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TECHNICAL DATA SHEET INDOOR CABLE Zipcord Bare Fiber Cable

FCA-12-X-DBF-X-EX / 2 Fibers

Description

Waveoptics Zipcord Bare Fiber Cables are designed for indoor applications, general installation purposes, data centers or patch cord production, where consistency and uniformity are required for fast terminations. 1.2mm x 2.5mm outer dimensions design enables greater density.

Aramid yarn as a strength member to provide excellent tensile strength during installation.

The following jacket materials are available:

PVC RISER: used in vertical installations. Prevents the spread of flames to higher floors, in case of fire. Riser cable jackets are rated for flame generation and are held to a lower standard compared to plenum cables.

PVC PLENUM: ideal for applications in spaces with good air circulation, such as low ceilings or under elevated floors. Resistant to fire and produces low smoke when burned. Cable jackets used in plenum spaces are rated for both flame and smoke generation.



ZIPCORD BF CABLE 1.2MM OFNR 02F G652D S EX

Quality

Waveoptics is a ISO-9001: 2015 certified company.

We meet or exceed the following international standards:

- Telcordia GR-409: Generic requirements for indoor fiber optic cable.
- IEC 60794: Basic requirements for optical fiber and cable elements.

Each Waveoptics cable meets the highest quality standards in the industry and contains a compliance certificate in which the performed tests in our quality laboratory are physically attached.

Applications:



Indoor



Protections:







Retardant

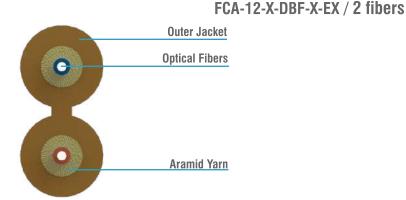
Riser Cable Plenum Cable





TECHNICAL DATA SHEET INDOOR CABLE

Dimensions and Properties



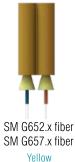
Design	
Fiber count	2
Fiber color code	1 2
Dielectric strength member	Aramid yarn
Outer jacket material*	PVC Riser / PVC Plenum
Reel length	2 km & 4 km (6,562 ft & 13,123 ft) (±5%)
Temperature range	
Operation	0°C to 70°C (32°F to 158°F)
Installation	0°C to 60°C (32°F to 140°F)
Storage / transport	-40°C to 70°C (-40°F to 158°F)
Mechanical properties	
Tensile strength (N) (Ibf) long-term / short-term	12 (2.7) / 40 (9)
Maximum crush resistance	350 N/100mm
Minimum bend radius (operation / installation)	25 mm (1 in) / 50 mm (2 in)

Note: Waveoptics recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results. *LSZH jacket also available upon request.

Outer jacket material	Nominal outer dimensions (mm) (in) $(\pm 5\%)$	Jacket thickness (mm) (in)	Cable weight (kg/km) (lb/kft) (±10%)
PVC Riser	1.2 x 2.5 (0.05 x 0.1)	0.2 (0.012)	2.9 (2)
PVC Plenum	1.2 x 2.5 (0.05 x 0.1)	0.3 (0.012)	3.3 (2.2)

Outer Jacket Color Guide

SINGLE MODE FIBER



MULTI MODE FIBER





MM 0M3 fiber MM 0M4 fiber

Aqua



MM 0M5 fiber

Lime Green

Folio P

www.waveoptics.net info@waveoptics.net

-038-01-EN



TECHNICAL DATA SHEET INDOOR CABLE

Printed Information on Outer Jacket

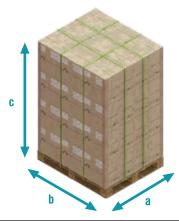
FCA-12-X-DBF-X-EX / 2 fibers

=/MONTH//YEAR/ WAVEOPTICS= =ZIPCORD BARE FIBER= =/FIRE RATING/= =/FIBER TYPE/= =/FIBER COUNT/= =/METERS*/ M= =/LOT #/=

- Printed in black, except for dark colored cables, which will be printed in white. Marking interval: every 1 meter + 1% or 2 feet + 1%. The marking can be changed according to customer requirements. ٠
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- *The standard marking interval is every 1 meter, in case the marking requirement is in feet, a notification on the purchase order would be necessarv.

