

## B9W042T Fiber - Indoor/Outdoor Distribution Cable - Riser



For more Information  
please call

1-800-Belden1



### General Description:

FiberExpress Distribution Cable, 12-Fiber, OS2 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

## B9W042T Fiber - Indoor/Outdoor Distribution Cable - Riser

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:** SM, (OS2)

**Number of Fibers:** 12

**Mode Field Diameter @ 1310nm:** 9.2

**Clad Diameter:** 125

**Primary Coating Diameter:** 250

**Secondary Coating Diameter:** 900

### Outer Jacket

**Outer Jacket Material:**

**Outer Jacket Material**  
PVC - Polyvinyl Chloride

**Outer Jacket Color:** Black

### Strength Member

**Strength Member Material:** Aramid Yarn

### Overall Cable

**Overall Nominal Diameter:** 0.290 in.

### 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:** 36 in.

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

**Max. Load for Installation:** 150 lbs.

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

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

**CEC/C(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

**MIL Order #39 (China RoHS):** Yes

## B9W042T Fiber - Indoor/Outdoor Distribution Cable - Riser

### Flame Test

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4

### 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
Non-Plenum Number:	B9W048T

### Optical Characteristics (Overall)

Maximum Attenuation @ 1310nm:	.8 dB/km
Maximum Attenuation @ 1550nm:	.5 dB/km
Maximum Gigabit Ethernet Length @ 1300nm:	5000 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

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
B9W042T	1 FT	0.041 LB	BLACK		DISTR 12F OS2 OFNR TB

Revision Number: 2    Revision Date: 08-12-2014

© 2015 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.