

## Features

- Simplex or Duplex patch cord cables
- Single mode (SM 9/125 μm)
- Multimode (MM 50/125 or 62.5/125 μm)
- LC, SC, ST, FC, MTP/MPO with UPC or APC terminations
- φ 0.9 mm, 1.8 mm, 2.0 mm, or 3.0 mm cable jacket
- Superior Reliability and Durability
- Corning, Draka, and OFS fibers compliant with Telcordia GR-326 specifications.

**\*\* Contact us for special configurations**

Simplex LC



Simplex SC



Simplex FC



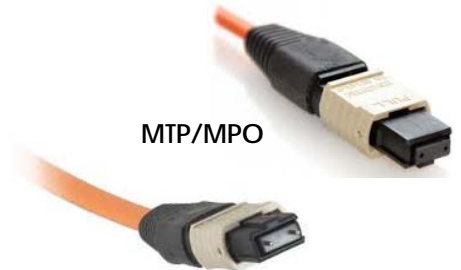
Duplex SC



Duplex ST



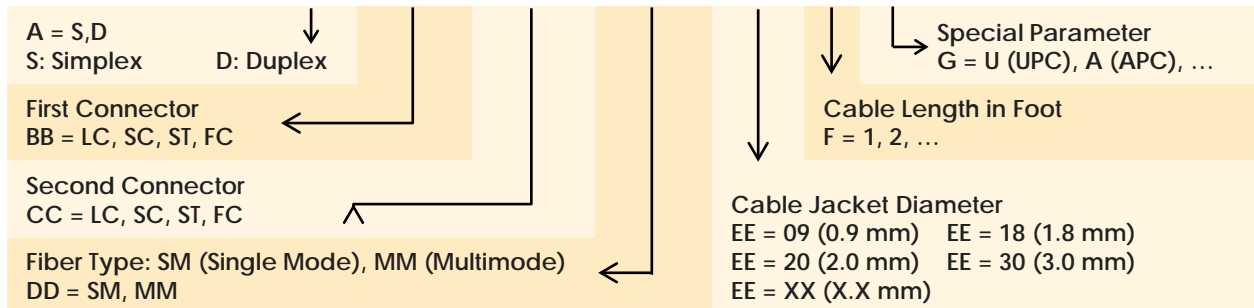
Duplex LC



MTP/MPO

## Part Number Configuration

A - B B C C - D D E E F - G



### EXAMPLES:

S-SCSC-SM091, Simplex, SC to SC, Single Mode, 0.9 mm jacket, 1 foot long patch fiber cable.

