

DIAMOND

Fiber Optic Components

LSD/LSD-HRL

INSERT FOR BACKPLANE CONNECTORS

D-3105.6 SM
C-338.6 MM
D-3108.6 SM/HRL

Specifications:

	Single mode	Multimode	Single mode 8°APC	Units	Test conditions
Insertion loss (IL)	typ 0.2 max 0.4	typ 0.2 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, LAN, MAN, WAN

STANDARDS:

LSD: CECC 78005-801

LSD-HRL: EN 178 000

For use with backplane connectors complying with DIN 41612, SIEDECON, SIPAC, HAR-PAC and Z-Pack. Connector on rack side:

LSD: LSA connector per CECC 86135-801

LSD-HRL: LSA connector per CECC 86135-802

DESIGN/MATERIALS:

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

Polish: LSD: Convex (PC)
LSD-HRL: 8° angled convex (APC)

Ferrule: Δ 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 copper-nickel alloy housing

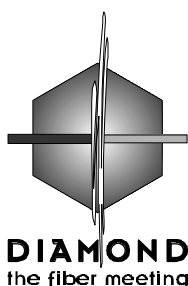
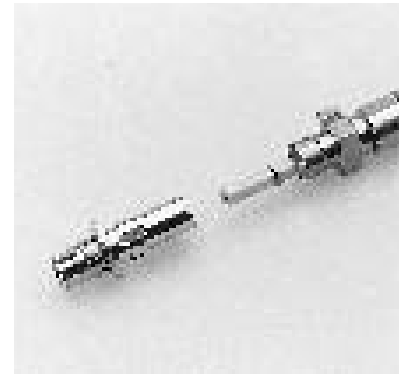
External parts: Copper-nickel alloy and Inox

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

002-037-201P010028

Order numbers:

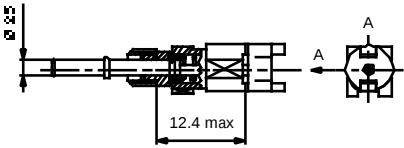
CONNECTORS

SINGLE MODE

Type designation: **D-3105.6**
Ferrule material: Zirconia/copper-nickel alloy insert (Pilzferrule)
External parts: Copper-nickel alloy
Polish geometry: Convex (PC)

Dimensions Fiber/Cable	Order Number			
	Unterminated connector	Terminated assembly		
Ø125/900	1 2 0 - 0 0 0 - 0 0 1 L 0 0 0	1 2 0	- x x x	- 0 0 1 L x x x

Connectors for other fiber and cable dimensions available upon request

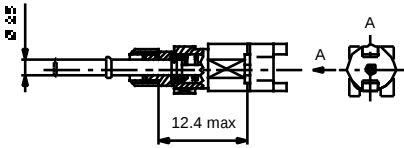


MULTIMODE

Type designation: **C-338.6**
Ferrule material: Zirconia/copper-nickel alloy insert (Pilzferrule)
External parts: Copper-nickel alloy
Polish geometry: Convex (PC)

Dimensions Fiber/Cable	Order Number			
	Unterminated connector	Terminated assembly		
Ø125/900	1 2 1 - 0 0 0 - 0 0 1 L 0 0 0	1 2 1	- x x x	- 0 0 1 L x x x

Connectors for other fiber and cable dimensions available upon request

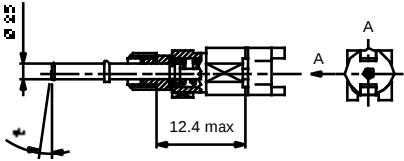


SINGLE MODE HRL CONVEX (APC)

Type designation: **D-3108.6**
Ferrule material: Zirconia/copper-nickel alloy insert (Pilzferrule)
External parts: Copper-nickel alloy
Polish geometry: 8° angled convex (APC)

Dimensions Fiber/Cable	Order Number			
	Unterminated connector	Terminated assembly		
Ø125/900	1 2 2 - 0 0 0 - 0 0 1 L 0 0 0	1 2 2	- x x x	- 0 0 1 L x x x

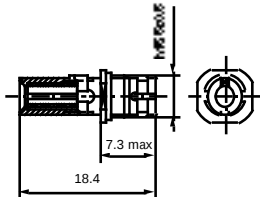
Connectors for other fiber and cable dimensions available upon request



ADAPTOR

Type designation: **D-303.23**

Material		Order Number
Mating sleeve	External parts	
Zirconia	Copper-nickel alloy/stainless	1 0 7 - 3 0 1 - 9 0 1 V 0 0 1



Order Number Codes

Connector code
Connector code for termination on other end of assembly
- For pigtails: insert 000
- For patch assemblies: insert connector code for other connector
Code for fiber or cable
Length in meters
See ordering information for additional details