

### Jumpers (Patch Cords)

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 and Return Loss Testing

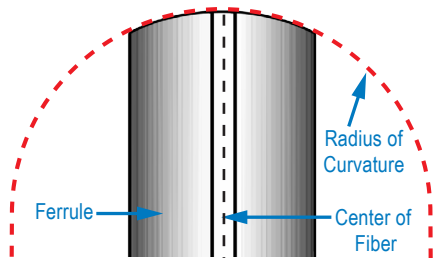
**Endface Clarity** is the cleanliness and smoothness of the connector endface

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

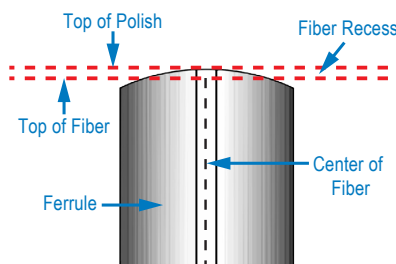
**Return Loss** refers to the optical power reflected at the connector toward the source



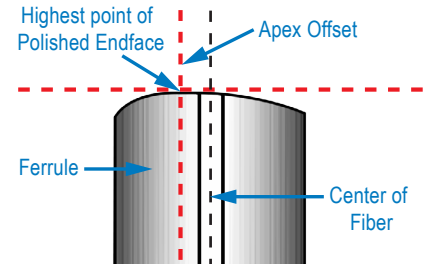
### Endface Geometry Testing



**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



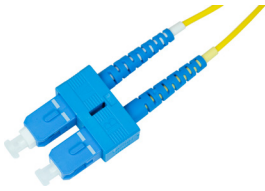
**Apex offset** is the distance between the highest point of the polished ferrule's endface and the fiber's axis

### Testing Requirements

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



### Jumpers (Patch Cords) Connector Examples



SC/UPC Duplex



LC/UPC Duplex with  
19mm Boot



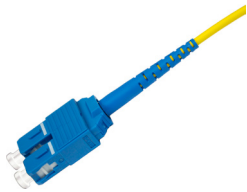
LC Duplex Multimode  
OM3



LC/UPC Simplex with  
50° angled boot



ST Duplex Multimode  
OM2



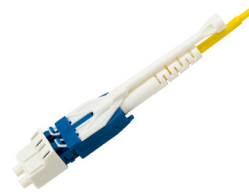
SC/UPC Duplex Uniboot



LC/UPC Simplex with  
Flat Pull Tab



Uniboot LC Polarity  
Switchable with Pull Tab

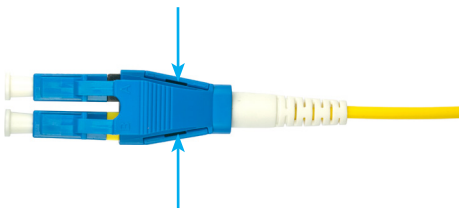


LC/UPC Uniboot with  
Round Pull Tab

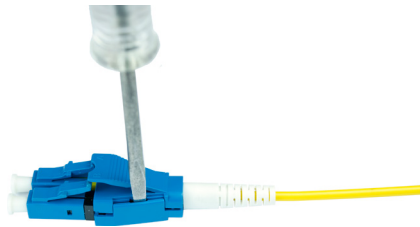


Uniboot LC Polarity  
Switchable

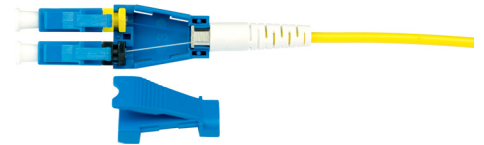
### Switching the Polarity on the Uniboot LC Polarity Switchable Connector



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

### Jumpers (Patch Cords)

#### 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

**3** Jacket Rating  
R = Riser (OFNR)  
P = Plenum (OFNP)  
L = Low Smoke Zero Halogen (LSZH)  
D = Dual Rated (OFNR & 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  
Leave Blank for Standard Color  
BL = Blue  
GR = Green  
RD = Red  
WT = White  
VL = Erika Violet

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 (Duplex Only)  
SCA = SC/APC  
LCU = LC/UPC\*  
LCA = LC/APC\*  
FCU = FC/UPC  
FCA = FC/APC  
STU = ST/UPC  
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  
2 = 20mm Long Round Pull Tab  
4 = 40mm Long Round Pull Tab  
F = Flat pull tab  
T = Uniboot Polarity Switchable with Pull Tab (Duplex Only)  
P = Uniboot Polarity Switchable (Duplex Only)

**8** Duplex Clips  
Leave Blank for Jumpers with Simplex Cable Construction, Uniboot Connectors, FC or ST Connectors, and for Duplex Cable Construction using SC or LC Connectors with Clips  
NC = No Duplex Clips

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