## Connector Specifications

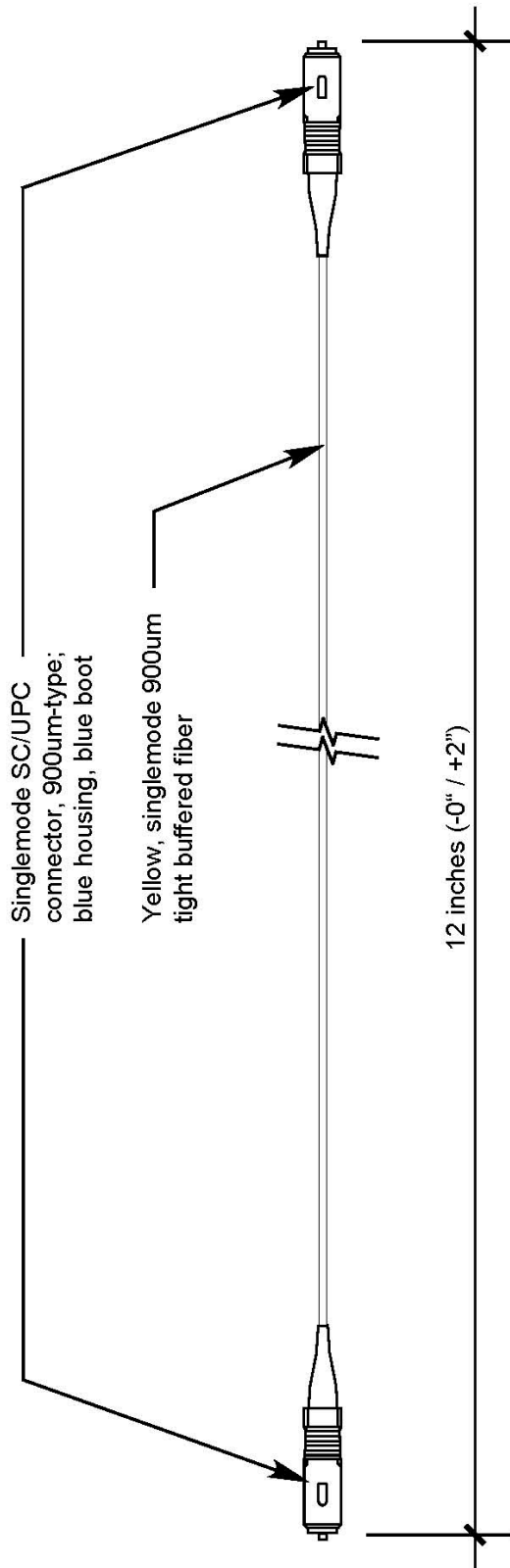
| Connector Type                       | Insertion Loss (dB)<br>Max./Typ.  | Return Loss (dB)<br>Max./Typ.          | Durability (dB)<br>1000 Matings |
|--------------------------------------|-----------------------------------|--|---------------------------------|
| FC, LC, MINI LC, ST,<br>SC, UPC, MPO | 0.50/0.25                         | 55/59                                  | 0.2                             |
| FC, LC, MINI LC, ST,<br>SC, UPC, MPO | 0.50/0.25                         | 65/70                                  | 0.2                             |
| Termination Type                     | Tensile Strength<br>50 Lbs (220N) | Temp Cycling<br>-20 to 80°C, 40 Cycles | Material<br>Ferrule/Housing     |
| UPC                                  | 0.2 dB                            | 0.2 dB                                 | Ceramic/Metal                   |
| APC                                  | 0.2 dB                            | 0.2 dB                                 | Ceramic/Metal                   |

## Cable Specifications

| Fiber Type                | Wavelength<br>(nm) | Max. Attenuation<br>(dB/km) | LED Bandwidth<br>(MHz/km) | Modal Bandwidth<br>(MHz/km) |
|---------------------------|--------------------|-----------------------------|---------------------------|-----------------------------|
| MM 62.5/125 $\mu\text{m}$ | 850/1310           | 3.5/1.0                     | 200/500                   | 220                         |
| MM 50/125 $\mu\text{m}$   | 850/1310           | 3.5/1.5                     | 500/500                   | 510                         |
| OM3 50/125 $\mu\text{m}$  | 850/1310           | 3.0/1.5                     | 1500/500                  | 2000                        |
| SM 9/125 $\mu\text{m}$    | 1310/1550          | 0.35/0.25                   | N.A.                      | N.A.                        |

## Fiber Link Performance

| 1.25 Gb/s                       |                    |                 | 10 Gb/s                         |                    |                 |
|---------------------------------|--------------------|-----------------|---------------------------------|--------------------|-----------------|
| Fiber Type                      | Wavelength<br>(nm) | Distance<br>(m) | Fiber Type                      | Wavelength<br>(nm) | Distance<br>(m) |
| 62.5 $\mu\text{m}$ , 200 MHz*km | 850/1310           | 275/500         | 62.5 $\mu\text{m}$ , 200 MHz*km | 850/1310           | 33              |
| 50 $\mu\text{m}$ , 500 MHz*km   | 850/1310           | 550/550         | 50 $\mu\text{m}$ , 500 MHz*km   | 850/1310           | 82              |
| 50 $\mu\text{m}$ , 2000 MHz*km  | 850/1310           | 1000/600        | 50 $\mu\text{m}$ , 2000 MHz*km  | 850/1310           | 300             |
| 9 $\mu\text{m}$ , 2000 MHz*km   | 1310/1550          | > 2000          | 9 $\mu\text{m}$ , 2000 MHz*km   | 1310/1550          | > 1000          |



