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**B9W812**



**Fiber - All Dielectric Cable - In/Outdoor Riser**

FiberExpress Single Jacket-All Dielectric Cable, 24-Fiber, OS2 OFNR, Loose Tube, Indoor & Outdoor Rated with UV Resistant Black Jacket, No grounding required, Suited for aerial lashing and underground conduit.

**For more Information  
Please call**

**1-800-Belden1**



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### Put Ups and Colors:

Item ##	Putup	Ship Weight	Color	Notes	Item Desc
B9W812	1 FT	0.067 LB	BLACK		REPLACED BY FDSL024RG

### Physical Characteristics (Overall)

**Product Family - Riser:**

Fiber Count	# Fibers/Tubes	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 500m	OS2 - SM
6	6	Indoor/Outdoor	B9B810	B9A810	B9C810	B9E810	B9W810
6	6	Outdoor	B9B510T	B9A510T	B9C510T	B9E510T	B9W510T
6	6	In/Outdoor/LSZH	B9B830	B9A830	B9C830	B9E830	B9W830
12	12	Indoor/Outdoor	B9B811	B9A811	B9C811	B9E811	B9W811
12	12	Outdoor	B9B511T	B9A511T	B9C511T	B9E511T	B9W511T
12	12	In/Outdoor/LSZH	B9B831	B9A831	B9C831	B9E831	B9W831
24	12	Indoor/Outdoor	B9B812	B9A812	B9C812	B9E812	B9W812
24	12	Outdoor	B9B500T	B9A500T	B9C500T	B9E500T	B9W500T
24	12	In/Outdoor/LSZH	B9B832	B9A832	B9C832	B9E832	B9W832
36	12	Indoor/Outdoor	B9B813	B9A813	B9C813	B9E813	B9W813
36	12	Outdoor	B9B502T	B9A502T	B9C502T	B9E502T	B9W502T
36	12	In/Outdoor/LSZH	B9B833	B9A833	B9C833	B9E833	B9W833

48	12	Indoor/Outdoor	B9B814	B9A814	B9C814	B9E814	. .	B9W814
48	12	Outdoor	B9B505T	B9A505T	B9C505T	B9E505T	. .	B9W505T
48	12	In/Outdoor/LSZH	B9B834	B9A834	B9C834	B9E834	. .	B9W834
72	12	Indoor/Outdoor	B9B815	B9A815	B9C815	B9E815	. .	B9W815
72	12	Outdoor	B9B507T	B9A507T	B9C507T	B9E507T	. .	B9W507T
96	12	Indoor/Outdoor	B9B816	B9A816	B9C816	B9E816	. .	B9W816
96	12	Outdoor	B9B513T	B9A513T	B9C513T	B9E513T	. .	B9W513T
144	12	Indoor/Outdoor	B9B817	B9A817	B9C817	B9E817	. .	B9W817
144	12	Outdoor	B9B509T	B9A509T	B9C509T	B9E509T	. .	B9W509T
216	12	Outdoor	B9B520T	B9A520T	B9C520T	B9E520T	. .	B9W520T

**Fiber Type:** SM, (OS2)  
**Number of Fibers:** 24  
**Mode Field Diameter @ 1310nm:** 9.2  
**Clad Diameter:** 125  
**Primary Coating Diameter:** 245  
**Buffer Tube Material:** Thermoplastic

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material

PVC - Polyvinyl Chloride

**Outer Jacket Color:** Black

#### Strength Member

**Strength Member Material:** Aramid Yarn, Fiberglass Epoxy Rod

#### Overall Cable

**Overall Nominal Diameter:** 0.510 in.

#### Mechanical Characteristics (Overall)

**Storage Temperature Range:** -40°C To +75°C  
**Installation Temperature Range:** -30°C To + 70°C  
**Operating Temperature Range:** -40°C To +70°C  
**Bulk Cable Weight:** 108 lbs/1000 ft.  
**Min. Bend Radius/Minor Axis:** 10.200 in.  
**Min. Bend Radius for Long Term Application:** 5.100 in.  
**Max. Load for Installation:** 600 lbs.  
**Max. Load for Long Term Application:** 200 lbs.

#### Applicable Specifications and Agency Compliance (Overall)

##### Applicable Standards & Environmental Programs

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

<b>CEC/C(UL) Specification:</b>	OFN
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	08/22/2008
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

### Flame Test

<b>UL Flame Test:</b>	UL1666 Riser
<b>C(UL) Flame Test:</b>	FT4
<b>CSA Flame Test:</b>	FT4

### Suitability

<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	Yes
<b>Suitability - Aerial:</b>	Yes - When supported by messenger wire
<b>Suitability - Burial:</b>	Yes
<b>Sunlight Resistance:</b>	Yes

### Plenum/Non-Plenum

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

<b>Maximum Attenuation @ 1310nm:</b>	.35 dB/km
<b>Maximum Attenuation @ 1550nm:</b>	.25 dB/km
<b>Maximum Gigabit Ethernet Length @ 1300nm:</b>	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

## Related Documents:

[Loose Tube Single Jacket All Dielectric.pdf](#) - Loose Tube Single Jacket All Dielectric technical information.

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