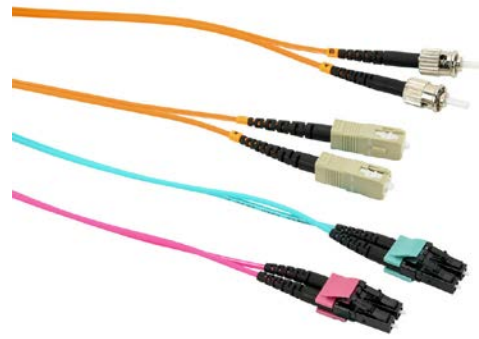


# AchieVe™ Fiber Optic Patch Cables

## Features

- Metal-free indoor cable
- Completely dry design
- High flexibility and light weight
- Halogen-free and non-corrosive combustion gases
- Low fire load for high safety requirements
- Jacket material complies with UL 94V-0

**RoHS**

**RoHS Compliant**


## Fiber Optic Patch Cables

| Part Number                      | Description                                             | Color  | Connectors             | Length      | Price    |
|----------------------------------|---------------------------------------------------------|--------|------------------------|-------------|----------|
| <a href="#">FOM-OM1-LCLC-001</a> | AchieVe OM1 multi-mode fiber optic Ethernet patch cable | Orange | LC duplex to LC duplex | 3.2' [1m]   | \$-64l1: |
| <a href="#">FOM-OM1-LCLC-003</a> |                                                         |        |                        | 9.8' [3m]   | \$-64l2: |
| <a href="#">FOM-OM1-LCLC-005</a> |                                                         |        |                        | 16.4' [5m]  | \$-64l3: |
| <a href="#">FOM-OM1-LCLC-010</a> |                                                         |        |                        | 32.8' [10m] | \$-64l4: |
| <a href="#">FOM-OM1-LCST-001</a> |                                                         |        | LC duplex to ST duplex | 3.2' [1m]   | \$-64lp: |
| <a href="#">FOM-OM1-LCST-003</a> |                                                         |        |                        | 9.8' [3m]   | \$-64lu: |
| <a href="#">FOM-OM1-LCST-005</a> |                                                         |        |                        | 16.4' [5m]  | \$-64l7: |
| <a href="#">FOM-OM1-LCST-010</a> |                                                         |        |                        | 32.8' [10m] | \$-64l8: |
| <a href="#">FOM-OM1-SCLC-001</a> |                                                         |        | SC duplex to LC duplex | 3.2' [1m]   | \$-64le: |
| <a href="#">FOM-OM1-SCLC-003</a> |                                                         |        |                        | 9.8' [3m]   | \$-64lf: |
| <a href="#">FOM-OM1-SCLC-005</a> |                                                         |        |                        | 16.4' [5m]  | \$-64lg: |
| <a href="#">FOM-OM1-SCLC-010</a> |                                                         |        |                        | 32.8' [10m] | \$-64lh: |
| <a href="#">FOM-OM1-SCSC-001</a> |                                                         |        | SC duplex to SC duplex | 3.2' [1m]   | \$-64lo: |
| <a href="#">FOM-OM1-SCSC-003</a> |                                                         |        |                        | 9.8' [3m]   | \$-64lq: |
| <a href="#">FOM-OM1-STST-001</a> |                                                         |        | ST duplex to ST duplex | 3.2' [1m]   | \$-64ls: |
| <a href="#">FOM-OM1-STST-003</a> |                                                         |        |                        | 9.8' [3m]   | \$-64lt: |
| <a href="#">FOM-OM2-SCLC-001</a> | AchieVe OM2 multi-mode fiber optic Ethernet patch cable |        | SC duplex to LC duplex | 3.2' [1m]   | \$-64l9: |
| <a href="#">FOM-OM2-SCLC-003</a> |                                                         |        |                        | 9.8' [3m]   | \$-64la: |
| <a href="#">FOM-OM2-SCLC-005</a> |                                                         |        |                        | 16.4' [5m]  | \$-64lb: |
| <a href="#">FOM-OM2-SCLC-010</a> |                                                         |        |                        | 32.8' [10m] | \$-64ld: |
| <a href="#">FOM-OM3-LCLC-001</a> | AchieVe OM3 multi-mode fiber optic Ethernet patch cable | Aqua   | LC duplex to LC duplex | 3.2' [1m]   | \$-64lj: |
| <a href="#">FOM-OM3-LCLC-003</a> |                                                         |        |                        | 9.8' [3m]   | \$-64lk: |
| <a href="#">FOM-OM3-LCLC-005</a> |                                                         |        |                        | 16.4' [5m]  | \$-64ll: |
| <a href="#">FOM-OM3-LCLC-010</a> |                                                         |        |                        | 32.8' [10m] | \$-64ln: |
| <a href="#">FOM-OM4-LCLC-001</a> | AchieVe OM4 multi-mode fiber optic Ethernet patch cable | Violet | LC duplex to LC duplex | 3.2' [1m]   | \$-64l5: |
| <a href="#">FOM-OM4-LCLC-003</a> |                                                         |        |                        | 9.8' [3m]   | \$-64l6: |
| <a href="#">FOM-OM4-LCLC-005</a> |                                                         |        |                        | 16.4' [5m]  | \$-64lc: |
| <a href="#">FOM-OM4-LCLC-010</a> |                                                         |        |                        | 32.8' [10m] | \$-64li: |

