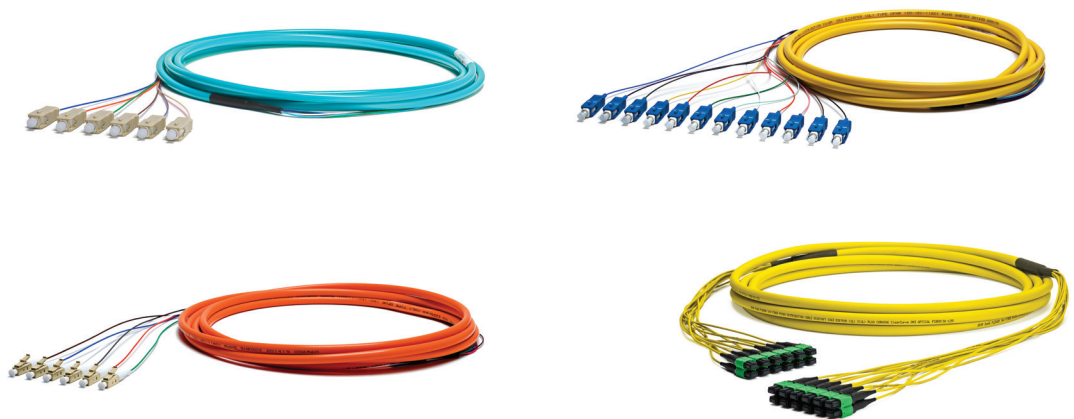


MULTI-FIBER CABLE ASSEMBLIES

PDS-0023



DESCRIPTION

Wirewerks™ offers a comprehensive line of custom-built, factory-terminated multi-fiber cable assemblies using your choice of fiber types, connectors, and assembly configurations. Each Wirewerks pre-terminated multi-fiber cable assembly is precision built to your exact mechanical and optical specifications, and then fully tested, documented, labelled and shipped for immediate installation on arrival.

Our in-house Fiber Assembly Plant, located here in North America, combines expert assembly technicians, state-of-the-art production and test equipment, and proven processes to ensure accurate, rapid production of each custom assembly. Our customer service experts are available to assist you in configuring individual assemblies, and then coordinating production scheduling of all the custom assemblies in a given project to meet your installation plan. Our expertise and proven processes put the right assembly, fully tested, on-site at the right time for on-time, on-budget installations.

All Wirewerks multi-fiber cable assemblies bring superior performance, reliability and plug-and-play simplicity to optical networks and systems. All assemblies are engineered, manufactured and tested in accordance with Telcordia, ANSI/TIA, and IEC industry standards and individually labeled with a unique serial number, custom part number, description, and connector test results.

**FEATURES
and BENEFITS**

- 100% insertion loss (IL), return loss (RL), end face geometry tested, as well as visual inspection for contaminants
- Actual test results included with each assembly
- Interferometer test results available upon request
- Zero error performance
- Single-mode OS2, and multi-mode OM1, OM2, OM3, OM4
- Bend-insensitive fiber available
- Standard connectors MPO, LC, SC, ST, FC, MTRJ (other connectors on request)
- Factory-installed pulling eye available (1 or 2 pulling eyes)
- Full range of cable constructions and ratings
- Installation requires no consumables, termination tool kits or specialized termination training
- No cable preparation; ready for installation on arrival
- No cable or connector scrap
- No termination errors
- Stringent factory process control ensures consistent superior quality and reliability
- Factory-termination improves end-to-end attenuation, throughput and link loss budgets
- Fast, error-free installs lowers total installation cost
- Superior performance and increased reliability lowers total cost of ownership

APPLICATIONS

- Data Centers: main, horizontal, zone and equipment distribution area
- SANs
- Enterprise LANs: intra- and inter-building (Premise and Campus LANs)
- 1, 10, 40 and 100 GbE applications
- PONs
- Security and transport systems
- CATV, MSO, Carrier networks

**PHYSICAL
SPECIFICATIONS**

| Parameter | Value |
|------------------------------------|---|
| LC, SC, MTRJ, MPO Housing Material | UL 94 V-0 ABS high-impact thermoplastic |
| ST, FC Housing Material | Nickel-Brass |
| Connector Ferrule Material | Zirconia Ceramic |
| MTRJ, MPO Ferrule Material | Composite |

**MECHANICAL
SPECIFICATIONS**

| Parameter | Value |
|-----------------------|------------------------------|
| Operating Temperature | -20°C (-4°F) ~ 60°C (140°F) |
| Storage Temperature | -40°C (-40°F) ~ 60°C (140°F) |

