

LC TWO-PIECE CONNECTOR

REFERENCE VALUES - PENDING KANGHAO ENGINEERING CONFIRMATION

Engineering comparison data; final product ratings require a confirmed Kanghao specification.

Optical reference values

Parameter	Singlemode UPC	Multimode
Typical insertion loss (dB)	0.12	0.15
Maximum insertion loss (dB)	0.30	0.30
Typical return loss (dB)	≥ 55	≥ 25
Ferrule diameter figure (μm)	125.5	127

Measurement condition

The insertion-loss figures use a master-grade jumper to low-loss random mating test. Figures are reference values, not production acceptance criteria.

Mechanical and environmental reference

Parameter	Reference
Durability	Typical change < 0.2 dB; 500 mating cycles
Fiber count	Simplex / duplex; 1 or 2 fibers
Cable suitability	900 μm to 3 mm
Ferrule material	Zirconia
Operating temperature	-40 to $+75$ deg C
Humidity resistance	95%
RoHS / REACH	Listed as compliant in the reference; Kanghao validation required
Interface standard	IEC 61754-20

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Mechanical dimension callouts - mm

Feature / callout	Reference
Front-view widths	4.3 +/-0.1; 3.3 +0.05/-0.10; 2.3 +/-0.1
Front-view envelope	10.43 and 5.58
Side-view body / height	8.6 +/-0.1; 5.65
Latch callout	2 x 12.2 minimum
Overall / rear extension	(42) and (8) reference dimensions
Illustrated termination	2.0 mm mini boot; UPC and APC views

Configuration choices

Category	Reference choices
Assembly	Preassembled or kit; simplex or duplex
Bore choices (um)	SM 125.5 standard; alternatives 126 and 125; MM 127 standard; alternatives 230 and 144
Housing colors	SM blue; MM beige; OM3 aqua; OM4 heather violet
Boot formats	Mini 900 um / 2.0 mm / 3.0 mm; original 2.0 mm; 3.0 mm boot
Boot colors	White / blue / black / yellow / red

Cleaning and inspection context

1.25 mm cleaning tools, sticks and cassettes are referenced. Inspection equipment context includes 12 fibers in 2.6 seconds, 24 in 4.5 seconds, 0.5 um defect detection and tips for MPO / CS / SN / LC. These are equipment reference figures, not connector performance ratings.

Application context

Telecommunications, data centers, LAN, FTTH, enterprise and industrial links; medical, aerospace and broadcast contexts require application-specific validation.