

## B9C042T Fiber - Indoor/Outdoor Distribution Cable - Riser



For more Information  
please call

1-800-Belden1



### General Description:

FiberExpress Distribution Cable, 12-Fiber, OM3 OFNR, Tight Buffer, Indoor & Outdoor Rated with UV Resistant Black Jacket, High flexibility for backbone and horizontal applications.

### Physical Characteristics (Overall)

Product Family - Plenum:

Fiber Count	Type	OM1 MM 62.5/125 1 Gb	OM2 MM 50/125 1 Gb	OM3 MM 50/125 10 Gb 300m	OM4 MM 50/125 10 Gb 450m	OS2 SM
2	Indoor	B9B043	B9A043	B9C043	B9E043	B9W043
2	Indoor / Outdoor	B9B043T	B9A043T	B9C043T	B9E043T	B9W043T
4	Indoor	B9B044	B9A044	B9C044	B9E044	B9W044
4	Indoor / Outdoor	B9B044T	B9A044T	B9C044T	B9E044T	B9W044T
6	Indoor	B9B045	B9A045	B9C045	B9E045	B9W045
6	Indoor / Outdoor	B9B045T	B9A045T	B9C045T	B9E045T	B9W045T
8	Indoor	B9B046	B9A046	B9C046	B9E046	B9W046
8	Indoor / Outdoor	B9B046T	B9A046T	B9C046T	B9E046T	B9W046T
12	Indoor	B9B048	B9A048	B9C048	B9E048	B9W048
12	Indoor / Outdoor	B9B048T	B9A048T	B9C048T	B9E048T	B9W048T
24*	Indoor	B9B611	B9A611	B9C611	B9E611	B9W611
24*	Indoor/Outdoor	B9B611T	B9A611T	B9C611T	B9E611T	B9W611T
24	Indoor	B9B612	B9A612	B9C612	B9E612	B9W612
24	Indoor/Outdoor	B9B612T	B9A612T	B9C612T	B9E612T	B9W612T
36	Indoor	B9B614	B9A614	B9C614	B9E614	B9W614
36	Indoor/Outdoor	B9B614T	B9A614T	B9C614T	B9E614T	B9W614T
48	Indoor	B9B616	B9A616	B9C616	B9E616	B9W616
48	Indoor/Outdoor	B9B616T	B9A616T	B9C616T	B9E616T	B9W616T
72	Indoor	B9B620	B9A620	B9C620	B9E620	B9W620
72	Indoor/Outdoor	B9B620T	B9A620T	B9C620T	B9E620T	B9W620T
96	Indoor	B9B623	B9A623	B9C623	B9E623	B9W623
96	Indoor/Outdoor	B9B623T	B9A623T	B9C623T	B9E623T	B9W623T
144	Indoor	B9B621	B9A621	B9C621	B9E621	B9W621
144	Indoor/Outdoor	B9B621T	B9A621T	B9C621T	B9E621T	B9W621T

\* Single jacket design

Product Family - Riser:

Fiber Count	Type	OM1 MM 62.5/125 1 Gb	OM2 MM 50/125 1 Gb	OM3 MM 50/125 10 Gb 300m	OM4 MM 50/125	OS2 SM
2	Indoor	B9B037	B9A037	B9C037	B9E037	B9W037
2	LSZH In/ Outdoor	B9B100	B9A100	B9C100	B9E100	B9W100
2	Indoor / Outdoor	B9B037T	B9A037T	B9C037T	B9E037T	B9W037T
4	Indoor	B9B038	B9A038	B9C038	B9E038	B9W038
4	LSZH In/ Outdoor	B9B101	B9A101	B9C101	B9E101	B9W101
4	Indoor / Outdoor	B9B038T	B9A038T	B9C038T	B9E038T	B9W038T
6	Indoor	B9B039	B9A039	B9C039	B9E039	B9W039
6	LSZH In/ Outdoor	B9B102	B9A102	B9C102	B9E102	B9W102
6	Indoor / Outdoor	B9B039T	B9A039T	B9C039T	B9E039T	B9W039T
8	Indoor	B9B040	B9A040	B9C040	B9E040	B9W040
8	LSZH In/ Outdoor	B9B103	B9A103	B9C103	B9E103	B9W103
8	Indoor / Outdoor	B9B040T	B9A040T	B9C040T	B9E040T	B9W040T
12	Indoor	B9B042	B9A042	B9C042	B9E042	B9W042
12	LSZH In/ Outdoor	B9B104	B9A104	B9C104	B9E104	B9W104
12	Indoor / Outdoor	B9B042T	B9A042T	B9C042T	B9E042T	B9W042T
16	LSZH In/ Outdoor	B9B105	B9A105	B9C105	B9E105	B9W105
24	Indoor	B9B602	B9A602	B9C602	B9E602	B9W602
24	Indoor / Outdoor	B9B602T	B9A602T	B9C602T	B9E602T	B9W602T
24*	Indoor	B9B601	B9A601	B9C601	B9E601	B9W601

