



Optec's test reference leads are terminated with optimized end-face geometry and enhanced optical performance to ensure accurate physical contact of fiber connectors during test. The connectors are manufactured with precision mounting and polishing techniques which ensure excellent mating characteristics and repeatability.

All our test reference leads are made to conform IEC, EIA/TIA or Telcordia performance requirements. Available with different connector choices include MTP/MPO, FC, SC, LC, & ST high performance connector to suit majority of testing applications.

Features and Applications

Optimized geometry control over fiber endface

Enhance testing efficiency by improved accuracy and reliability of measurement

Conforms and exceeds industry standards

100% Factory tested with stringent controls processes to comply Telcordia GR-326-CORE with low insertion loss

Suitable for use with majority of testing applications

For optical network testing, termination house testing, test laboratory, instrumentals testing

Available in singlemode & multimode with choices of different structures

Satisfies client's needs in different testing requirements

Optical Specifications

Single-fiber Reference End

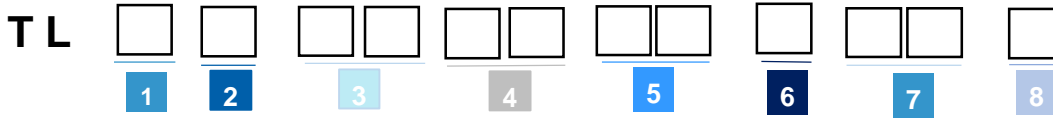
Parameter		UPC Polish Spec		Unit
		Min	Max	
IL	1310/1550 nm	0	0.1	dB
RL	1310/1550 nm	N/A	-55.0	dB
Radius of Curvature		10	25	mm
Fiber Height (Spherical Fit)		-50.0	+50	nm
Apex Offset		0.00	35.0	um
Bearing (Fiber offset)		$\pm 45^\circ$		deg.
Fiber core to ferrule concentricity		≤ 0.6		Um
Angle		-0.200	0.200	deg.
Key		-0.200	0.200	Deg.
Fiber Roughness (Rq)		0	50	nm
Fiber Roughness (Ra)		0	50	nm
Ferrule Roughness (Rq)		0	50	nm
Ferrule Roughness (Ra)		0	50	nm
Diameter		125.0	130.0	um

MTP/MPO Reference End

Parameter	Singlemode Requirement
RX = X Radius of Curvature	≥ 2000 mm
RY = Y Radius of Curvature	≥ 50 mm
GX = X Endface Angle (also Y for flat polished connectors)	$0.15^\circ \leq GX \leq 0.15^\circ$
GY = Y Endface Angle	$7.85^\circ \leq GX \leq 8.15^\circ$
H = Fiber Protrusion Height	$1200 \text{ nm} \leq H \leq 2200 \text{ nm}$
HA = Fiber Protrusion Differential Total	≤ 250 nm
HB = Fiber Protrusion Differential Adjacent	≤ 150 nm
CD = Core Dip	N/A
Maximum Co-planarity	N/A
Flatness Deviation	N/A
Minimum Valid Pixels Ration	N/A

The above optical specification are for reference only, it can be fully customized with customer specified requirement. Please contact us for more information now. sales@optec.com.hk

Ordering Information



1 Reference End

F = FC
S = SC
L = LC
ST = ST
M = MTP-Male
P = MPO-Male
See notes (1) & (2)

2 Equipment End

F = FC
S = SC
L = LC
ST = ST
M = MTP-Male
F = MTP-Female
P = MPO-Male
E = MPO-Female
See notes (1) & (2)

3 Fiber Type

SM = OS2 Singlemode
M1 = OM1 (62.5/125)
M2 = OM2 (50/125)
M3 = OM3 (50/125)
M4 = OM4 (50/125)
See notes (1) & (2)

4 Cable Type

SX = Simplex
12 = 12-Fiber (for MTP or MPO)
24 = 24-Fiber (for MTP or MPO)

5 Jacket Material

OR = Riser OFNR
LZ = Low Smoke Zero Halogen

6 Cable Color

Y = Yellow (for Singlemode)
O = Orange (for OM1, OM2)
A = Aqua (for OM3)
V = Violet (for OM4)
See notes (3)

7 Overall Cable Length

XX = 01~99
(please specify)

8 Unit of Measure

F = Feet
M = Meter

NOTES

- (1) If Singlemode is chosen, MTP/MPO endface polishing will be APC
- (2) If Multimode is chosen, MTP/MPO endface polishing will be Flat
- (3) Cables of other structures are available, please contact our sales team for more information

Assembly Structure Illustration

Example:

Ordering code : TL-M-F-SM-12-LZ-Y-05-M

Item Description: Test Reference Lead MTP-Male to MTP-Female, Singlemode, 12-Fiber, LSZH, Yellow, 5 Meters

