

LC

SENKO's Long Standing LC Connector License Offers Various Styles of LC Connectors and Adapters to Meet the Customers Need

LC PREMIUM UNIBODY Connector

LC

The LC Premium Unibody Connector molded with a Single body delivers maximum strength against mechanical tests including side loading test and TWAL tests. Manufactured to the highest standard, the LC Unibody connector is designed to meet and exceed the Verizon FOC TPR requirement and designed for the usage for the OSP application or where customers needs the highest quality product.

- Premium SM and Premium Low Loss SM (LS) are available
- Typical IL of 0.05 for LS SM and 0.08 for Premium SM Ferrule
- Various option of boots are available to meet your need
- PC Type and APC Type available

LC STANDARD (2PC) Connector

LC

The Original LC designed connector gives the maximum value for cost. Using high quality components, this connector meets IEC, TIA/EIA and the general requirement of GR-326.

- Available with Pre-assembled 1pc style or in a Multi piece kit
- Typical IL of 0.12 for Standard ferrules
- Various options of boots are available to meet your demand

FEATURES COMPARISON CHART

For LC Premium and LC Standard	PREMIUM UNIBODY LOW LOSS SM FERRULE	PREMIUM UNIBODY SM FERRULE	STANDARD 2PC SM FERRULE
LC License Holder	○	○	○
IL Average Against Master (UPC)	0.05	0.08	0.12
IL Mean Value Random Mating (UPC)	0.07	0.12	0.25
Verizon FOC TPR-9409	○	○	
GR-326 Core Issue 4	○	○	△
IEC, TIA/EIA JIS Spec	○	○	○
IEC Random Mating Grade A*	○		
IEC Random Mating Grade B*	○	○	
IEC Random Mating Grade C*	○	○	○
ROHS Compliant	○	○	○
UL 94V-0	○	○	○
Ruggedized Unibody Structure	○	○	
Universal Body For Sim-Dup-BTW	○	○	
6 Position Tuning After Assembly (UPC)	○	○	○
LC MINI Boots	○	○	○
Standard Boots	○	○	○
TWAL Proof 900µm Boots	○	○	○
Pre-assembled 1pc Style	○	○	○
Free Floating Ferrule	○	○	○
Metal Back Post	○	○	○
Crimp Tool CRT-701**	○	○	○

○ Complies with GR-326 issue 4 TWAL test with 4 wavelength △ Good for general usage

Note: *IEC 61753-1 **CRT-705 to be used for 1.2mm Unibody

TECHNICAL SPECIFICATIONS

Unibody Premium and Standard 2pc Connector

PRODUCT SERIES	TYPE OF CONNECTOR	IL AGAINST MASTER (dB)		IL RANDOM MATING (dB)	
		Average IL	Maximum IL	Mean IL	Maximum IL
Unibody Premium Low Loss SM	931-159-1xx, 932-159-1xx	0.05	0.15	0.07	0.15 ^{*1}
Unibody Premium SM	931-153-1xx, 932-153-1xx	0.08	0.20	0.12	0.25 ^{*2}
Unibody Premium APC Low Loss	931-159-3xx, 932-159-3xx	0.07	0.15	0.09	0.20
Unibody Premium APC	931-153-3xx, 932-153-3xx	0.10	0.25	0.14	0.30
Unibody Premium MM	931-251-2xx, 932-251-2xx	0.10	0.20	-	-
Standard 2pc + Standard SM Ferrule	911-151-1xx, 912-151-1xx	0.12	0.30	0.25	0.50 ^{*3}
Standard MM	911-251-2xx, 912-251-2xx	0.15	0.30	-	-

Singlemode

Operating Temperature	-40°C to +75°C
Durability	<0.2dB typical change, 500 matings*

IEC Random mating test IEC 61753-1

1 - To meet IEC Random Mating Grade A ($\leq 0.07\text{dB}$ mean, $\leq 0.15\text{dB}$ max for >97% of sample.

Grade A Spec is not finalized, above is a recommendation.

2 - To meet IEC Random Mating Grade B ($\leq 0.12\text{dB}$ mean, $\leq 0.25\text{dB}$ max for >97% of sample