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24*	LSZH In/ Outdoor	B9B107	B9A107	B9C107	B9E107	.	.	B9W107
24*	Indoor / Outdoor	B9B601T	B9A601T	B9C601T	B9E601T	.	.	B9W601T
36	Indoor	B9B604	B9A604	B9C604	B9E604	.	.	B9W604
36	LSZH In/ Outdoor	B9B111	B9A111	B9C111	B9E111	.	.	B9W111
36	Indoor / Outdoor	B9B604T	B9A604T	B9C604T	B9E604T	.	.	B9W604T
48	Indoor	B9B606	B9A606	B9C606	B9E606	.	.	B9W606
48	LSZH In/ Outdoor	B9B112	B9A112	B9C112	B9E112	.	.	B9W112
48	Indoor / Outdoor	B9B606T	B9A606T	B9C606T	B9E606T	.	.	B9W606T
72	Indoor	B9B609	B9A609	B9C609	B9E609	.	.	B9W609
72	LSZH In/ Outdoor	B9B114	B9A114	B9C114	B9E114	.	.	B9W114
72	Indoor / Outdoor	B9B609T	B9A609T	B9C609T	B9E609T	.	.	B9W609T
96	Indoor	B9B622	B9A622	B9C622	B9E622	.	.	B9W622
96	Indoor/Outdoor	B9B922T	B9A622T	B9C622T	B9E622T	B9W622T		
96	LSZH In/ Outdoor	B9B116	B9A116	B9C116	B9E116	.	.	B9W116
144	Indoor	B9B619	B9A619	B9C619	B9E619	.	.	B9W619
144	Indoor/Outdoor	B9B619T	B9A619T	B9C619T	B9E619T	B9W619T		
144	LSZH In/ Outdoor	B9B120	B9A120	B9C120	B9E120	.	.	B9W120
*Single	jacket design							

**Fiber Type:** 50 Micron (OM3)

**Number of Fibers:** 12

**Core Diameter:** 50

**Clad Diameter:** 125

**Primary Coating Material:** 250

### Outer Jacket

**Outer Jacket Material:**

**Outer Jacket Material**  
PVC - Polyvinyl Chloride

**Outer Jacket Color:** Black

### Strength Member

**Strength Member Material:** Aramid Yarn

### Mechanical Characteristics (Overall)

**Storage Temperature Range:** -40°C To +75°C

**Installation Temperature Range:** -20°C To +70°C

**Operating Temperature Range:** -40°C To +70°C

**Bulk Cable Weight:** 26 lbs/1000 ft.

**Min. Bend Radius/Minor Axis:** 3.600 in.

**Min. Bend Radius for Long Term Application:** 2.400 in.

**Max. Load for Installation:** 303 lbs.

**Max. Load for Long Term Application:** 45 lbs.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** OFNR

**CEC/(UL) Specification:** OFN

**EU Directive 2011/65/EU (ROHS II):** Yes

**EU Directive 2000/53/EC (ELV):** Yes

**EU Directive 2002/95/EC (RoHS):** Yes

**EU RoHS Compliance Date (mm/dd/yyyy):** 08/01/2008

**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

### Flame Test

**UL Flame Test:** UL1666 Riser

**CSA Flame Test:** FT4

## B9C042T Fiber - Indoor/Outdoor Distribution Cable - Riser

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes - Black only, when supported by messenger wire.
Suitability - Burial:	Yes
Sunlight Resistance:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Optical Characteristics (Overall)

Maximum Attenuation @ 850nm:	3.0 dB/km
Maximum Attenuation @ 1300nm:	1.2 dB/km
Minimum Bandwidth @ 850nm:	1500 MHz*km
Minimum Bandwidth @ 1300nm:	500 MHz*km
Maximum Gigabit Ethernet Length @ 850nm:	1000 meters
Maximum Gigabit Ethernet Length @ 1300nm:	550 meters

### Fiber Coding MLT EMEA:

Fiber/Tube No.	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Rose
12	Aqua

### Related Documents:

[Distribution Cable.pdf](#) - Distribution Cable technical information.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
B9C042T	1 FT	0.040 LB	BLACK		DISTR 12F OM3 OFNR TB

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