### Singlemode SC/UPC to SC/UPC Fiberoptic Cable Assembly

#### Ordering Information

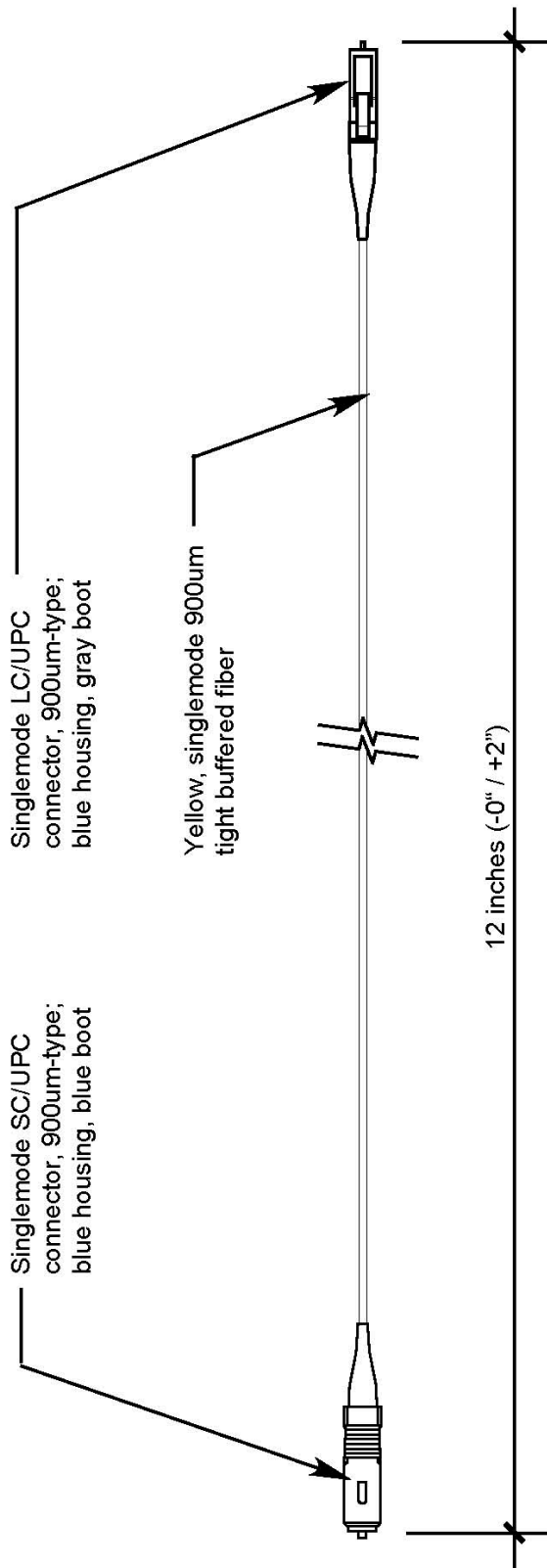
Part Number: S-SCSC-SM091

#### Description:

Simplex SM (9/125 um) patch cord, UPC, 900 um, 12" long cable, SC/SC

#### NOTES:

- 1) Test all (100%) connectors for Insertion Loss (I.L.) and Return Loss (R.L.)  
I.L. to be 0.25dB or better measured with a 1550 nm source  
R.L. to be -55dB or better measured with a 1550 nm source
- 2) Operating temperature range: -25 C to 75 C.
- 3) Use two-part heat cured epoxy to terminate all connectors



