

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.

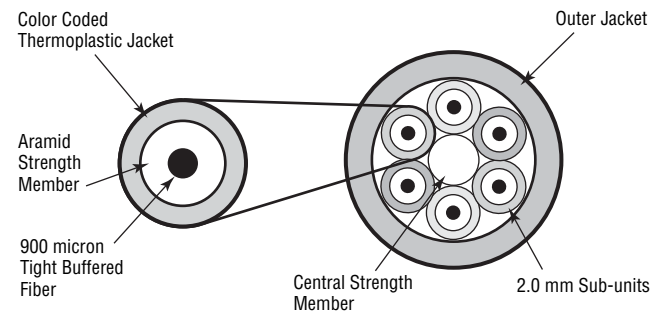
Min. Bend Radius

| | |
|--------------|---------|
| 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 |

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.
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

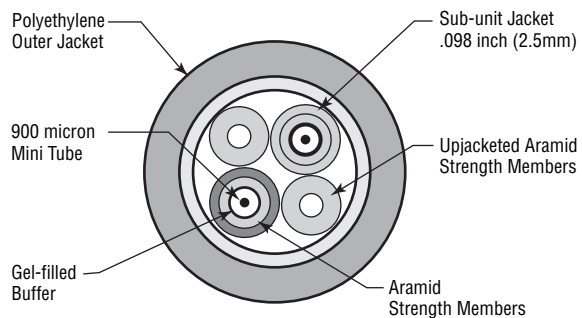
Min. Bend Radius

| | |
|--------------|---------|
| 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.

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.