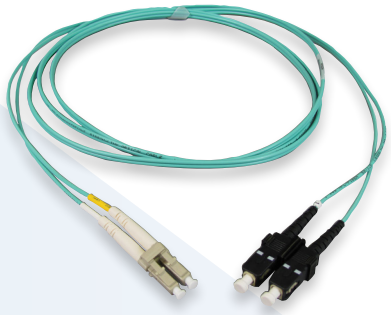
# **Cables** Assemblies

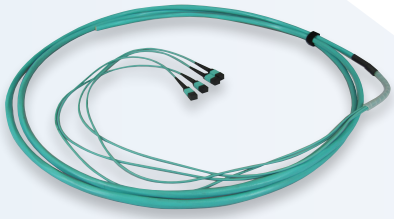
SUMITOMO ELECTRIC LIGHTWAVE

## Data Center Enterprise Network Cable Assemblies 1-432 Fibers

Simplex Patch Cords



Duplex Patch Cords



Distribution Trunk Cables

### Description:

Sumitomo Electric Lightwave's 4th Level® cable assemblies are designed for use in any application requiring optical connections. Available in simplex, duplex, interconnect and trunk configurations, these assemblies can contain up to 432 optical fibers.

### Features:

- Customizable Termination and Cable Options Available
- Can be Designed with the Following Fiber Types: SM; 62.5µm (OM1); 50µm (OM2) and 50µm Laser Optimized (OM3/OM4)
- Various Connector End Configurations (See Ordering Information Table Below)

### Applications:

- Data Centers
- MPO Cassettes
- High Density Distribution Panels
- Direct Connection to Equipment
- Connection Between Patch Panels
- Restricted Space Installations
- Central Office Cross Connects

### Specifications:

- Riser (OFNR/FT4) and Plenum (OFNP/FT6)
- 100% Visual/Optical Performance Verification
- Exceeds TIA and Telcordia Requirements
- Insertion Loss and Back Reflection Performance that Meets or Exceeds Industry Standards

## Flexible MPO Connector

### Description:

Sumitomo Electric Lightwave introduces a new MPO connector, available in preterminated assemblies, with innovative features to better accommodate changing network designs. With the ability to change gender from Male to Female and Female to Male in the field, the Flexible MPO connector is ideal for any installation. Additional features include the ability to change polarity in the field and is the first MPO to offer single-handed push/pull operation for installation and removal. With a boot up to 36% shorter than other connectors in the industry, the new connector

from Sumitomo Electric Lightwave is a game changer for the fiber optic industry. Also available is an optional installation/removal tool which greatly simplifies connector use in a high density environment.

### Features:

- Gender Change in the Field
- Polarity Change in the Field
- Single-Handed Push/Pull Operation
- Shortest Boot in the Industry
- Meets Telecordia Standards