### Singlemode SC/UPC to LC/UPC Fiberoptic Cable Assembly

#### Ordering Information

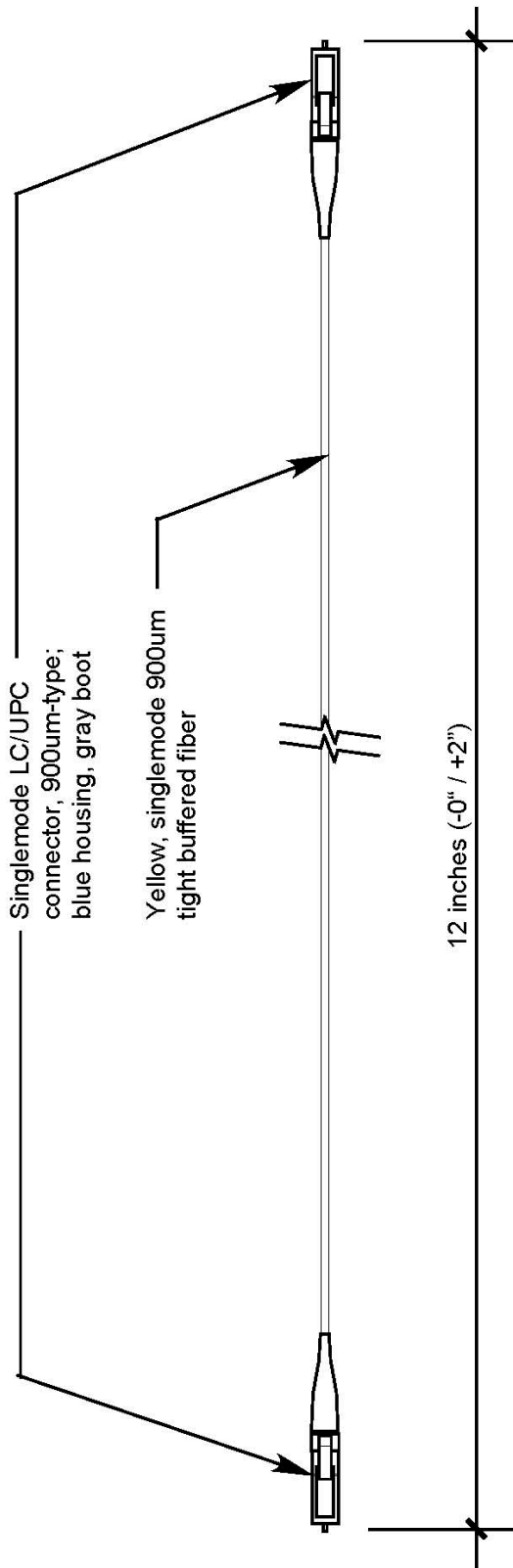
Part Number: S-SCLC-SM091C

#### Description:

Simplex SM (9/125 um) patch cord, 900 um, 12" long cable, SC/LC

#### NOTES:

- 1) Test all (100%) connectors for Insertion Loss (I.L.) and Return Loss (R.L.)  
I.L. to be 0.25dB or better measured with a 1550 nm source  
R.L. to be -55dB or better measured with a 1550 nm source
- 2) Operating temperature range: -25 C to 75 C.
- 3) Use two-part heat cured epoxy to terminate all connectors



