mating sleeve	Material	External parts	Order Number
	Zirconia	Ni-plated brass	110 - 301 - 921 V 001



Order numbers:

CONNECTORS

SINGLE MODE APC CONVEX, key $\varnothing$ 2.14 mm

Type designation: **HPC-S8.66**

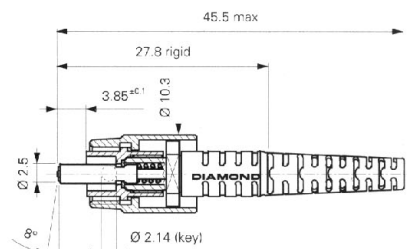
Ferrule material: Zirconia/copper-nickel alloy insert (Pilzferrule)

External parts: Ni-plated brass

Polish geometry: 8° angled convex (APC)

Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
9/125/900	181 - 000 - 001 L 000	181 - xxx - 001 L xxx
9/125/900/2100	181 - 000 - 002 L 000	181 - xxx - 002 L xxx
9/125/900/2500	181 - 000 - 003 L 000	181 - xxx - 003 L xxx
9/125/900/3000	181 - 000 - 004 L 000	181 - xxx - 004 L xxx
9/125/900/3500	181 - 000 - 005 L 000	181 - xxx - 005 L xxx

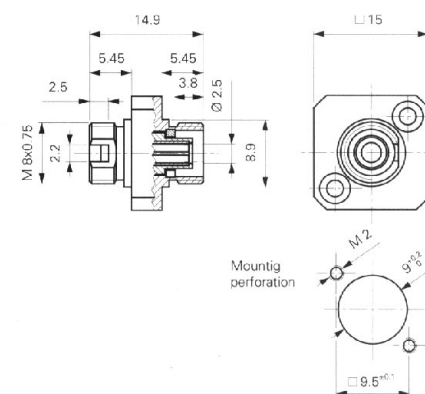
Connectors for other fiber and cable dimensions available upon request



ADAPTORS

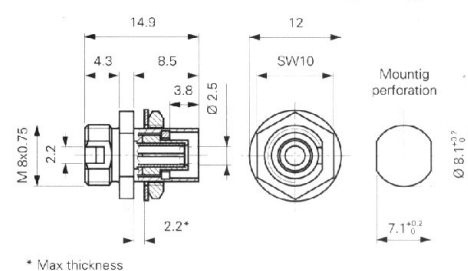
Type designation: **MPC-S8.22**

Mating sleeve	Material		Order Number
	External parts		
Zirconia	Ni-plated brass		110 - 301 - 904 V 001



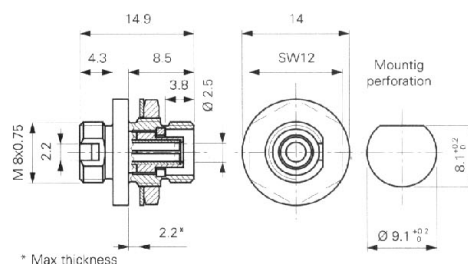
Type designation: **MPC-S8.22/6 Kt.**

Mating sleeve	Material		Order Number
	External parts		
Zirconia	Ni-plated brass		110 - 301 - 903 V 002



Type designation: **MPC-S8.22/Y**

Mating sleeve	Material		Order Number
	External parts		
Zirconia	Ni-plated brass		110 - 301 - 905 V 002



Order numbers:

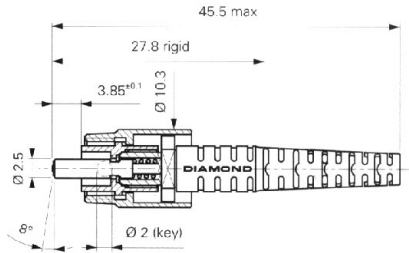
CONNECTORS

SINGLE MODE APC CONVEX, key Ø 2 mm

Type designation: **HPC-S8.66/X**
Ferrule material: Zirconia/copper-nickel alloy insert (Pilzferrule)
External parts: Ni-plated brass
Polish geometry: 8° angled convex (APC)

Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
9/125/900	183 - 000 - 001 L 000	183 - xxx - 001 L xxx
9/125/900/2100	183 - 000 - 002 L 000	183 - xxx - 002 L xxx
9/125/900/2500	183 - 000 - 003 L 000	183 - xxx - 003 L xxx
9/125/900/3000	183 - 000 - 004 L 000	183 - xxx - 004 L xxx
9/125/900/3500	183 - 000 - 005 L 000	183 - xxx - 005 L xxx

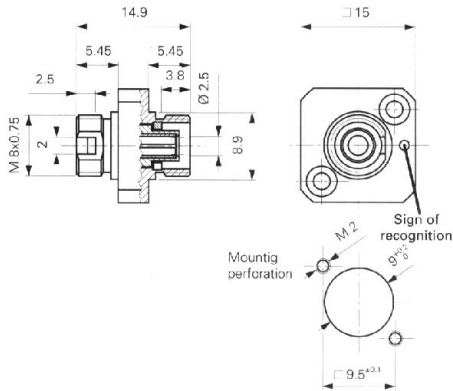
Connectors for other fiber and cable dimensions available upon request



ADAPTORS

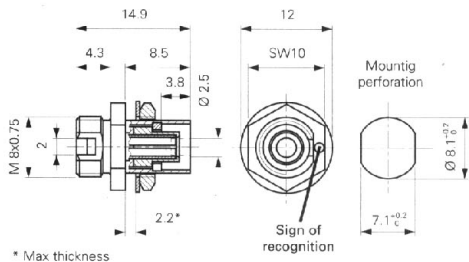
Type designation: **MPC-S8.22/X**

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	110 - 301 - 904 V 002



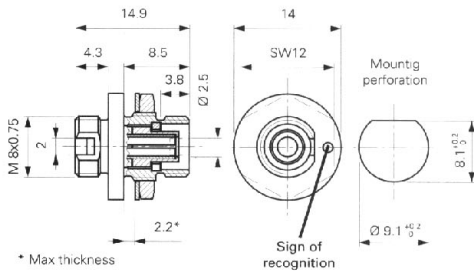
Type designation: **MPC-S8.22/6 Kt. X**

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	110 - 301 - 911 V 002



Type designation: **MPC-S8.22/YX**

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	110 - 301 - 912 V 002



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