# Achieve™ Fiber Optic Patch Cables



LC Connector



ST Connector



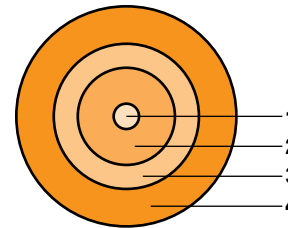
SC Connector

## Optical Characteristics and Physical Properties

| Fiber Type                          |         | OM1       | OM2     | OM3  | OM4    |
|-------------------------------------|---------|-----------|---------|------|--------|
| Jacket Color                        |         | Orange    | Orange  | Aqua | Violet |
| Core Diameter (μm)                  |         | 62.5 ±2.5 | 50 ±2.5 |      |        |
| Cladding Diameter (μm)              |         | 125 ±5.0  |         |      |        |
| Primary Coating Diameter (μm)       |         | 245 ±10   |         |      |        |
| Attenuation (max. in cable) (dB/km) | @850nm  | ≤ 3.4     | ≤ 3.0   |      |        |
|                                     | @1300nm | ≤ 1.0     |         |      |        |
| Bandwidth (overfilled) (MHz*km)     | @850nm  | 200       | 500     | 1500 | 3500   |
|                                     | @1300nm | 500       |         |      |        |
| Serial Ethernet 1 Gigabit (meters)  | @850nm  | –         | –       | 1000 | 1040   |
|                                     | @1300nm | –         | –       | 600  | 600    |
| Serial Ethernet 10 Gigabit (meters) | @850nm  | –         | –       | 300  | 550    |
|                                     | @1300nm | –         | –       | 300  | 300    |

## Cable Construction

|   |                        |                 |
|---|------------------------|-----------------|
| 1 | Fiber                  | 250μm multimode |
| 2 | Semi-tight Buffer Tube | 900μm LSZH      |
| 3 | Strength Member        | Aramid yarn     |
| 4 | Outer Jacket           | LSZH            |



## Cable Mechanical and Environmental Properties

|                        |                                                   |                                  |
|------------------------|---------------------------------------------------|----------------------------------|
| Type                   | 2 cores duplex fiber optic cable                  |                                  |
| Cable Outer Diameter   | 2.0 x 4.1 mm                                      |                                  |
| Jacket Material        | low smoke zero halogen (LSZH), UL94 V-0 compliant |                                  |
| Minimum Bending Radius | During Installation                               | 50mm (IEC 60794-1-2 E11)         |
|                        | In Service                                        | 25mm (IEC 60794-1-2 E11)         |
| Crush Resistance       | Short Term                                        | 4000 N/dm (IEC 60794-1-2 E3)     |
|                        | Long Term                                         | 1000 N/dm (IEC 60794-1-2 E3)     |
| Impact Resistance      | Wp=0.74J                                          | 40 impact (IEC 60794-1-2 E4)     |
|                        | Wp=1J                                             | 20 impact (IEC 60794-1-2 E4)     |
| Repeated Bending       | r=25mm w=0.5 kg                                   | 5000 cycles (IEC 60794-1-2 E6)   |
| Length Tolerance       | ±50mm                                             |                                  |
| Max. Tensile Strength  | 300N                                              |                                  |
| Temperature Range      | In Service                                        | –13°F to +158°F [–25°C to +70°C] |
|                        | In Storage                                        | –40°F to +158°F [–40°C to +70°C] |
| Fire Load              | 0.22 MJ/m                                         |                                  |

## Connector Specifications

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| LC Connector Compliance | IEC 61754-20, TIA 604-10-A, RoHS                  |
| SC Connector Compliance | IEC 61754-4, TIA 604-3, RoHS                      |
| ST Connector Compliance | IEC 61754-2, TIA 604-2, RoHS                      |
| Alignment Technology    | Full ceramic ferrule (Zirconia ZrO <sub>2</sub> ) |
| Operating Temperature   | –40°F to +185°F [–40°C to +85°C]                  |
| Flammability            | UL94 V-0 compliant                                |
| Durability              | <0.1 dB typical change for >500 matings           |

## Optical Performance

|                             |                                                           |
|-----------------------------|-----------------------------------------------------------|
| Insertion Loss (Multi-mode) | ≤ 0.30 dB Max.,<br>0.15 dB Typ.<br>IEC 61300-3-4 Method B |
| Return Loss (Multi-mode)    | ≥35dB<br>IEC 61300-3-6 Method B                           |

## End-face Control Parameters

|                     |                |
|---------------------|----------------|
| Geometry Inspection | IEC 61755-3-1  |
| Visual Inspection   | IEC 61300-3-35 |