

DIAMOND

Fiber Optic Components

FC-MINI

ONE PIECE CONNECTOR

HPC-S0.66/M **SM**

HPC-M0.66/M **MM**

HPC-S8.66/M **SM/APC**

HPC-S8.66/MX **SM/APC**

Specifications:

	Multimode		Single mode		Single mode 8° APC		Units	Test conditions
Insertion loss (IL)	type 0.15	max 0.4	type 0.2	max 0.4	type 0.2	max 0.4	dB	IEC 1300-3-4; $\lambda = 1300/1550\text{nm}$
Return loss (RL)	min 40		50		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	May be further limited by cable specifications.
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:

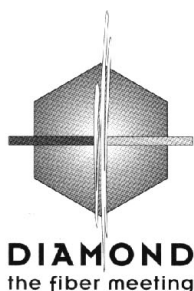
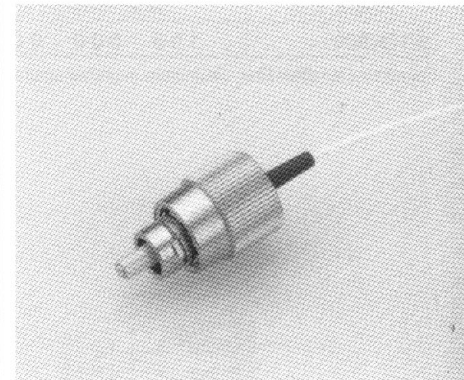
FC/PC: IEC 874-7, CECC 86 115-801
FC/APC: With all FC/APC connectors with key
 $\varnothing 2$ or 2.14 mm

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: $\varnothing 2.5$ 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

AVAILABLE AS:

- Unterminated connector
 - Terminated patchcord or pigtail
- See ordering information on reverse



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Specifications subject to change
without notice

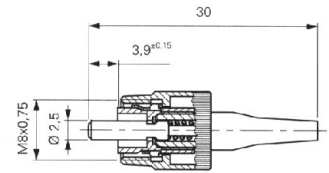
002-037-202P003120

Order numbers:

CONNECTORS

SINGLE MODE

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



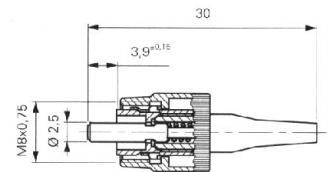
Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
9/125/900	193 - 000 - 001 L 000	193 - xxx - 001 L xxx

Connectors for other fiber dimensions available upon request.

1 2 3 4

MULTIMODE

Type designation: **HPC-M0.66/M**
 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	194 - 000 - 001 L 000	194 - xxx - 001 L xxx

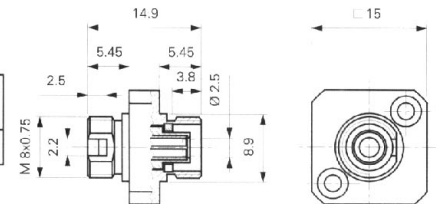
Connectors for other fiber dimensions available upon request.

1 2 3 4

ADAPTORS

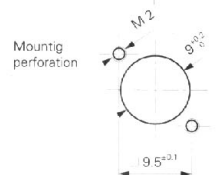
Type designation: **MPC-S0.22**

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



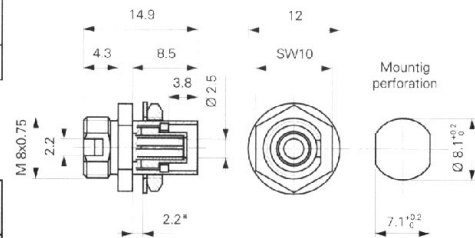
Type designation: **MPC-M0.22**

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



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

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



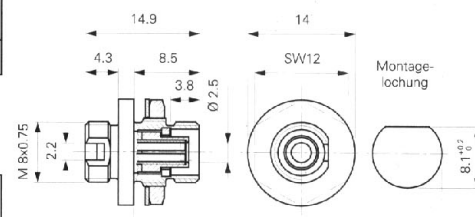
* Max thickness

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

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

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

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



* Max thickness

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

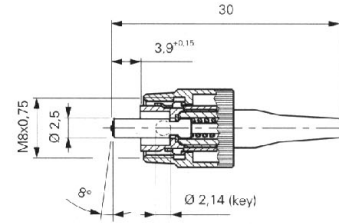
Mating sleeve	Material		Order Number
	External parts		
Zirconia	Ni-plated brass		110 - 301 - 921 V 001

