

DIAMOND

Fiber Optic Components

Specifications:

STANDARD	Multimode	Single mode	Single mode 8° APC	Units	Test conditions
Insertion loss (IL)	typ 0.15 max 0.4	typ 0.2 max 0.4	typ 0.2 max 0.4	dB	IEC 61300-3-4; $\lambda = 1300/1550\text{nm}$
Return loss (RL)	min 35 typ 40	min 45 typ 50	min 70*	dB	IEC 61300-3-6; $\lambda = 1300/1550\text{nm}$
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			°C	May be further limited by cable specifications
Storage temperature	-40 / +90			°C	
Strain relief (cable)	> 100			N	

* Measured with high precision reflectometer

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 Ø 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:	Ø 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 and Plastic black		
	Cable retention:	Decoupled from ferrule on cable with Ø ≤ 3.5 mm		
AVAILABLE AS:	- Unterminated connector - Terminated patchcord or pigtail			

FC
ALBERINO-CONNECTOR
HPC-S0.66 Alb SM
HPC-M0.66 Alb MM
HPC-S8.66 Alb SM/APC
HPC-S8.66/X Alb SM/APC



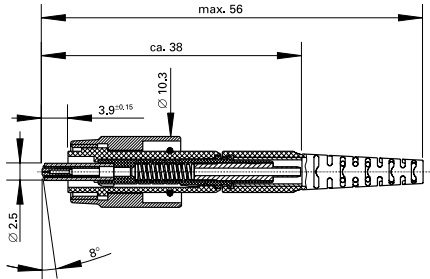
Order numbers: CONNECTORS

SINGLE MODE APC CONVEX, key $\varnothing 2$ mm

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

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

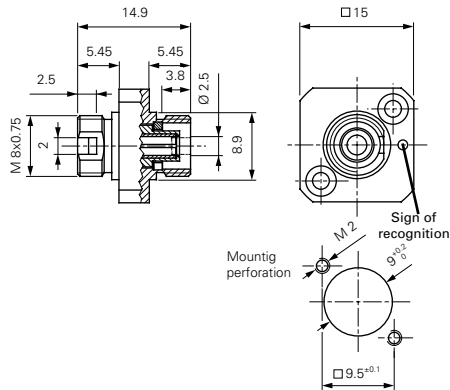
Connectors for other fiber and cable dimensions available upon request



ADAPTORS

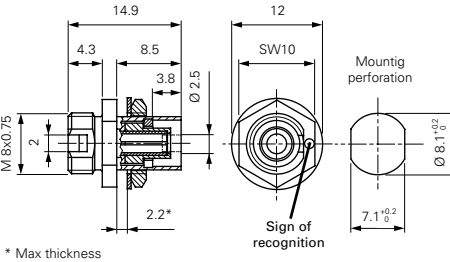
Type designation: MPC-S8.22/X

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 0 4 V 0 0 2



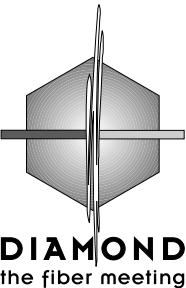
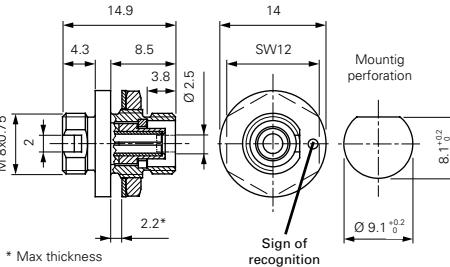
Type designation: MPC-S8.22/6 Kt. X

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 1 1 V 0 0 2



Type designation: MPC-S8.22/YX

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 1 2 V 0 0 2



DIAMOND SA
Via dei Patrizi 5
CH-6616 LOSONE
Tel. ++41-91/785 45 45
Fax ++41-91/785 45 00
e-mail: info@diamond-fo.com

Specifications subject to change
without notice

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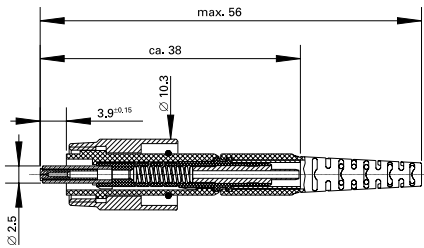
CONNECTORS

SINGLE MODE PC CONVEX, Key Ø 2,14 mm

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

Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
9/125/900	1 8 9 - 0 0 0 - 0 0 1 L 0 0 0	1 8 9 - x x x - 0 0 1 L x x x
9/125/900/2100	1 8 9 - 0 0 0 - 0 0 2 L 0 0 0	1 8 9 - x x x - 0 0 2 L x x x
9/125/900/2500	1 8 9 - 0 0 0 - 0 0 3 L 0 0 0	1 8 9 - x x x - 0 0 3 L x x x
9/125/900/3000	1 8 9 - 0 0 0 - 0 0 4 L 0 0 0	1 8 9 - x x x - 0 0 4 L x x x
9/125/900/3500	1 8 9 - 0 0 0 - 0 0 5 L 0 0 0	1 8 9 - x x x - 0 0 5 L x x x

