

Breakout Style Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated

Applications

- Low to medium fiber count requirements
- In-building backbone or horizontal deployment
- Office wiring
- Factory floor automation and harsh environment installations

Product Description

Full dielectric construction, no grounding required. Available with 2 to 36 fibers. Fiber subunits are color coded for easy identification. Length markings in meters for easy determination of cable length. For Riser offering, MSHA approved cables are available.

| | |
|----------------------------------|-------------------------------------|
| Outer Jacket Material | |
| Riser & Plenum | PVC |
| Plenum | PVDF |
| Low Smoke Zero Halogen | LSZH |
| Sub-unit Jacket Material | |
| Riser & Plenum | PVC |
| Low Smoke Zero Halogen | LSZH |
| Tight Buffer | |
| Riser & Plenum | PVC |
| Low Smoke Zero Halogen | LSZH |
| Strength Member | |
| | Aramid Yarn |
| Color Code (Tight Buffer) | |
| | Per EIA/TIA 598-A, see page 10.2 |
| Jacket Color | |
| Single-mode | Yellow |
| 62.5/125 μ m | Orange (Green for LSZH only) |
| 50/125 μ m / 1 Gbe | Orange |
| 50/125 μ m / 10 Gbe | Aqua |

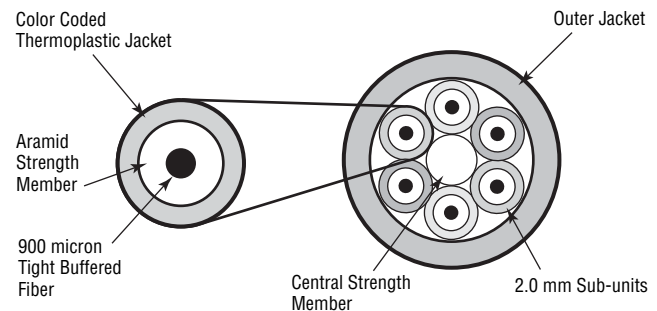
Ratings

| | |
|-------------------------------|----------|
| Riser | |
| UL Type | OFNR |
| cUL Type | OFN FT4 |
| Flame Resistance | UL 1666 |
| Plenum | |
| UL Type | OFNP |
| cUL Type | OFN FT6 |
| Flame Resistance | NFPA 262 |
| Low Smoke Zero Halogen | |
| UL Type | OFNR |
| cUL Type | OFN FT4 |
| Flame Resistance | UL 1666 |

Specifications

| | |
|---------------------------------------|------------------------|
| Temperature Range | |
| Storage | -40 to +80°C |
| Operating | -20 to +70°C |
| Crush Resistance (EIA-455-41) | 2000 N/cm |
| Impact Resistance (EIA-455-25) | 2000 Impacts @ 1.6 N-m |
| Cyclic Flexing (EIA-455-104) | 2000 cycles, min. |
| Min. Bend Radius | |
| Installation | 15 x OD |
| Long Term | 10 x OD |
| Optical Specifications | See page 10.2 |

Fiber Bundle Detail



Breakout Style CableTight Buffer — Indoor Riser, Plenum & LSZH Rated (*continued*)

