

## M9B031 Fiber - Tight Buffer Breakout Cables (2.5 mm subunits)-Plenum (OFNP)



For more Information  
please call

1-800-Belden1

**Description:**

FiberExpress Optical Fiber Breakout Cables are designed for low to medium fiber count in-building, harsh-environment installations. Breakout or fanout cables offer a high degree of flexibility for backbone and horizontal applications.

**Physical Characteristics (Overall)**

|                                    |                                       |
|------------------------------------|---------------------------------------|
| <b>Fiber Type:</b>                 | 62.5/125/900 Micron                   |
| <b>Number of Fibers:</b>           | 6                                     |
| <b>Core Diameter:</b>              | 62.5 +/- 2.5                          |
| <b>Core Non-Circularity:</b>       | 5% Maximum                            |
| <b>Clad Diameter:</b>              | 125 +/- 2                             |
| <b>Clad Non-Circularity:</b>       | 1% Maximum                            |
| <b>Primary Coating Material:</b>   | Acrylate                              |
| <b>Primary Coating Diameter:</b>   | 245 +/- 10                            |
| <b>Secondary Coating Material:</b> | Plenum Grade PVC - Polyvinyl Chloride |
| <b>Secondary Coating Diameter:</b> | 900 +/- 50                            |
| <b>Breakout Element Diameter:</b>  | .098                                  |
| <b>Breakout Element Material:</b>  | Plenum Grade PVC - Polyvinyl Chloride |

**Buffer Tube Color Code Chart:**

| Number | Color  |
|--------|--------|
| 1      | Blue   |
| 2      | Orange |
| 3      | Green  |
| 4      | Brown  |
| 5      | Slate  |
| 6      | White  |

|                          |                     |
|--------------------------|---------------------|
| <b>Core-clad Offset:</b> | 1.5 Microns Maximum |
|--------------------------|---------------------|

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material                 |
|---------------------------------------|
| Plenum Grade PVC - Polyvinyl Chloride |

|                            |        |
|----------------------------|--------|
| <b>Outer Jacket Color:</b> | Orange |
|----------------------------|--------|

**Strength Member**

|                                  |             |
|----------------------------------|-------------|
| <b>Strength Member Material:</b> | Aramid Yarn |
|----------------------------------|-------------|

**Overall Cabling**

|                                  |           |
|----------------------------------|-----------|
| <b>Overall Nominal Diameter:</b> | 0.348 in. |
|----------------------------------|-----------|

**Mechanical Characteristics (Overall)**

|  |                       |
|--|-----------------------|
| <b>Storage Temperature Range:</b>                  | -40°C To +80°C        |
| <b>Operating Temperature Range:</b>                | -20°C To +70°C        |
| <b>Bulk Cable Weight:</b>                          | 55 lbs/1000 ft.       |
| <b>Min. Bend Radius (Install)/Minor Axis:</b>      | 5.200 in.             |
| <b>Min. Bend Radius for Long Term Application:</b> | 3.500 in.             |
| <b>Crush Resistance:</b>                           | EIA-455-41, 2000 N/cm |

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|   |                                    |
|---|------------------------------------|
| <b>Impact Resistance:</b>                   | EIA-455-25, 2000 Impacts w/1.6 N-m |
| <b>Cyclic Flexing:</b>                      | EIA-455-104 2000 Cycles min.       |
| <b>Max. Load for Installation:</b>          | 600 lbs.                           |
| <b>Max. Load for Long Term Application:</b> | 145 lbs.                           |
| <b>Proof Test:</b>                          | 100 kpsi                           |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                 |        |
|---------------------------------|--------|
| <b>NEC/(UL) Specification:</b>  | OFNP   |
| <b>CEC/C(UL) Specification:</b> | OFN    |
| <b>IEEE Specification:</b>      | 802.3Z |

**Flame Test**

|                          |          |
|--------------------------|----------|
| <b>UL Flame Test:</b>    | NFPA 262 |
| <b>C(UL) Flame Test:</b> | FT6      |

**Suitability**

|                               |     |
|-------------------------------|-----|
| <b>Suitability - Indoor:</b>  | Yes |
| <b>Suitability - Outdoor:</b> | No  |
| <b>Sunlight Resistance:</b>   | No  |

**Plenum/Non-Plenum**

|                      |     |
|----------------------|-----|
| <b>Plenum (Y/N):</b> | Yes |
|----------------------|-----|

**Optical Characteristics (Overall)**

|  |            |
|--|------------|
| <b>Maximum Attenuation @ 850nm:</b>              | 3.5 dB/km  |
| <b>Maximum Attenuation @ 1300nm:</b>             | 1.25 dB/km |
| <b>Point Loss @ 850nm &amp; 1300nm:</b>          | .2         |
| <b>Minimum Bandwidth @ 850nm:</b>                | 200 MHz*km |
| <b>Minimum Bandwidth @ 1300nm:</b>               | 500 MHz*km |
| <b>Refractive Index @ 850nm:</b>                 | 1.496      |
| <b>Refractive Index @ 1300nm:</b>                | 1.491      |
| <b>Numerical Aperature:</b>                      | .275       |
| <b>Maximum Gigabit Ethernet Length @ 850nm:</b>  | 300        |
| <b>Maximum Gigabit Ethernet Length @ 1300nm:</b> | 550        |

**Notes (Overall)**

**Notes:** Note: Outdoor installation must be in conduit or protected from UV exposure.

**Reference (Overall)**

|                              |         |
|------------------------------|---------|
| <b>Previous Part Number:</b> | MTBP606 |
|------------------------------|---------|

**Put Ups and Colors:**

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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