

Jumpers (Patch Cords)

Fiber Optic Cable Assemblies

ARIA Technologies offers a complete line of simplex and duplex jumpers in singlemode and multimode configurations with Corning and Prysmian/Draka fiber that is manufactured to Telcordia GR326-CORE Issue 4 specifications.

ARIA jumpers meet or exceed all industry standards for singlemode and multimode fiber performance.



High Density Connectors Available

- SC and LC uniboot connectors reduce fiber congestion
- LC connectors with pull tabs ease connector insertion and removal
- LC uniboot polarity switchable connectors reduce fiber congestion and provide polarity flexibility

Endface Clarity, Insertion & Return Loss Testing

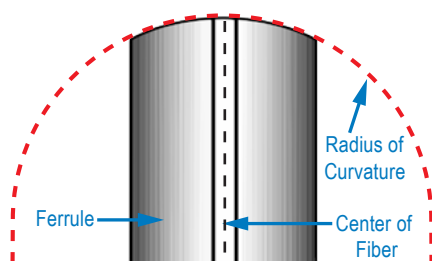
Endface Clarity is the cleanliness and smoothness of the connector endface

Insertion Loss refers to the amount of optical power lost through a jumper

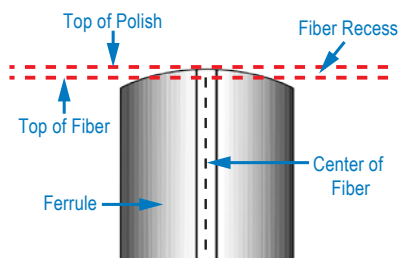
Return Loss refers to the optical power reflected at the connector toward the source



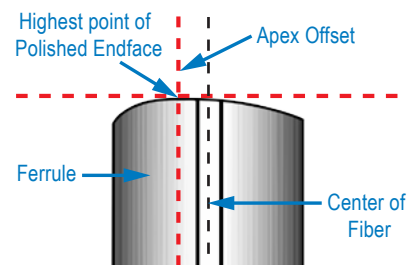
Endface Geometry Testing



Radius of curvature is the roundness of the ferrule's endface



Fiber height is the height or depth that the fiber core protrudes or undercuts the ferrule endface



Apex offset is the distance between the highest point of the polished ferrule's endface and the fiber's axis

Testing Requirements

Parameter	Value
Endface Clarity	No scratches, pits, dirt, or oil at 400x magnification
Insertion Loss (dB)	0.30 Maximum, <0.15 Typical
MPO Insertion Loss (dB)	0.75 (Singlemode), 0.60 (Multimode), 0.35 (Elite)
Return Loss (dB)	<-55 (UPC Connectors), <-65 (APC)
Radius of Curvature (mm)	7 to 25 (UPC and MM Connectors), 5 to 12 (APC)
Fiber Height (nm)	±50 (UPC and MM Connectors), ±100 (APC)
Apex Offset (µm)	<50

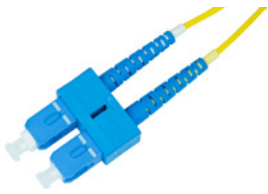
PASS



Jumpers (Patch Cords)

Fiber Optic Cable Assemblies

Connector Examples



SC/UPC Duplex



LC/UPC Duplex with 19mm Boot



LC Duplex Multimode OM3



LC/UPC Simplex with 50° angled boot



ST Duplex Multimode OM2



SC/UPC Duplex Uniboot



LC/UPC Simplex with Flat Pull Tab



Uniboot LC Polarity Switchable with Pull Tab

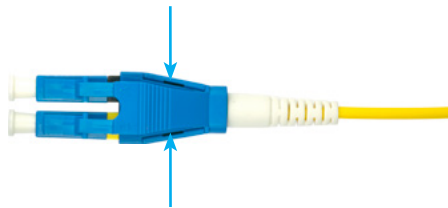


LC/UPC Uniboot with Round Pull Tab



Uniboot LC Polarity Switchable

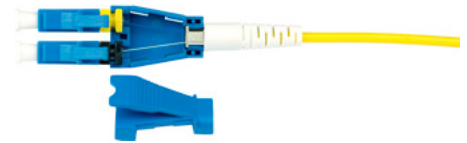
Switching the Polarity on the Uniboot LC Polarity Switchable Connector



Locate the areas shown above



Insert a small flathead screwdriver into the locations shown



Remove the connector lid, switch the connectors, and replace the lid

Switching the Polarity on the Uniboot LC Polarity Switchable Connector with Pull Tab



Unlock Housing



Remove Housing



Rotate Clips 180 Degrees



Rotate Housing 180 Degrees



Install Housing



Lock housing

Part Number



1 Cable Size
 16 = 1.6 mm
 20 = 2.0 mm

Note: 900µm and 1.2mm are available upon request

2 Cable Construction
 SX = Simplex
 DX = Duplex (Zipcord)
 2R = 2 Fiber Round*

*Uniboot Connector Types Only

3 Jacket Rating
 R = Riser (OFNR)
 P = Plenum (OFNP)
 L = Low Smoke Zero Halogen (LSZH)

4 Fiber Type
 Singlemode
 S = SMF-28e+
 B = SMF Bend Insensitive G.657.A1
 Multimode
 1 = 62.5/125µm OM1
 2 = 50/125µm OM2
 3 = 50/125µm OM3
 4 = 50/125µm OM4

5 Jacket Color
 YL = Yellow
 BL = Blue
 OR = Orange
 AQ = Aqua
 VL = Erika Violet
 GR = Green
 RD = Red
 WT = White

Note: Standard colors are as follows:
 Singlemode: Yellow
 OM1 & OM2: Orange
 OM3 & OM4: Aqua

6 Connector Type End 1
 Singlemode
 SCU = SC/UPC
 USC = SC/UPC Uniboot (2 Fiber Round Only)
 SCA = SC/APC
 LCU = LC/UPC*
 LCA = LC/APC*
 FCU = FC/UPC
 FCA = FC/APC
 STU = ST/UPC
 E2A = E2000 APC
 Multimode
 SCM = SC
 LCM = LC*
 FCM = FC
 STM = ST
 000 = No Connector

7 Connector Type End 2
 See Options in Connector Type End 1

***Add the following characters for these LC connector options:**
 S = 19mm boot (29mm is standard)
 A = 50° Boot (Simplex/Duplex Only)
 2 = 20mm Long Round Pull Tab
 4 = 40mm Long Round Pull Tab
 F = Flat pull tab
 T = Uniboot Polarity Switchable with Pull Tab (2 Fiber Round Only)
 P = Uniboot Polarity Switchable (2 Fiber Round Only)

8 Duplex Clips
 Use NC for Jumpers with Simplex Cable Construction, 2 Fiber Round Cable Construction, FC Connectors, ST Connectors, or E2000 Connectors.
 NC = No Duplex Clips
 DX = Duplex Clips

9 Length
 XXXF = Length in Feet
 XXXM = Length in Meters