Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

B9B048T Fiber - Distribution Cable - Plenum Indoor/Outdoor

For more Information
please call

1-800-Belden1

RoHS COMPLIANT
ENVIRONMENTALLY FRIENDLY

General Description:

FiberExpress Distribution Cable, 12-Fiber, OM1 OFNP, 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

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:	62.5 Micron (OM1)
Number of Fibers:	12
Core Diameter:	62.5
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:	0.230 in.

Mechanical Characteristics (Overall)
Storage Temperature Range:	-40°C To +75°C
Installation Temperature Range:	0°C To +70°C
Operating Temperature Range:	-20°C To +70°C
Bulk Cable Weight:	35 lbs/1000 ft.
Min. Bend Radius/Minor Axis:	3.400 in.
Min. Bend Radius for Long Term Application:	2.300 in.
Max. Load for Installation:	240 lbs.
Max. Load for Long Term Application:	45 lbs.

Applicable Specifications and Agency Compliance (Overall)
Applicable Standards & Environmental Programs

NEC/(UL) Specification:	OFNP
CEC/C(UL) Specification:	OFNP
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

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Flame Test

UL Flame Test:	UL910 Plenum
CSA Flame Test:	FT6

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):	Yes
Non-Plenum Number:	B9B042T

Optical Characteristics (Overall)

Maximum Attenuation @ 850nm:	3.5 dB/km
Maximum Attenuation @ 1300nm:	1.2 dB/km
Minimum Bandwidth @ 850nm:	200 MHz*km
Minimum Bandwidth @ 1300nm:	600 MHz*km
Maximum Gigabit Ethernet Length @ 850nm:	300 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
B9B048T	1 FT	0.035 LB	BLACK		REPLACED BY FD1D012P9

Mouser Electronics

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Belden Wire & Cable:

  B9B048T