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**B9E831**



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

FiberExpress Single Jacket-All Dielectric Cable, 12-Fiber, OM4 OFNR-Zero Halogen, 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
B9E831	1 FT	0.082	BLACK		SJAD 12F OM4 OFNR-ZH LT

## 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

<b>Fiber Type:</b>	50 Micron (OM4)
<b>Number of Fibers:</b>	12
<b>Core Diameter:</b>	50
<b>Clad Diameter:</b>	125
<b>Primary Coating Material:</b>	245
<b>Buffer Tube Material:</b>	Thermoplastic

#### Outer Jacket

##### Outer Jacket Material:

###### Outer Jacket Material

FRPE - Flame Retardant Polyethylene

<b>Outer Jacket Ripcord:</b>	Yes
<b>Outer Jacket Color:</b>	Black

#### Strength Member

<b>Strength Member Material:</b>	Aramid Yarn, Fiberglass Epoxy Rod
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#### Overall Cable

<b>Overall Nominal Diameter:</b>	0.380 in.
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#### Mechanical Characteristics (Overall)

<b>Storage Temperature Range:</b>	-40°C To +75°C
<b>Installation Temperature Range:</b>	-30°C To + 70°C
<b>Operating Temperature Range:</b>	-40°C To +70°C
<b>Bulk Cable Weight:</b>	71 lbs/1000 ft.
<b>Min. Bend Radius/Minor Axis:</b>	7.600 in.
<b>Min. Bend Radius for Long Term Application:</b>	5.700 in.
<b>Max. Load for Installation:</b>	600 lbs.
<b>Max. Load for Long Term Application:</b>	200 lbs.

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

##### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	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>MIL Order #39 (China RoHS):</b>	Yes

### Flame Test

<b>UL Flame Test:</b>	UL1666 Riser
<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 @ 850nm:</b>	3.5 dB/km
<b>Maximum Attenuation @ 1300nm:</b>	1.2 dB/km
<b>Minimum Bandwidth @ 850nm:</b>	3500 MHz*km
<b>Minimum Bandwidth @ 1300nm:</b>	550 MHz*km
<b>Maximum Gigabit Ethernet Length @ 850nm:</b>	1000 meters
<b>Maximum Gigabit Ethernet Length @ 1300nm:</b>	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

Close

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