| No. of Fibers | Belden Part Number | | | | Outside Diameter | | Weight | | Max. Install Load | |
|--------------------------------------|---------------------------|-------------------------|--------------------------|----------------------|------------------|-------|------------|-------|-------------------|------|
| | 62.5 / 125µm Std. / 1 Gbe | 50 / 125µm Std. / 1 Gbe | 50 / 125µm 10 Gbe – 300M | Single-mode Enhanced | Inch | mm | Lbs./1000' | kg/km | Lbs. | N |
| Breakout Cable Series | | | | | | | | | | |
| Riser (NEC/CEC OFNR/OFN FT4) | | | | | | | | | | |
| 2 | M9B005 | M9A005 | M9C005 | M9W005 | 0.260 | 6.60 | 24 | 36 | 180 | 801 |
| 4 | M9B006 | M9A006 | M9C006 | M9W006 | 0.321 | 8.15 | 35 | 52 | 345 | 1535 |
| 6 | M9B007 | M9A007 | M9C007 | M9W007 | 0.358 | 9.09 | 54 | 80 | 543 | 2415 |
| 8 | M9B008 | M9A008 | M9C008 | M9W008 | 0.405 | 10.29 | 69 | 103 | 600 | 2700 |
| 10 | M9B009 | M9A009 | M9C009 | M9W009 | 0.455 | 11.56 | 86 | 128 | 600 | 2700 |
| 12 | M9B010 | M9A010 | M9C010 | M9W010 | 0.514 | 13.06 | 110 | 164 | 600 | 2700 |
| 18 | M9B011 | M9A011 | M9C011 | M9W011 | 0.520 | 13.21 | 104 | 155 | 600 | 2700 |
| 24 | M9B012 | M9A012 | M9C012 | M9W012 | 0.590 | 14.99 | 135 | 201 | 600 | 2700 |
| 36 | M9B083 | M9A083 | M9C083 | M9W083 | 0.680 | 17.27 | 168 | 250 | 600 | 2700 |
| Plenum (NEC/CEC OFNP/OFN FT6) | | | | | | | | | | |
| 2 | M9B013 | M9A013 | M9C013 | M9W013 | 0.230 | 5.84 | 20 | 30 | 180 | 801 |
| 4 | M9B014 | M9A014 | M9C014 | M9W014 | 0.263 | 6.68 | 30 | 45 | 345 | 1535 |
| 6 | M9B015 | M9A015 | M9C015 | M9W015 | 0.309 | 7.85 | 41 | 61 | 465 | 2068 |
| 8 | M9B016 | M9A016 | M9C016 | M9W016 | 0.336 | 8.53 | 55 | 82 | 600 | 2700 |
| 10 | M9B017 | M9A017 | M9C017 | M9W017 | 0.385 | 9.78 | 73 | 109 | 600 | 2700 |
| 12 | M9B018 | M9A018 | M9C018 | M9W018 | 0.391 | 9.93 | 65 | 97 | 600 | 2700 |
| 18 | M9B019 | M9A019 | M9C019 | M9W019 | 0.456 | 11.58 | 89 | 132 | 600 | 2700 |
| 24 | M9B020 | M9A020 | M9C020 | M9W020 | 0.544 | 13.82 | 117 | 174 | 600 | 2700 |
| 36 | M9B082 | M9A082 | M9C082 | M9W082 | 0.612 | 15.54 | 154 | 229 | 600 | 2700 |
| LSZH (NEC/CEC OFNR/OFN FT4) | | | | | | | | | | |
| 2 | M9B130 | M9A130 | M9C130 | M9W130 | 0.290 | 7.37 | 39 | 57 | 270 | 1200 |
| 4 | M9B131 | M9A131 | M9C131 | M9W131 | 0.351 | 8.92 | 38 | 55 | 285 | 1268 |
| 6 | M9B132 | M9A132 | M9C132 | M9W132 | 0.358 | 9.09 | 52 | 76 | 543 | 2415 |
| 8 | M9B133 | M9A133 | M9C133 | M9W133 | 0.405 | 10.29 | 67 | 98 | 600 | 2700 |
| 10 | M9B134 | M9A134 | M9C134 | M9W134 | 0.455 | 11.56 | 110 | 162 | 600 | 2700 |
| 12 | M9B135 | M9A135 | M9C135 | M9W135 | 0.514 | 13.06 | 110 | 161 | 600 | 2700 |
| 18 | M9B136 | M9A136 | M9C136 | M9W136 | 0.520 | 13.21 | 103 | 151 | 600 | 2700 |
| 24 | M9B137 | M9A137 | M9C137 | M9W137 | 0.590 | 14.99 | 138 | 202 | 600 | 2700 |
| 36 | M9B138 | M9A138 | M9C138 | M9W138 | 0.680 | 17.27 | 171 | 250 | 600 | 2700 |

2.5 mm Breakout Cables are also available.

Micro Loose Tube Breakout Style Cable

Loose Tube – Outdoor, Indoor/Outdoor OFN & Indoor/Outdoor Riser Rated

Applications

- Ducts between buildings (above or below frost lines)
- Lashed aerial
- Telecommunications and data trunk

Product Description

Easy handling and termination of a breakout style cable. Loose buffer dimensions compatible with standard connectors (900 µm). Waterblocking gel for moisture protection. Breakout kits not required for connectorization.

| | |
|--|-------------------------------------|
| Jacket Material | |
| Outdoor | PE |
| Riser | PVC |
| General Purpose | TPE |
| Buffer tube | |
| Outdoor + Riser | PBT |
| Strength Elements | |
| | Aramid Yarn |
| Strength Member(s) | |
| | Upjacketed Aramid |
| Color Codes (Jacket & Fibers) | |
| | Per EIA/TIA 598-A, see page 10.2 |
| Jacket Color | |
| | Black |

