



MPO Cable Assemblies



MPO Fanout Cable Assemblies

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MPO cable assemblies provide a high performance plug-and-play solution for premise installations where space is a premium. Used to interconnect panels or cassettes, the small diameter MicroCore® cable construction reduces the required pathway space and provides a flexible outer jacket in both single-mode and multimode configurations. Multiple breakout options are also available including LC, SC, ST, or FC single fiber connectors.

Features

- High density, plug and play fiber optic interconnects
- Pre-terminated cable assemblies eliminate field termination time and guarantee optical performance
- Available with a wide variety of cable and connector options
- Standard and low loss connectors
- Single-mode and laser-optimized multimode fiber available
- Pulling eye option available upon request

Applications

- Data center systems wiring
- MPO-MPO or MPO-Fanouts
- Headend termination to a fiber "backbone"
- Termination of fiber rack systems
- Multi-floor deployment
- Intra-building "backbones"

Specifications

| PARAMETER | SINGLE-MODE ASSEMBLIES | | | | | MULTIMODE ASSEMBLIES | | |
|--------------------------------|------------------------|--------|-------|--------|--------|----------------------|------|----------------|
| | LC | | SC | | MPO | LC | SC | MPO (LOW LOSS) |
| | ULTRA | ANGLED | ULTRA | ANGLED | ANGLED | | | |
| Insertion Loss (Typical dB)*** | 0.15 | 0.15 | 0.15 | 0.15 | 0.35 | 0.15 | 0.15 | 0.15 |
| Insertion Loss (Maximum dB) | 0.3 | 0.3 | 0.3 | 0.3 | 0.75 | 0.5 | 0.5 | 0.2 |
| Return Loss (Typical dB)*** | -60 | -70 | -60 | -70 | -65 | -35 | -35 | -30 |
| Return Loss (Minimum dB) | -55 | -65 | -55 | -65 | -55 | -30 | -30 | -20 |
| Operation Temperature | 0°C to 70°C | | | | | | | |
| Durability Cycles | 500 | 500 | 500 | 500 | 200 | 500 | 500 | 200 |

*** Typical values based on equal quality connectors.

continued
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Ordering Information

MPO-MPO Assemblies

(Female MPOs on both ends – no pins)
(Polarity: Key Up/Key Up, Straight Through)

| FIBER COUNT | FIBER TYPE | PULLING EYE | AFL NO. |
|-------------|--------------------------------------|-------------|---------------|
| 12 | Single-mode, Single Jacket | No | CS017463-XXXX |
| 12 | Single-mode | No | CS009980-XXXX |
| 12 | Single-mode | Yes | CS009981-XXXX |
| 24 | Single-mode | No | CS009984-XXXX |
| 24 | Single-mode | Yes | CS009985-XXXX |
| 72 | Single-mode | No | CS009996-XXXX |
| 72 | Single-mode | Yes | CS009997-XXXX |
| 12 | 50 µm 10gig 300 (OM3), Single Jacket | No | CS003695-XXXX |
| 12 | 50 µm 10gig 300 (OM3) | No | CS010649-XXXX |
| 12 | 50 µm 10gig 300 (OM3) | Yes | CS010650-XXXX |
| 24 | 50 µm 10gig 300 (OM3) | No | CS003700-XXXX |
| 24 | 50 µm 10gig 300 (OM3) | Yes | CS009912-XXXX |
| 72 | 50 µm 10gig 300 (OM3) | No | CS003720-XXXX |
| 72 | 50 µm 10gig 300 (OM3) | Yes | CS010016-XXXX |
| 12 | 50 µm 10gig 550 (OM4), Single Jacket | No | CS013364-XXXX |
| 12 | 50 µm 10gig 550 (OM4) | No | CS008420-XXXX |
| 12 | 50 µm 10gig 550 (OM4) | Yes | CS010165-XXXX |
| 24 | 50 µm 10gig 550 (OM4) | No | CS010100-XXXX |
| 24 | 50 µm 10gig 550 (OM4) | Yes | CS010066-XXXX |
| 72 | 50 µm 10gig 550 (OM4) | No | CS010101-XXXX |
| 72 | 50 µm 10gig 550 (OM4) | Yes | CS010067-XXXX |

NOTE: XXXX is length in meters.

Contact AFL Customer Service for additional polarity schemes available.

Qualifications

| GOVERNING BODY | STANDARD CODE | COMPONENT |
|----------------|-------------------------------|---------------------|
| Telcordia | GR-326/GR-1435 GR-409-CORE | Connectors Cable |
| EIA/TIA | 568-A | Cable |

Contact AFL for further details.

MPO Fanout Assemblies

(Male MPOs — Duplex Connectors)

| FIBER COUNT | FIBER TYPE | PULLING EYE | AFL NO. | |
|-------------|-----------------------|-------------|--------------------|--------------------|
| | | | MALE MPO-LC DUPLEX | MALE MPO-SC DUPLEX |
| 12 | Single-mode | No | CS009521-XXXX | CS010020-XXXX |
| 12 | Single-mode | Yes | CS0010017-XXXX | CS010021-XXXX |
| 24 | Single-mode | No | CS003796-XXXX | CS010022-XXXX |
| 24 | Single-mode | Yes | CS010018-XXXX | CS010023-XXXX |
| 72 | Single-mode | No | CS003811-XXXX | CS010024-XXXX |
| 72 | Single-mode | Yes | CS010019-XXXX | CS010025-XXXX |
| 12 | 50 µm 10gig 300 (OM3) | No | CS011510-XXXX | CS010030-XXXX |
| 12 | 50 µm 10gig 300 (OM3) | Yes | CS010027-XXXX | CS010031-XXXX |
| 24 | 50 µm 10gig 300 (OM3) | No | CS003795-XXXX | CS010032-XXXX |
| 24 | 50 µm 10gig 300 (OM3) | Yes | CS010028-XXXX | CS010033-XXXX |
| 72 | 50 µm 10gig 300 (OM3) | No | CS003810-XXXX | CS010034-XXXX |
| 72 | 50 µm 10gig 300 (OM3) | Yes | CS010029-XXXX | CS010035-XXXX |
| 12 | 50 µm 10gig 550 (OM4) | No | CS009519-XXXX | CS010073-XXXX |
| 12 | 50 µm 10gig 550 (OM4) | Yes | CS010068-XXXX | CS010074-XXXX |
| 24 | 50 µm 10gig 550 (OM4) | No | CS010069-XXXX | CS010075-XXXX |
| 24 | 50 µm 10gig 550 (OM4) | Yes | CS010070-XXXX | CS010076-XXXX |
| 72 | 50 µm 10gig 550 (OM4) | No | CS010071-XXXX | CS010077-XXXX |
| 72 | 50 µm 10gig 550 (OM4) | Yes | CS010072-XXXX | CS010078-XXXX |