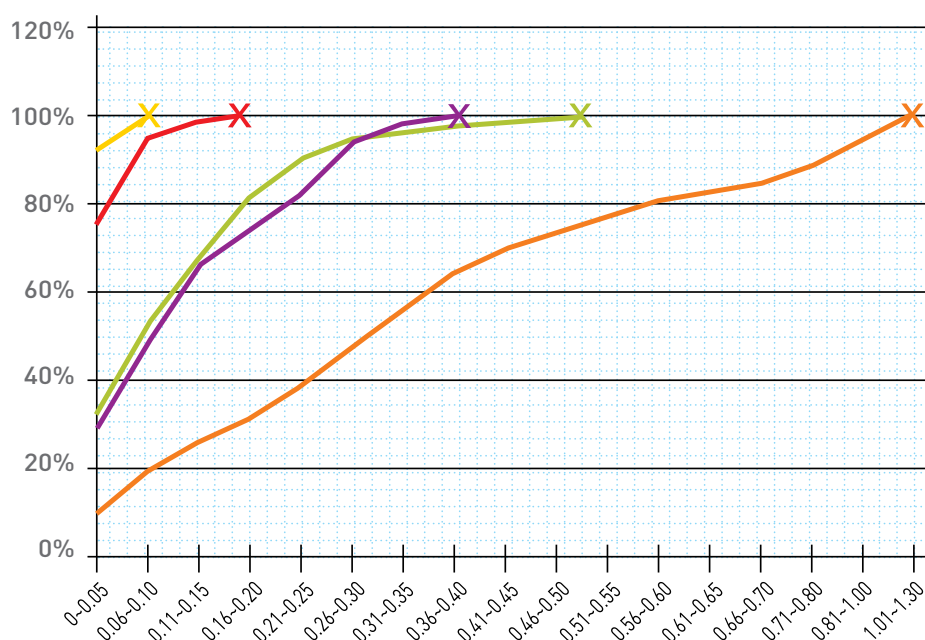
3 - To meet IEC Random Mating Grade C ($\leq 0.25\text{dB}$ mean, $\leq 0.50\text{dB}$ max for >97% of sample

Random Mating IL

SENKO has categorized its connectors to reflect the IEC Random Mating specified grades A*, B, and C, allowing the end-user to make an informed decision when selecting connectors, of how finished patchcords using SENKO connectors will perform.

Random mating Insertion Loss

- SENKO Low Loss
- SENKO Premium
- SENKO Standard
- High quality Competitor
- Low quality Competitor



931, 932 Series



900µm MINI Boot



2.0mm MINI Boot



3.0mm MINI Boot

LC PREMIUM UNIBODY

CONNECTOR	FERRULE TYPE	HOUSING	BOOT TYPE	BOOT COLOR
931 LC Unibody Simplex	153 SM: Premium 125µm	1 SM: Blue	B MINI Boot 900µm	1 White
932 LC Unibody Duplex	159 SM: Low Loss 125µm	2 MM: Beige	C MINI Boot 2.0mm	2 Blue
	251 MM: Premium 127µm	5 MM OM3: Aqua	D MINI Boot 3.0mm	3 Black
		6 MM OM4: Heather Violet	1 BTW Boot	4 Yellow
			4 2.0mm Round	5 Red
			5 2.0mm Boot Short	
			6 3.0mm Boot	
			7 Flex-Angle 2.0mm	
			9 Flex-Angle 3.0mm	

931 - 153 - 141 ORDER CODE example

Note: Other ferrule ID size are available
 SM 126µm SM 125.5µm

Features:

- SENKO's flagship highest quality LC connector Series
- Solid body robust design to improve mechanical strength.
- Designed to exceed the requirement of Verizon FOC TPR 9409 requirement
- Premium Super Low loss, typical IL against Master 0.05dB
- Premium Super Low Loss to meet IEC 61753-1 Grade A random mating requirement of Max 0.15dB
- Premium SM typical IL against Master 0.08dB Max
- Premium SM to meet IEC 61753-1 Grade B random mating requirement of Max 0.25dB
- 6 direction tuning feature to improve random mating IL
- Wide choice of boot types
- Crimp tool to be used CRT-701

931, 932 Series



900µm MINI Boot



2.0mm MINI Boot



3.0mm MINI Boot

LC PREMIUM UNIBODY

CONNECTOR	FERRULE TYPE	HOUSING	BOOT TYPE	BOOT COLOR
931 LC Unibody Simplex	153 SM: Premium 125µm	3 APC: Green	B MINI Boot 900µm	6 Green
932 LC Unibody Duplex	159 SM: Low Loss 125µm		C MINI Boot 2.0mm	
			D MINI Boot 3.0mm	
			1 BTW Boot	
			4 2.0mm Round	
			5 2.0mm Boot Short	
			6 3.0mm Boot	
			7 Flex-Angle 2.0mm	
			9 Flex-Angle 3.0mm	

931 - 153 - 316 ORDER CODE example

Note: Other ferrule ID size are available
 SM 126µm SM 125.5µm

Features:

- SENKO's flagship highest quality LC connector Series
- Solid body robust design to improve mechanical strength
- Designed to exceed the requirement of Verizon FOC TPR 9409 requirement
- Premium Super Low loss, typical IL against Master 0.07dB
- Premium SM typical IL against Master 0.10dB
- Wide choice of boot types
- Crimp tool to be used CRT-701