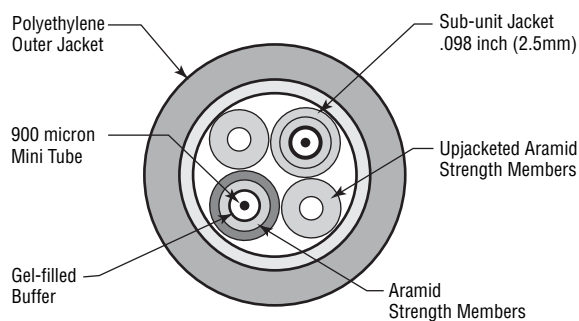
Ratings

| | |
|------------------------|---------|
| Riser | |
| UL Type | OFNR |
| cUL Type | OFN FT4 |
| Flame Resistance | UL 1666 |
| General Purpose | |
| UL/cUL Type | OFN |
| Flame Resistance | UL 1581 |

Specifications

| | |
|---------------------------------------|----------------------|
| Temperature Range | |
| Storage | -40 to +70°C |
| Operating | -20 to +70°C |
| Crush Resistance (EIA-455-41) | |
| | 600 N/cm |
| Impact Resistance (EIA-455-25) | |
| | 20 Impacts @ 1.0 N-m |
| Min. Bend Radius | |
| Installation | 20 x OD |
| Long Term | 15 x OD |
| Optical Specifications | |
| | See page 10.2 |

Fiber Bundle Detail



Micro Loose Tube Breakout Style Cable

Loose Tube – Outdoor, Indoor/Outdoor OFN & Indoor/Outdoor Riser Rated (*continued*)

| No. of Fibers | Belden Part Number | | | | Outside Diameter | | Weight | | Max. Install Load | |
|--------------------------------|------------------------------|----------------------------|-----------------------------|-------------------------|------------------|-------|------------|-------|-------------------|------|
| | 62.5 / 125µm Std. / 1 Gbe | 50 / 125µm Std. / 1 Gbe | 50 / 125µm 10 Gbe – 300M | Single-mode Enhanced | Inch | mm | Lbs./1000' | kg/km | Lbs. | N |
| Micro Loose Tube Series | | | | | | | | | | |
| Outdoor | | | | | | | | | | |
| 1 | M9B700 | M9A700 | M9C700 | M9W700 | 0.340 | 8.64 | 41 | 61 | 330 | 1468 |
| 2 | M9B701 | M9A701 | M9C701 | M9W701 | 0.360 | 9.14 | 41 | 61 | 345 | 1535 |
| 4 | M9B702 | M9A702 | M9C702 | M9W702 | 0.360 | 9.14 | 39 | 58 | 285 | 1267 |
| 6 | M9B703 | M9A703 | M9C703 | M9W703 | 0.418 | 10.62 | 54 | 80 | 405 | 1801 |
| 8 | M9B704 | M9A704 | M9C704 | M9W704 | 0.478 | 12.14 | 76 | 113 | 600 | 2700 |
| 12 | M9B705 | M9A705 | M9C705 | M9W705 | 0.614 | 15.60 | 129 | 192 | 600 | 2700 |
| Indoor/Outdoor OFN | | | | | | | | | | |
| 1 | M9B720 | M9A720 | M9C720 | M9W720 | 0.344 | 8.74 | 50 | 74 | 330 | 1468 |
| 2 | M9B721 | M9A721 | M9C721 | M9W721 | 0.364 | 9.25 | 51 | 76 | 345 | 1535 |
| 4 | M9B722 | M9A722 | M9C722 | M9W722 | 0.364 | 9.25 | 49 | 73 | 285 | 1267 |
| 6 | M9B723 | M9A723 | M9C723 | M9W723 | 0.424 | 10.72 | 68 | 101 | 405 | 1801 |
| 8 | M9B724 | M9A724 | M9C724 | M9W724 | 0.482 | 12.24 | 77 | 115 | 600 | 2700 |
| 12 | M9B725 | M9A725 | M9C725 | M9W725 | 0.618 | 15.70 | 130 | 193 | 600 | 2700 |
| Indoor/Outdoor Riser | | | | | | | | | | |
| 1 | M9B740 | M9A740 | M9C740 | M9W740 | 0.352 | 8.94 | 54 | 80 | 330 | 1468 |
| 2 | M9B741 | M9A741 | M9C741 | M9W741 | 0.372 | 9.45 | 55 | 82 | 345 | 1535 |
| 4 | M9B742 | M9A742 | M9C742 | M9W742 | 0.372 | 9.45 | 51 | 76 | 285 | 1267 |
| 6 | M9B743 | M9A743 | M9C743 | M9W743 | 0.432 | 10.97 | 74 | 110 | 405 | 1801 |
| 8 | M9B744 | M9A744 | M9C744 | M9W744 | 0.490 | 12.45 | 94 | 140 | 600 | 2700 |
| 12 | M9B745 | M9A745 | M9C745 | M9W745 | 0.626 | 15.90 | 151 | 229 | 600 | 2700 |

Please contact the Technical Support Group for proper connectivity integration and installation guidance.