

**M9W500T Fiber - Loose Tube All Dielectric - Dry Core/Single PE Jacket**

For more Information  
please call

1-800-Belden1

**Description:**

FiberExpress Loose Tube Optical Fiber Cables are loose-tube buffered cables suited for outdoor applications such as lashed aerial or underground conduit.

**Physical Characteristics (Overall)**

|                                    |                            |
|------------------------------------|----------------------------|
| <b>Fiber Type:</b>                 | Single Mode 125/245 Micron |
| <b>Number of Fibers:</b>           | 24                         |
| <b>Core Diameter:</b>              | 8.3                        |
| <b>Clad Diameter:</b>              | 125 +/- 2                  |
| <b>Primary Coating Material:</b>   | Acrylate                   |
| <b>Primary Coating Diameter:</b>   | 245 +/- 10                 |
| <b>Secondary Coating Material:</b> | Engineering Thermoplastic  |
| <b>Secondary Coating Diameter:</b> | 250                        |

**Fiber Color Code Chart:**

| Color  |
|--------|
| Blue   |
| Orange |
| Green  |
| Brown  |
| Slate  |
| White  |

|                                      |                                  |
|--------------------------------------|----------------------------------|
| <b>Buffer Tube Diameter:</b>         | 1.9                              |
| <b>Buffer Tube Material:</b>         | PBT - Polybutylene Terephthalate |
| <b>Buffer Tube Filling Material:</b> | Synthetic Thixotropic Gel        |

**Buffer Tube Color Code Chart:**

| Number | Color  |
|--------|--------|
| 1      | Blue   |
| 2      | Orange |
| 3      | Green  |
| 4      | Brown  |

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

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

| Outer Jacket Material              |
|------------------------------------|
| MDPE - Medium Density Polyethylene |

|   |       |
|---|-------|
| <b>Outer Jacket Nominal Wall Thickness:</b> | 0.060 |
|---|-------|

**Outer Jacket Diameter:**

| Nom. Dia. (in.) |
|-----------------|
| 0.380           |

|                              |           |
|------------------------------|-----------|
| <b>Outer Jacket Ripcord:</b> | Polyester |
| <b>Outer Jacket Color:</b>   | Black     |

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|                                  |                                   |
|----------------------------------|-----------------------------------|
| Outer Jacket Separator Material: | Water Swellable Tape, 25% Overlap |
|----------------------------------|-----------------------------------|

**Strength Member**

|                           |                                   |
|---------------------------|-----------------------------------|
| Strength Member Material: | Fiberglass Epoxy Rod, Aramid Yarn |
|---------------------------|-----------------------------------|

**Overall Cabling**

|                           |           |
|---------------------------|-----------|
| Overall Nominal Diameter: | 0.380 in. |
|---------------------------|-----------|

**Mechanical Characteristics (Overall)**

|   |   |
|---|---|
| Storage Temperature Range:                  | -50°C To +80°C                                |
| Operating Temperature Range:                | -40°C To +70°C                                |
| Min. Bend Radius (Install)/Minor Axis:      | 7.500 in.                                     |
| Min. Bend Radius for Long Term Application: | 5.600 in.                                     |
| Crush Resistance:                           | Passes TIA/EIA 455-41, 2000 N/cm              |
| Impact Resistance:                          | Passes TIA/EIA 455-25, 2000 Impacts w/1.6 N-m |
| Max. Load for Installation:                 | 600 lbs.                                      |

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

|                                       |             |
|---------------------------------------|-------------|
| EU Directive 2000/53/EC (ELV):        | Yes         |
| EU Directive 2002/95/EC (RoHS):       | Yes         |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2006  |
| EU Directive 2002/96/EC (WEEE):       | Yes         |
| EU Directive 2003/11/EC (BFR):        | Yes         |
| CA Prop 65 (CJ for Wire & Cable):     | Yes         |
| MII Order #39 (China RoHS):           | Yes         |
| Telecommunications Standards:         | 568B        |
| Other Specification:                  | ITU G.652.d |

**Plenum/Non-Plenum**

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

**Optical Characteristics (Overall)**

|                               |            |
|-------------------------------|------------|
| Maximum Attenuation @ 1310nm: | 0.40 dB/km |
| Maximum Attenuation @ 1550nm: | 0.30 dB/km |

**Put Ups and Colors:**

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

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