

## Distribution Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated

### Applications

- Low to high fiber count requirements
- In-building backbone
- Fiber-to-the-desk applications
- Computer room

### Product Description

Flexible thermoplastic jacket provides excellent handling characteristics. Fibers and cable sub-units are color coded for easy identification. Length markings in meters for easy determination of cable length. Full dielectric construction, no grounding required. For Riser offering, MSHA approved cables are available.

#### Jacket Material

Riser & Non-unitized Plenum	PVC
Unitized Plenum	PVDF
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 $\mu\text{m}$	Orange (Green for LSZH only)
50/125 $\mu\text{m}$ / 1 Gbe	Orange
50/125 $\mu\text{m}$ / 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

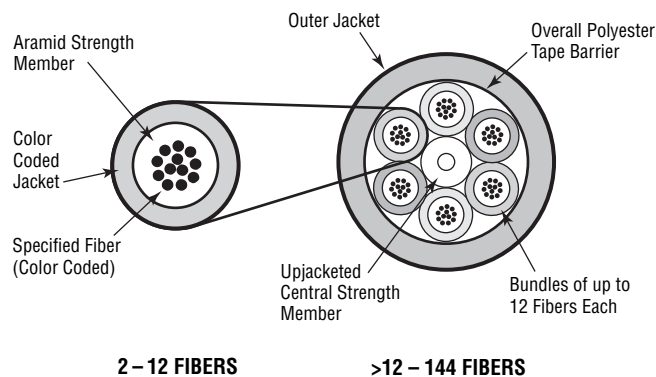
**Cyclic Flexing** (EIA-455-104) 2000 cycles, min.

#### Min. Bend Radius

Installation	15 x OD
Long Term	10 x OD

**Optical Specifications** See page 10.2

### Fiber Bundle Detail



2 – 12 FIBERS

>12 – 144 FIBERS

**Distribution Cable**Tight 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

**Distribution Cable Series**

<b>Riser (NEC/CEC OFNR/OFN FT4)</b>										
2	M9B037	M9A037	M9C037	M9W037	0.184	4.67	13	19	180	801
4	M9B038	M9A038	M9C038	M9W038	0.200	5.08	16	24	195	867
6	M9B039	M9A039	M9C039	M9W039	0.220	5.59	19	28	270	1201
8	M9B040	M9A040	M9C040	M9W040	0.235	5.97	22	33	270	1201
12	M9B042	M9A042	M9C042	M9W042	0.255	6.48	27	40	300	1334
24	M9B601*	M9A601*	M9C601*	M9W601*	0.325	8.26	42	63	390	1735
24	M9B602	M9A602	M9C602	M9W602	0.496	12.60	83	124	960	4270
36	M9B604	M9A604	M9C604	M9W604	0.644	16.36	137	204	1440	6405
48	M9B606	M9A606	M9C606	M9W606	0.627	15.93	131	195	945	4203
72	M9B609	M9A609	M9C609	M9W609	0.750	19.10	195	290	1350	6005
96	M9B622	M9A622	M9C622	M9W622	0.895	22.70	290	432	1983	8820
144	M9B619	M9A619	M9C619	M9W619	0.964	24.49	314	467	2745	12210

<b>Composite Riser Cables</b>										
6xSM/12x62.5	M96992									
12xSM/12x62.5	M96963									
6xSM/12x50	M96909									
12xSM/12x50	M96908									

<b>Plenum (NEC/CEC OFNP/OFN FT6)</b>										
2	M9B043	M9A043	M9C043	M9W043	0.184	4.67	14	21	180	801
4	M9B044	M9A044	M9C044	M9W044	0.174	4.42	13	19	195	867
6	M9B045	M9A045	M9C045	M9W045	0.190	4.83	16	24	270	1201
8	M9B046	M9A046	M9C046	M9W046	0.222	5.64	19	28	270	1201
12	M9B048	M9A048	M9C048	M9W048	0.225	5.72	22	33	300	1334
24	M9B611*	M9A611*	M9C611*	M9W611*	0.330	8.38	40	60	390	1735
24	M9B612	M9A612	M9C612	M9W612	0.493	12.52	89	132	1263	5618
36	M9B614	M9A614	M9C614	M9W614	0.594	15.09	134	199	1913	8509
48	M9B616	M9A616	M9C616	M9W616	0.599	15.21	131	195	1245	5538
72	M9B620	M9A620	M9C620	M9W620	0.754	19.15	197	293	2093	9310
96	M9B623	M9A623	M9C623	M9W623	0.904	22.96	268	399	2160	9608
144	M9B621	M9A621	M9C621	M9W621	1.047	26.59	365	543	3645	16213

<b>Composite Plenum Cables</b>										
6xSM/6x62.5	M97174									
6xSM/12x62.5	M97041									
12xSM/12x62.5	M97219									
6xSM/6x50	M97412									
6xSM/12x50	M97411									
12xSM/12x50	M96780									

<b>LSZH (NEC/CEC OFNR/OFN FT4)</b>										
2	M9B100	M9A100	M9C100	M9W100	0.184	4.70	15	22	180	800
4	M9B101	M9A101	M9C101	M9W101	0.200	5.10	17	25	195	867
6	M9B102	M9A102	M9C102	M9W102	0.220	5.60	21	31	270	1201
8	M9B103	M9A103	M9C103	M9W103	0.235	6.00	24	36	270	1201
12	M9B104	M9A104	M9C104	M9W104	0.255	6.50	29	43	300	1334
16	M9B105	M9A105	M9C105	M9W105	0.347	8.80	43	63	315	1400
24	M9B107	M9A107	M9C107	M9W107	0.386	9.80	54	79	450	2000
36	M9B111	M9A111	M9C111	M9W111	0.798	20.00	214	313	1619	7200
48	M9B112	M9A112	M9C112	M9W112	0.835	21.20	237	347	1619	7200
72	M9B114	M9A114	M9C114	M9W114	0.883	22.40	270	395	1619	7200
96	M9B116	M9A116	M9C116	M9W116	0.973	24.70	364	532	1619	7200
144	M9B120	M9A120	M9C120	M9W120	1.087	27.60	384	561	1619	7200

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.  
Construction for LSZH cables differs from the drawing. Alternative fiber counts are available.

\*Single jacket design.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • [www.belden.com](http://www.belden.com)

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