Connectors for other fiber and cable dimensions available upon request



MULTIMODE PC CONVEX, Key Ø 2,14 mm

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

Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
50/125/900	1 9 0 - 0 0 0 - 0 0 1 L 0 0 0	1 9 0 - x x x - 0 0 1 L x x x
50/125/900/2100	1 9 0 - 0 0 0 - 0 0 2 L 0 0 0	1 9 0 - x x x - 0 0 2 L x x x
50/125/900/2500	1 9 0 - 0 0 0 - 0 0 3 L 0 0 0	1 9 0 - x x x - 0 0 3 L x x x
50/125/900/3000	1 9 0 - 0 0 0 - 0 0 4 L 0 0 0	1 9 0 - x x x - 0 0 4 L x x x
50/125/900/3500	1 9 0 - 0 0 0 - 0 0 5 L 0 0 0	1 9 0 - x x x - 0 0 5 L x x x

Connectors for other fiber and cable dimensions available upon request

ADAPTORS

Type designation: MPC-S0.22

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 0 7 V 0 0 1

Type designation: MPC-M0.22

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 1 9 V 0 0 1

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

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 0 3 V 0 0 1

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

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 2 0 V 0 0 1

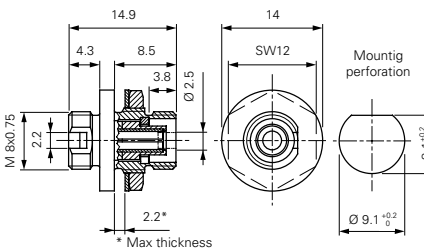
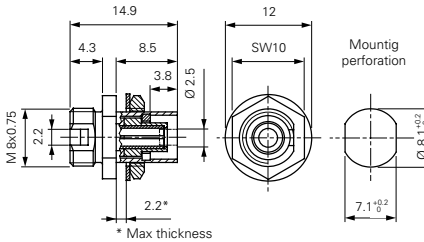
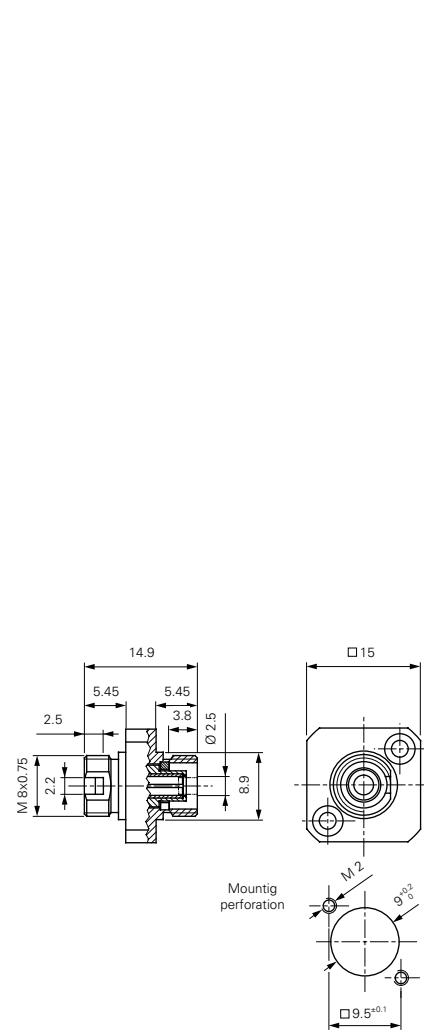
Type designation: MPC-S0.22/Y

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 0 5 V 0 0 1

Type designation: MPC-M0.22/Y

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 2 1 V 0 0 1

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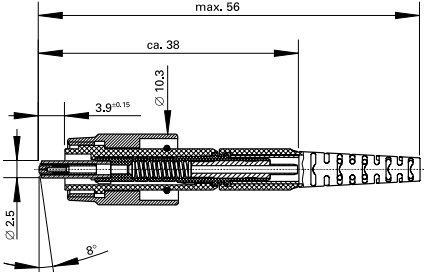
CONNECTORS

SINGLE MODE APC CONVEX, Key Ø 2.14 mm

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

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

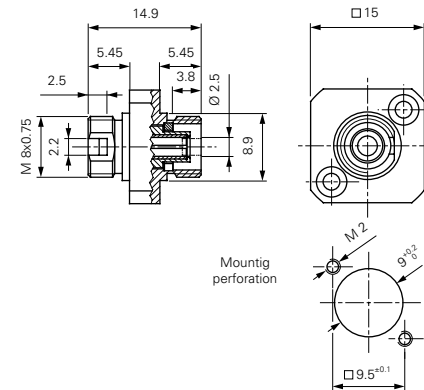
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ADAPTORS

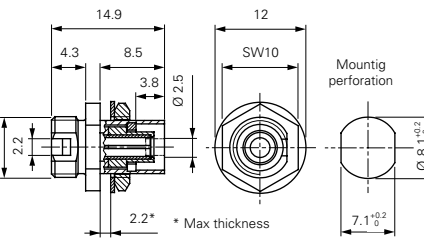
Type designation: MPC-S8.22

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 0 4 V 0 0 1



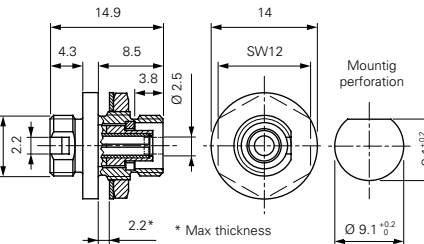
Type designation: MPC-S8.22/6 Kt.

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 0 3 V 0 0 2



Type designation: MPC-S8.22/Y

Material		Order Number
Mating sleeve	External parts	
Zirconia	Ni-plated brass	1 1 0 - 3 0 1 - 9 0 5 V 0 0 2



Order Number Codes

- 1 Connector code
 - 2 Connector code for termination on other end of assembly
 - For pigtailed: 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