

## **Fiber Optic Cable Specifications and Source CSP**

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CSP, Inc. can provide you with reliable fiber assemblies certified to function properly with DigiBoard equipment.

Fiber is the best solution for transmitting large amounts of data over long distances at high speeds without interference or lost data caused by outside factors such as weather, radio frequency signals or other electrical noise.

The ST connector provides these features as well as strong performance and reliability characteristics. The ST connector also helps maintain close tolerances when mating connectors in an adapter. The ST connector is easily recognizable because of its bayonet style attachment/detachment mechanism.

The ST also offers superior loss characteristics because the ferrules are made of stainless steel or ceramic and the connector has a spring-loaded mating system that exerts consistent pressure on the ferrule tip when inserted in an active device or an adjoining fiber. These impressive characteristics have allowed the ST connector to become the most widely used connector in Local Area Networks (LANs).

CSP fiber optic assemblies are made at the length you specify with or without an optional pulling eye to meet your individual requirements.

CSP assemblies are made with FDDI grade fiber and tested to meet EIA/FOTP specifications. CSP complies with the requirements of the 1990 National Electrical Code (NEC) for Optical Fiber Cables - Article 770.

### **Specifications:**

Fiber Type.....Glass Graded Index  
Core Diameter.....62.5 um  
Cladding Diameter.....125 um  
Tight Buffer Diameter.....900 um  
Numerical Aperture.....>.27  
Connector.....ST Stainless  
Cable Type.....Duplex (Zipcord)  
Orange Jacket

### **Cable Parameters (OFNR, OFNP)**

Manufacturer Montrose Montrose  
Part Number FBB-022R-2 FBB-022P-2  
Weight 15 kg/km 20 kg/km  
Diameter 3.0x6.5 mm 3.0x6.5 mm  
Jacket PVC Plenum rated

Operating Load 450N 450N  
Installation Load 700N 700N  
Operating Bend Radius 25 mm 25 mm  
Installation Bend Radius 4 mm 4 mm  
Impact Resistance 20 impacts w/1.0N-m(EIA-425-25)  
Crush Resistance 500 N/cm 500 N/cm  
Flexing 5000 5000  
Operating Temperature -40 C to 85 C -40 C to 85 C  
Storage Temperature -55 C to 85 C -55 C to 85 C  
Flame Retard UL-1666 OFNR UL-910 OFNP

## Connector

Type ST  
Ferrule Material Stainless Steel  
Termination Break Strength 30 lbs.  
Connection Loss 0.6 Typical

| Wave Length | 850 nm          | 1300 nm         |
|-------------|-----------------|-----------------|
| Attenuation | 3.25 db/km max. | 1.25 db/km max. |
| Bandwidth   | 160 MHz/km      | 500 MHz/km      |

## Part Numbers

| Meters | Feet   | PVC Part #  | Plenum Part # |
|--------|--------|-------------|---------------|
| 1      | 3.28   | DBI62140001 | DBI62140001-P |
| 10     | 32.8   | DBI62140010 | DBI62140010-P |
| 50     | 164.04 | DBI62140050 | DBI62140050-P |
| 100    | 328.08 | DBI62140100 | DBI62140100-P |
| 250    | 820.2  | DBI62140250 | DBI62140250-P |
| 500    | 1640.4 | DBI62140500 | DBI62140500-P |
| 750    | 2460.6 | DBI62140750 | DBI62140750-P |
| 1000   | 3280.8 | DBI62141000 | DBI62141000-P |

Per customer order DBI6214MMMM DBI6214MMMM-P  
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