

## Important Note

Singlemode can support 40GBASE-PLR4 / 100GBASE-PSM4 in applicable parallel optics networks.

## MTP/MPO (APC) to 4xLC (UPC) Singlemode Breakout Patch Cable, 40/100 GbE, QSFP+ 40GBASE-PLR4, Plenum, Yellow, 5 m (16 ft.)

MODEL NUMBER: **N390-05M-8LC-AP**



Premium 9/125 singlemode fiber optic cabling for transmitting 40/100 Gb data and voice signals. Designed for high-density fiber patching between data center MDFs and IDF in enterprise installations.

## Features

### 9/125 Rated Singlemode Cable for 40/100 Gb Ethernet Applications

- Designed for high-density fiber patching between data center MDFs and IDF in enterprise installations
- Optimized for QSFP+ 40GBASE-PLR4 and QSFP28 100GBASE-PSM4 networks
- Plenum-rated jacket suited for ceilings, walls and ducts
- Yellow-colored for identification as a singlemode cable

### MTP/MPO APC and LC Duplex UPC Connectors with Push/Pull Tabs

- MTP/MPO female connector and 8 LC duplex male connectors—no splicing required
- 12-fiber MTP/MPO connector 12 times denser than SC connector
- APC connector angled to prevent light from reflecting back into laser
- UPC connector with premium-grade ceramic ferrule for 10 GbE and faster applications
- Push/pull tabs easy to install and remove with one hand

### Error-Free Signal Transfer

- Fully transmits 40GBASE-PLR4 with 4 fibers transmitting at 10 Gbps in each direction
- 100% tested for low insertion loss and back reflection
- Slim, space-saving uniboot design easier to manage in crowded applications

## Highlights

- Push/pull tab connectors install/remove with one hand
- 12-fiber MTP/MPO connectors with 12x density of SC connectors
- Slim space-saving uniboot design for easy cable management
- Angled APC connectors protect laser against destabilization
- Yellow color for quick singlemode identification

## Package Includes

- N390-05M-8LC-AP MTP/MPO to 8xLC Singlemode Breakout Patch Cable, Yellow, 5 m

## Specifications

| <b>OVERVIEW</b>                 |                                 |
|---------------------------------|---------------------------------|
| UPC Code                        | 037332205605                    |
| Technology                      | Singlemode                      |
| Optical Mode                    | OS2                             |
| <b>PHYSICAL</b>                 |                                 |
| Cable Jacket Color              | Yellow                          |
| Connector Color                 | Blue; Green; Black              |
| Cable Jacket Material           | PVC                             |
| Cable Jacket Rating             | OFNP                            |
| Clad Diameter (microns)         | 125                             |
| Core Diameter (microns)         | 9                               |
| Number of Fibers                | 8                               |
| Cable Length (ft.)              | 16.4                            |
| Cable Length (m)                | 5.00                            |
| Cable Length (in.)              | 196.9                           |
| Minimum Bend Radius             | 20 mm (Dynamic); 10 mm (Static) |
| Shipping Dimensions (hwd / in.) | 9.00 x 7.00 x 0.50              |
| Shipping Dimensions (hwd / cm)  | 22.86 x 17.78 x 1.27            |
| Shipping Weight (lbs.)          | 0.21                            |
| Shipping Weight (kg)            | 0.10                            |
| Fiber Cable Length              | 5M (16.4 ft)                    |
| <b>ENVIRONMENTAL</b>            |                                 |
| Operating Temperature Range     | -4° to 140°F (-20° to 60°C)     |
| Storage Temperature Range       | -4° to 140°F (-20° to 60°C)     |
| Operating Humidity Range        | 5% to 85% RH, Non-Condensing    |
| Storage Humidity Range          | 35% to 65% RH, Non-Condensing   |
| <b>COMMUNICATIONS</b>           |                                 |
| Network Compatibility           | 40 Gbps; 100 Gbps; 400 Gbps     |
| Attenuation @ 1310NM            | 0.36 dB/km                      |
| Attenuation @ 1550NM            | 0.22 dB/km                      |
| Insertion Loss                  | MPO 0.70 dB; LC 0.30 dB         |

| CONNECTIONS                         |                            |
|-------------------------------------|----------------------------|
| Side A - Connector 1                | 12-STRAND MTP/MPO (FEMALE) |
| Side B - Connector 1                | (8) LC DUPLEX (MALE)       |
| Endface Polish                      | APC; UPC                   |
| FEATURES & SPECIFICATIONS           |                            |
| Push/Pull Tabs                      | Yes                        |
| Breakout                            | Yes                        |
| Trunk                               | No                         |
| STANDARDS & COMPLIANCE              |                            |
| Product Compliance                  | RoHS; REACH                |
| WARRANTY & SUPPORT                  |                            |
| Product Warranty Period (Worldwide) | Lifetime limited warranty  |