

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 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

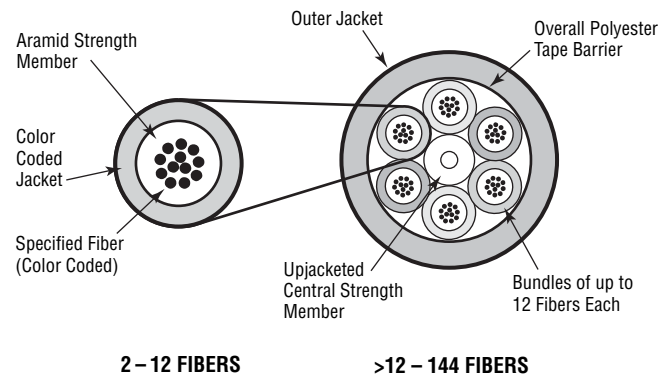
Cyclic Flexing (EIA-455-104) 2000 cycles, min.

Min. Bend Radius

Installation	15 x OD
Long Term	10 x OD

Optical Specifications See page 10.2

Fiber Bundle Detail



2 – 12 FIBERS

>12 – 144 FIBERS

Distribution 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

Distribution Cable Series**Riser (NEC/CEC OFNR/OFN FT4)**

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

Composite Riser Cables

6xSM/12x62.5	M96992
12xSM/12x62.5	M96963
6xSM/12x50	M96909
12xSM/12x50	M96908

Plenum (NEC/CEC OFNP/OFN FT6)

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

Composite Plenum Cables

6xSM/6x62.5	M97174
6xSM/12x62.5	M97041
12xSM/12x62.5	M97219
6xSM/6x50	M97412
6xSM/12x50	M97411
12xSM/12x50	M96780

LSZH (NEC/CEC OFNR/OFN FT4)

2	M9B100	M9A100	M9C100	M9W100	0.184	4.67	15	22	180	800
4	M9B101	M9A101	M9C101	M9W101	0.200	5.08	17	25	195	867
6	M9B102	M9A102	M9C102	M9W102	0.220	5.59	21	31	270	1201
8	M9B103	M9A103	M9C103	M9W103	0.235	5.97	24	36	270	1201
12	M9B104	M9A104	M9C104	M9W104	0.255	6.48	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

Construction for LSZH cables differs from the drawing. Alternative fiber counts are available.

*Single jacket design.

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

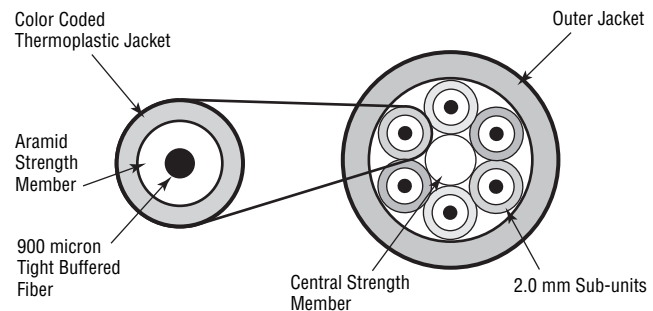
Ratings

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.