SUMITOMO ELECTRIC LIGHTWAVE



# Cable Assembly Ordering Guide

## Cz - 1 222 3 4 5 6 7 8 999 10 - x y p (17-21 characters)

| z<br>Polarity / Pin-Out | 1<br>Fiber Type | 222<br>Fiber | 3<br>Cable Design | 4<br>Sheath | 5<br>Subunits | 6<br>Boot Diameter | 7<br>Conn - End A/P1 | 8<br>Conn - End B/P2 | 999<br>Length | 10<br>Length Unit | x<br>End A BO Length | y<br>End B BO Length | p<br>Pulling Eye |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A = MPO Method A; 1-1B; 1A-1B | 1 = OM1 (62.5uM) | 001 | I = Tight Buffer (900um) | 1 = Interlocking Armor I/O Riser | U = 250um | V = Typical Configuration | N = MTP(F), 24F, STD LOSS | N = MTP(F), 24F, STD LOSS | 001 - 999+ | F = Feet | 1 = 18 Inches - No Stagger | 1 = 18 Inches - No Stagger | A = Pulling Eye on P1 End Only |
| B = MPO Method B; 1-1A; 1A-1A | 2 = OM2 (50uM) | 002 | W = Loose Buffer (250um) | 2 = Interlocking Armor I/O Plenum | S = 900um | | 3 = MTP(F), 24F, LOW LOSS | 3 = MTP(F), 24F, LOW LOSS | | M = Meters | 2 = 24 Inches - No Stagger | 2 = 24 Inches - No Stagger | B = Pulling Eye on P2 End Only |
| 1 = MPO24 Method 1 | 3 = OM3 (50uM) | 004 | R = (Ribbon) | G = Indoor/Outdoor Riser | R = Ribbon | | W = MPO(F), 24F, STD LOSS | W = MPO(F), 24F, STD LOSS | | | 3 = 36 Inches - No Stagger | 3 = 36 Inches - No Stagger | D = Pulling Eye on Both Ends |
| 2 = MPO24 Method 2 | 4 = OM4 (50uM) | 006 | | H = Interlocking Armor Plenum | | | 0 = MPO(F), 24F, LOW LOSS | 0 = MPO(F), 24F, LOW LOSS | | | 4 = 48 Inches - No Stagger | 4 = 48 Inches - No Stagger | X = No Pulling Eye |
| 3 = MPO24 Method 3 | 5 = SM (Low Water Peak) | 008 | | L = Interlocking Armor Riser | | | P = MTP(M),24F, STD LOSS | P = MTP(M),24F, STD LOSS | | | 5 = 60 Inches - No Stagger | 5 = 60 Inches - No Stagger | |
| 4 = MPO24 Method 4 | 8 = SM (Bend Insensitive) | 012 | | P = Riser | | | 4 = MTP(M), 24F, LOW LOSS | 4 = MTP(M), 24F, LOW LOSS | | | 6 = 72 Inches - No Stagger | 6 = 72 Inches - No Stagger | |
| G = 40G Method B; 1-1A (outer 8F) | 9 = SM (Standard) | 016 | | U = Plenum | | | Y = MTP(F), 12F, STD LOSS | Y = MTP(F), 12F, STD LOSS | | | 7 = 16 Inches - No Stagger | 7 = 16 Inches - No Stagger | |
| H = 40G Method A; 1-1B (outer 8F) | | 024 | | X = No Jacket | | | 2 = MTP(F), 12F, LOW LOSS | 2 = MTP(F), 12F, LOW LOSS | | | 8 = 12 Inches - No Stagger | 8 = 12 Inches - No Stagger | |
| C = MPO Method C | | 036 | | Y = Indoor/Outdoor Plenum | | | 8 = MPO(F), 12F, STD LOSS | 8 = MPO(F), 12F, STD LOSS | | | | | |
| D = MPO SM Method B (with window up key down) | | 048 | | Z = Low Smoke Zero Halogen | | | 7 = MPO(F), 12F, LOW LOSS | 7 = MPO(F), 12F, LOW LOSS | | | | | |
| | | 050 | | | | | M = MTP(M), 12F, STD LOSS | M = MTP(M), 12F, STD LOSS | | | | | |
| | | 060 | | | | | 1 = MTP(M), 12F, LOW LOSS | 1 = MTP(M), 12F, LOW LOSS | | | | | |
| | | 072 | | | | | 6 = MPO(M), 12F, STD LOSS | 6 = MPO(M), 12F, STD LOSS | | | | | |
| | | 096 | | | | | 5 = MPO(M), 12F, LOW LOSS | 5 = MPO(M), 12F, LOW LOSS | | | | | |
| | | 144 | | | | | J = MTRJ(F) | J = MTRJ(F) | | | | | |
| | | 288 | | | | | K = MTRJ(M) | K = MTRJ(M) | | | | | |
| | | 432 | | | | | L = LC, MM/SM, DX | L = LC, MM/SM, DX | | | | | |
| | | | | | | | Q = LC, MM/SM, SX | Q = LC, MM/SM, SX | | | | | |
| | | | | | | | A = LC/APC, DX | A = LC/APC, DX | | | | | |
| | | | | | | | E = LC/APC, SX | E = LC/APC, SX | | | | | |
| | | | | | | | U = LC-UNI-BOOT | U = LC-UNI-BOOT | | | | | |
| | | | | | | | R = LC-UNI-BOOT (Reversible) | R = LC-UNI-BOOT (Reversible) | | | | | |
| | | | | | | | S = SC, MM/SM, DX | S = SC, MM/SM, DX | | | | | |
| | | | | | | | V = SC, MM/SM, SX | V = SC, MM/SM, SX | | | | | |
| | | | | | | | B = SC/APC, DX | B = SC/APC, DX | | | | | |
| | | | | | | | H = SC/APC, SX | H = SC/APC, SX | | | | | |
| | | | | | | | F = FC, MM/SM | F = FC, MM/SM | | | | | |
| | | | | | | | C = FC/APC | C = FC/APC | | | | | |
| | | | | | | | T = ST, MM/SM | T = ST, MM/SM | | | | | |
| | | | | | | | X = BARE END (Open/Blunt) | X = BARE END (Open/Blunt) | | | | | |

For ordering assistance, please contact Customer Service at 800-358-7378 or visit our website at: **www.sumitomoelectric.com**