Order numbers:

CONNECTORS

SINGLE MODE APC CONVEX, key \varnothing 2.14 mm

Type designation: **HPC-S8.66/M**
 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	195 - 000 - 001 L 000	195 - xxx - 001 L xxx

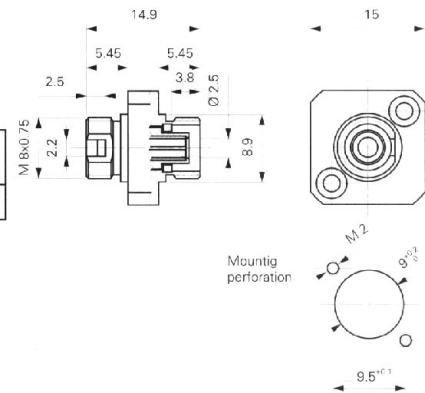
Connectors for other fiber dimensions available upon request.

1 2 3 4

ADAPTORS

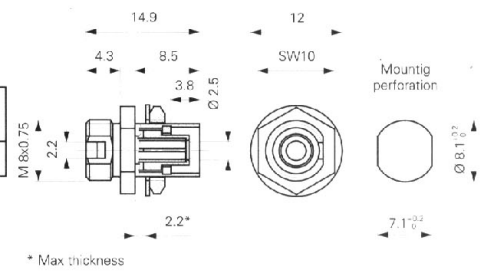
Type designation: **MPC-S8.22**

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



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

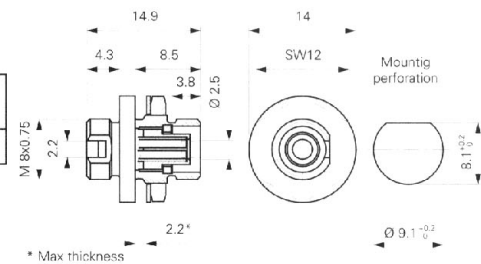
Mating sleeve	Material		Order Number
	External parts		
Zirconia	Ni-plated brass		110 - 301 - 903 V 002



* Max thickness

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

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



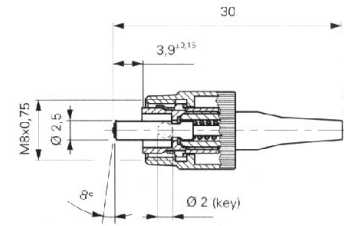
* Max thickness

Order numbers:

CONNECTORS

SINGLE MODE APC CONVEX, key \varnothing 2 mm

Type designation: **HPC-S8.66/MX**
 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	196 - 000 - 001 L 000		196 - xxx - 001 L xxx	

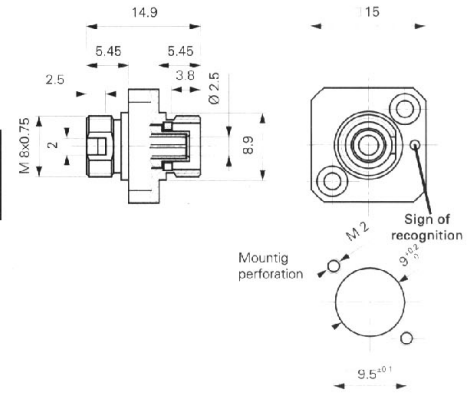
Connectors for other fiber dimensions available upon request.

1 2 3 4

ADAPTORS

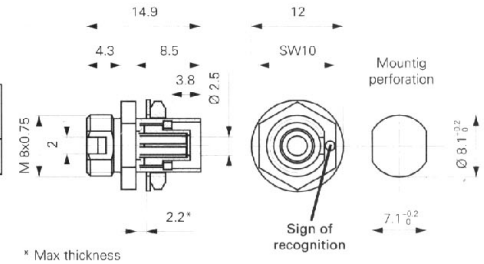
Type designation: **MPC-S8.22/X**

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



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

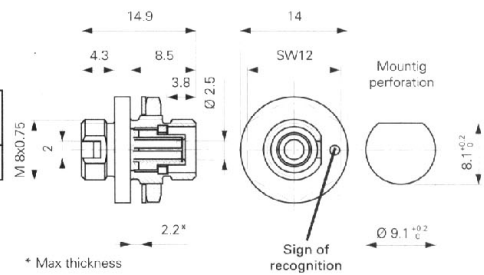
Material		External parts	Order Number
Mating sleeve			
Zirconia		Ni-plated brass	110 - 301 - 911 V 002



* Max thickness

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

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



* Max thickness

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