Singlemode LC/UPC to LC/UPC Fiberoptic Cable Assembly

**Ordering Information**

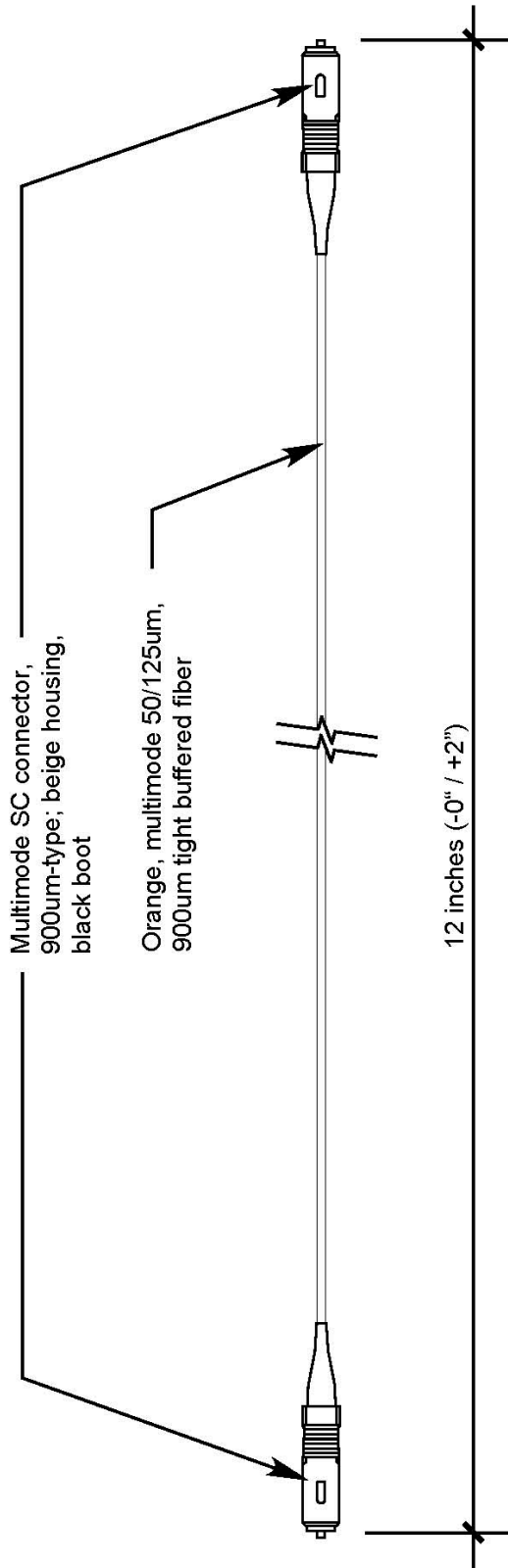
**Part Number:** S-LCLC-SM091

**Description:**

Simplex SM (9/125 um) patch cord, UPC, 900 um, 12" long cable, LC/LC

**NOTES:**

- 1) Test all (100%) connectors for Insertion Loss (I.L.) and Return Loss (R.L.)  
I.L. to be 0.25dB or better measured with a 1550 nm source  
R.L. to be -55dB or better measured with a 1550 nm source
- 2) Operating temperature range: -25 C to 75 C.
- 3) Use two-part heat cured epoxy to terminate all connectors



Multimode SC to SC Fiberoptic Cable Assembly

**Ordering Information**

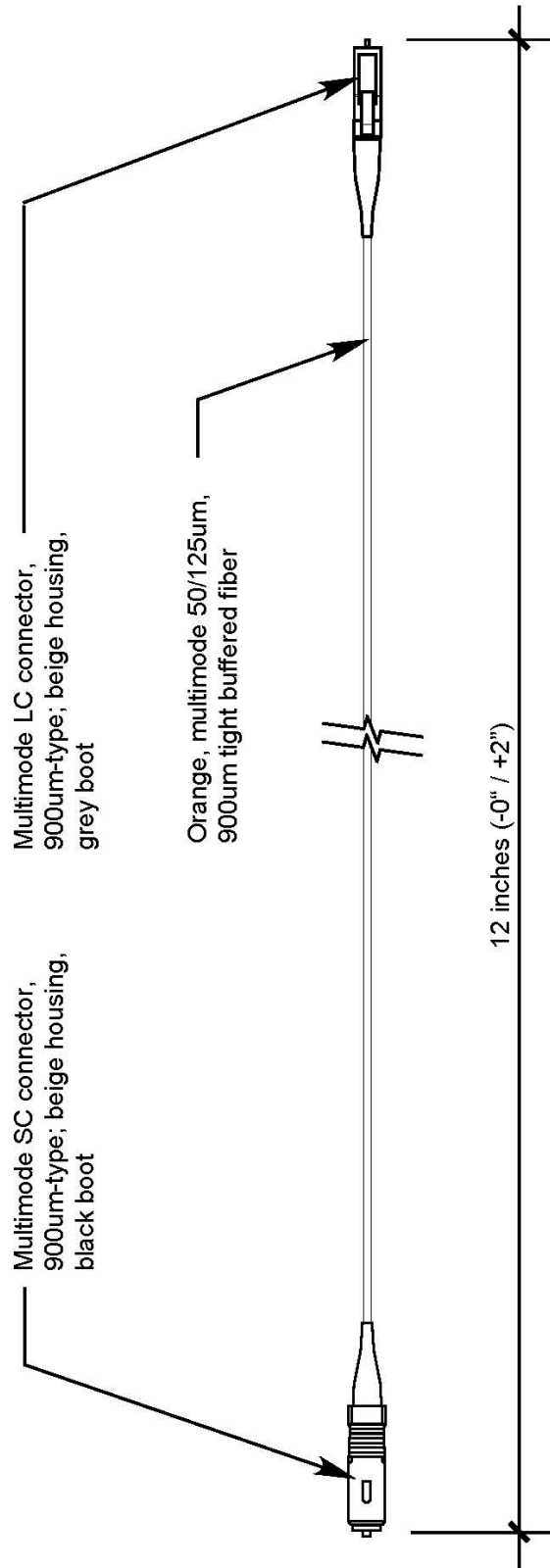
**Part Number:** S-SCSC-MM091

**Description:**

Simplex MM (50/125 um) patch cord, UPC, 900 um, 12" long cable, SC/SC

**NOTES:**

- 1) Test all (100%) connectors for Insertion Loss (I.L.)  
I.L. to be 0.35dB or better measured with a 850 nm source
- 2) Operating temperature range: -25 C to 75 C.
- 3) Use two-part heat cured epoxy to terminate all connectors