OPTICAL SPECIFICATIONS

| Parameter | | Value |
|----------------|----------------|--------------------------------|
| LC, SC, ST, FC | Insertion Loss | Single Mode UPC ≤ 0.30 dB |
| | | Single Mode APC ≤ 0.30 dB |
| | | Multimode PC ≤ 0.30 dB |
| | Return Loss | Single Mode UPC ≤ -55 dB |
| | | Single Mode APC ≤ -65 dB |
| MPO | Insertion Loss | Single Mode APC ≤ 0.75 dB |
| | | Multimode PC ≤ 0.50 dB |
| | Return Loss | Single Mode APC ≤ -55 dB |

STANDARDS COMPLIANCE

ITU-T G.652.D

Characteristics of single mode optical fiber cable – Low water peak single mode optical fiber

GR-326-CORE

Generic Requirements for Single Mode Optical Connectors and Jumper Assemblies

GR-20-CORE

Generic Requirements for Optical Fiber and Optical Fiber Cable

ANSI/TIA-568-C.3

Optical Fiber Cabling Components Standard

ANSI/TIA-598-C

Optical Fiber Cable Color Coding

TIA-604 series

Fiber Optic Connector Intermateability Standard

TIA-455 series

Standard Test Procedure for Fiber Optic Components

IEC 60874-1

Connectors for Optical Fibers and Cables – Generic Standard

UL 94

Optical Fiber Cable Color Coding

RoHS

Directive on Restriction of Hazardous Substances

ORDERING INFORMATION

| Part Number Builder | |
|--|--|
| FA - A B C D EE F GGG - HH I J J K L - NNN | |
| NNN Assembly length in meters | |

| Fiber Type | | Cable Type | | Jacket Type | | Armour Type | | Fiber Count | | Lead OD | | Lead Length | |
|------------|---|------------|-------------------------|-------------|---------------------|-------------|----------------|-------------|------------|----------|--------|-------------|------------------|
| 1 | Single mode OS2 | D | Distribution | A | Cca Fire Rating | N | Non Armoured | 02 | 2 fibers | 9 | 900 μm | XXN | Length in inches |
| 2 | 62.5/125μm multimode OM1 | B | Breakout | B | B2ca Fire Rating | B | BX Type Armour | 04 | 4 fibers | 2 | 2 mm | XXM | Length in meters |
| 3 | 50/125μm multimode OM2 | L | Loose Tube | P | OFNP (Plenum) | L | Light Armour | 06 | 6 fibers | 3 | 3 mm | ZZZ | N/A |
| 4 | 50/125μm multimode OM3 | R | Ribbon | R | OFNR (Riser) | | | 08 | 8 fibers | Z | N/A | | |
| 5 | 50/125μm multimode OM4 | M | Mini Distribution | Z | LSZH (Zero halogen) | | | 12 | 12 fibers | | | | |
| E | Single mode OS2 bend insensitive | C | Unjacketed Distribution | O | Outdoor (OSP) | | | 18 | 18 fibers | | | | |
| B | 50/125μm multimode OM2 bend insensitive | | | N | Indoor/outdoor OFNP | | | 24 | 24 fibers | | | | |
| C | 50/125μm multimode OM3 bend insensitive | | | L | Indoor/outdoor OFNR | | | 36 | 36 fibers | | | | |
| D | 50/125μm multimode OM4 bend insensitive | | | | | | | 48 | 48 fibers | | | | |
| | | | | | | | | 72 | 72 fibers | | | | |
| | | | | | | | | 96 | 96 fibers | | | | |
| | | | | | | | | C4 | 144 fibers | | | | |

| Connector side A | | Polish side A | | Connector side B | | Polish side B | | Accessory | |
|------------------|-----------------------|---------------|----------------|------------------|------------------------|---------------|----------------|-----------|----------------|
| LC | LC | A | APC | LC | LC | A | APC | 0 | None |
| SC | SC | B | UPC | SC | SC | B | UPC | 1 | 1 pulling eye |
| ST | ST | C | PC (multimode) | ST | ST | C | PC (multimode) | 3 | 2 pulling eyes |
| FC | FC | | | FC | FC | D | N/A | | |
| MT | MTRJ female | | | MT | MTRJ female | | | | |
| MB | MTRJ male | | | MB | MTRJ male | | | | |
| MP | 12F MPO female type A | | | MP | 12F MPO female type A | | | | |
| MA | 12F MPO male type A | | | MA | 12F MPO male type A | | | | |
| PP | 24F MPO female type A | | | PP | 24F MPO female type A | | | | |
| PA | 24F MPO male type A | | | PA | 12F MPO male type A | | | | |
| | | | | OE | Pigtail (no connector) | | | | |

NNN Assembly length in meters

***Other types of cable construction, connector, polish and MPO wiring scheme (such as Type B or C) are available upon request.**

If a decimal is required, add "D00" right after the non-decimal value and without leaving any space between. The "00" in "D00" must be replaced by the desired value. Example: an assembly with an overall length of 105.55 meters shall read as 105D55.

PACKAGING and SHIPPING

| Description |
|--|
| Clear poly bag, reel, or blister pack clam shell, 1 unit per packaging |