

Master LSH Patchcord

Description:

We offer an extensive range of pre-terminated cable assemblies that are 100% tested to ensure conformance with your specifications. These assemblies are used for measuring and manufacturing of fiber optic components and optical network testing.

The Master patchcord is equipped with a Master connector according to the specifications below. The master connector is marked and specified with its Serial Number, which ensures traceability of transmission and geometrical parameters. The second connector is a standard type. For the hybrid patchcord version different types of master and standard connector types are also available.



Specifications:

Insertion loss2 (IL)	SM Ultra PC	SM Angle PC	
(IEC 61300-3-4)	0.10 dB max	0.10 dB max	
Return loss2 (RL) (IEC 61300-3-6, method 1)	≥ 55 dB1	≥ 70 dB1	
PDL2	max 0.1 dB		
Strain relief	max 100 N		
Allowable input power	max 1.0 W		
Strain relief	100 N		
Operating temperature	-30°C to +70°C		
Durability	min 1000 cycles		
Assembly procedure	glue and polish		
Connection	physical contact		
Lock mechanism	snap-on		
Standards	IEC 61753, IEC 61754-15, EN 50377-8, GR-326-CORE		
Ferrule material	full ceramic zirconia		
Connector material	UL 94-V0		
Adapter material	UL 94-V0, slotted ceramic sleeve		
Connector lifetime	20 years in environment defined by EN 61753-1:2007, category C		

Geometrical parameters:

opportunities is a registered trademark of OPTOKON, a.s. Other names and trademarks mentioned herein may be the trademarks of their respective owners. OPTOKON, a.s. reserves the right to make changes, without notice, to the products described in this document, in the interest of improving design, operational function and/or reliability. OPTOKON a.s., Červený Kříž 250, 586 01 Jihlava, Czech Republic, tel. +420 564 040 111, WWW.OPTOKON.COM, SALES@OPTOKON.COM



Eccentricity of core for the center of ferrule	≤ 0.3 / 0.55 µm		
Outer diameter of ferrule	2.5 mm connectors:	2.499 µm	
	SFF connectors:	1.249 µm	
End curve offset		≤ 25 µm	
Fiber height		-30 to +50 nm	
End curve radius: 2.5 mm connectors:	PC polishing: 10 – 18 mm	APC polishing: 5 – 12 mm	
SFF connectors:	PC/APC: 5 - 12 mm		
APC angle	8 ± 0.1°		

Features:

- ISO 9100 approved
- 100% Return loss test
- 100% Visual Inspection
- 100% Insertion loss test
- 100% Interferometric test
- Manufactured to meet IEC/EN Standards
- Batch tracebility



Single mode						
Allowable Defects and Scratches						
Zone	Description	Diameter	Defects (diameter)	Scratches (width)		
1a	Core Zone	0 to 25 μm	none	none		
1b	Cladding Zone	25 to 120 µm	any < 2 μm 5 from 2 - 5 μm none > 5 μm	none > 3 μm		
-	Adhesive Zone	120 to 130 µm	any	any		
2	Contact Zone	130 to 250 µm	none > 10 µm	any		

Visual inspection:

is a registered trademark of OPTOKON, a.s. Other names and trademarks mentioned herein may be the trademarks of their respective owners. OPTOKON, a.s. reserves the right to make changes, without notice, to the products described in this document, in the interest of improving design, operational function and/or reliability.

OPTOKON a.s., Červený Kříž 250, 586 01 Jihlava, Czech Republic, tel. +420 564 040 111, WWW.OPTOKON.COM, SALES@OPTOKON.COM



IEC Test Method::

Single mode:

Note 5) Eccentricity of core





orrown is a registered trademark of OPTOKON, a.s. Other names and trademarks mentioned herein may be the trademarks of their respective owners. OPTOKON, a.s. reserves the right to make changes, without notice, to the products described in this document, in the interest of improving design, operational function and/or reliability.

OPTOKON a.s., Červený Kříž 250, 586 01 Jihlava, Czech Republic, tel. +420 564 040 111, WWW.OPTOKON.COM, SALES@OPTOKON.COM