Multimode SC to LC Fiberoptic Cable Assembly

**Ordering Information**

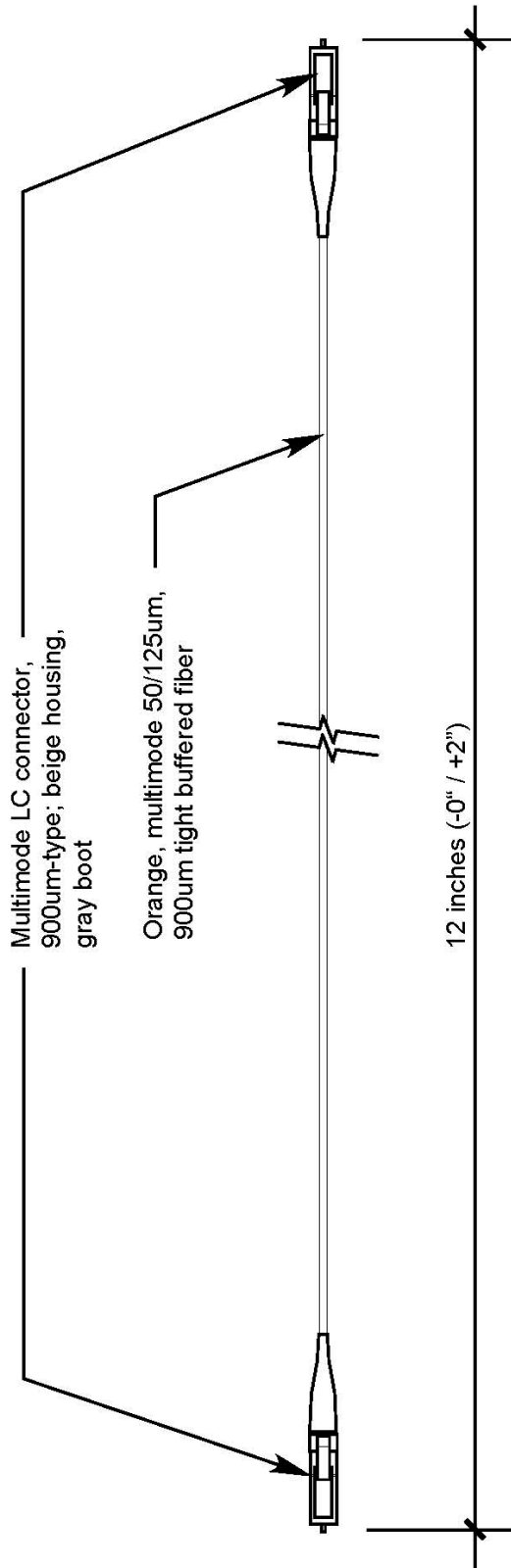
**Part Number:** S-SCLC-MM091

**Description:**

Simplex MM (50/125 um) patch cord,  
UPC, 900 um, 12" long cable, SC/LC

**NOTES:**

- 1) Test all (100%) connectors for Insertion Loss (I.L.)  
I.L. to be 0.35dB or better measured with a 850 nm source
- 2) Operating temperature range: -25 C to 75 C.
- 3) Use two-part heat cured epoxy to terminate all connectors



Multimode LC to LC Fiber optic Cable Assembly

**Ordering Information**

**Part Number:** S-LCLC-MM091

**Description:**

Simplex SM (9/125 um) patch cord, UPC, 900 um, 12" long cable, LC/LC

**NOTES:**

- 1) Test all (100%) connectors for Insertion Loss (I.L.)  
I.L. to be 0.35dB or better measured with a 850 nm source
- 2) Operating temperature range: -25 C to 75 C.
- 3) Use two-part heat cured epoxy to terminate all connectors