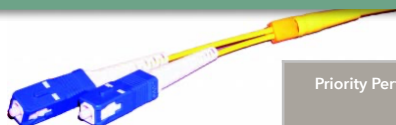


## Singlemode Fiber Assembly Specification

The search for the highest quality fiber optic assembly ends at Priority!



|                     |                                       | Priority Performance Series                                     | Priority Platinum Series | Description                                                                            | Telcordia 326 Issue 3 Comparison |
|---------------------|---------------------------------------|-----------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------|----------------------------------|
| Optical Performance | Insertion Loss                        | 0.25 dB                                                         | 0.2 dB                   | Insertion loss limits transmission distance                                            | .25 dB                           |
|                     | Return Loss                           | -55 dB                                                          | -55 dB                   | Return loss can interfere with laser performance increasing noise                      | -55 dB                           |
| Geometry            | Radius                                | 7-25mm                                                          | 7-25mm                   | Ensures glass to glass contact at the ferrule endface                                  | 7-25mm                           |
|                     | Apex Offset                           | 0-50µm                                                          | 0-50µm                   | Ensures proper alignment and good glass to glass contact                               | 0-50µm                           |
|                     | Spherical Height                      | -125nm to 50nm                                                  | -50nm to 50nm            | Excess undercut may inhibit glass contact, excessive protrusion may cause fiber damage | -125nm to 50nm                   |
|                     | Fiber Roughness                       | 0-25nm                                                          | 0-25nm                   | Excessive roughness prevent contact                                                    | not specified                    |
|                     | Ferrule Roughness                     | 0-50nm                                                          | 0-50nm                   | Excessive roughness prevent contact                                                    | not specified                    |
|                     | Testing                               | batch tested                                                    | 100% tested              | Non-contact interferometer testing                                                     | not specified                    |
| Visual Criteria     | Core of Fiber                         | no visible defects                                              | no visible defects       | Defects are possible sources of contamination and fracture over temp. and humidity     | not specified                    |
|                     | Cladding                              | visible defects allowed if >10µm from core. 80% free of defects | no visible defects       | Defects are possible sources of contamination and fracture over temp. and humidity     | not specified                    |
|                     | Ferrule Contact Zone (225µm diameter) | 10nm <sup>2</sup>                                               | no visible defects       | Excessive Defects may prevent contact                                                  | not specified                    |
| Epoxy               | Temp. Coeff. (Tg)                     | 105                                                             | 120                      | Reduces fiber creep over temperature                                                   | 105                              |
|                     | Curing Method                         | standard                                                        | outgassed                | Outgassing eliminates epoxy gaps and resultant local stresses                          | not specified                    |
|                     | Visual                                | light ring acceptable                                           | no visible ring          | Excess epoxy can collect contaminants                                                  | not specified                    |
| Connector           | Telcordia Compliant                   | Yes                                                             | Yes                      | GR-326-CORE Issue 3                                                                    |                                  |