Reel Dimensions and Pallet Packaging Information





	Outer jacket material	Nominal outer dimensions (mm) (in) (±5%)	Reel length (m) (ft) (±5%)	A (mm) (in) (±5%)	B (mm) (in) (±5%)	Reel weight (kg) (lb) $(\pm 10\%)$	Pallet capacity (m) (ft) (±5%)		b (mm) (in) (±5%)	c (mm) (in) (±5%)
	PVC Riser	1.2 x 2.5 (0.05 x 0.1)	2,000 (6,562)	365 (14)	204 (8)	7.3 (16.2)	96,000 (314,961)	1,100 (43)	1,200 (47)	1,704 (67)
			4,000 (13,123)			13.2 (29.1)	192,000 (629,921)			
			2,000 (6,562)			8.1 (17.9)	96,000 (314,961)			
		4,000 (13,123)			14.7 (32.4)	192,000 (629,921)				

Note 1: please contact your sales agent for different reel lengths available. *Note 2: all documentation included in the packaging is in english, if a different language is needed, please contact your sales agent.



Test report certificate

3.- Product description (weight, dimensions, lot and part number)

www.waveoptics.net info@waveoptics.net

Folio PI-038-01-EN

Last Review 2/17/2021



TECHNICAL DATA SHEET INDOOR CABLE

Transmision Performance by Fiber Type

FCA-12-X-DBF-X-EX / 2 fibers

Fiber type	Single Mode				Multi Mode				
Waveoptics fiber type	G652.D	G657.A1	G657.A2	G657.B3	OM1	0M2	0M3	OM4	0M5
Waveoptics fiber code	F	Т	E	N	В	L	М	Р	V
OFS® fiber type	G652.D	AllWave® FLEX	AllWave® FLEX+	EZ-Bend®	62.5 um Laser Optimized	50 um Graded Index	LaserWave® FLEX 300	LaserWave® FLEX 550	LaserWave® WideBand
OFS [®] fiber code	1	2	3	6	5	8	9	0	4
Wavelength (nm)	1310/1550				850/1300				
Max. attn. (dB/km) (1)	0.4/0.3	0.4/0.3	0.4/0.3	0.4/0.3	3.4/1	3/1			
Min. bandwidth (MHz*km) (2)	' ' ' '				200/500	750/500	1500/500	3500/500	3500/500
1-Gigabit ethernet distance (m) (3)	-				300	750	> 550	> 550	> 550
10-Gigabit ethernet distance (m) (4)	-				_	150	300	400	400
40/100-Gigabit ethernet distance (m) (5)	-				-	-	100/70	150/100	150/100
Cable marking specifications	G652.D	G657.A1	G657.A2	G657.B3	OM1	0M2	0M3	OM4	0M5
Natas									

Notes:

(1) Maximum attenuation after cabling process.

(2) OFL (overfilled launch) bandwidth measurement.

(3) 1-Gb/s at 850 nm transmissions based on IEEE 802.3z test protocol.

*For more information about the optical fibers, consult the corresponding data sheets.

Part Number Configuration

FCA-12-X-DBF-X-EX

Outer dimensions

12 - 1.2 x 2.5 mm

Waveoptics optical fiber type

- F SM G652.D T - SM G657.A1
- E SM G657.A2
- N SM G657.B3
- B MM 0M1
- L MM OM2 TRUE BEND
- M MM OM3 TRUE BEND
- P MM OM4 TRUE BEND
- V MM OM5 TRUE BEND

Optical cable compliance

- EX Waveoptics standard
- AC Buy American Act compliance

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OFS® optical fiber type

(4) 10-Gb/s at 850 nm transmissions based on IEEE 802.3ae test protocol.

(5) 40/100-Gb/s at 850 nm transmissions based on IEEE P802.3ba test protocol.

- 1 SM G652.D
- 2 AllWave® FLEX
- 3 AllWave® FLEX+
- $6 EZ-Bend^{\mathbb{R}}$
- 5 62.5 um Laser Optimized
- 8 50 um Graded Index
- 9 LaserWave® FLEX 300
- 0 LaserWave® FLEX 550
- 4 LaserWave® WideBand

Outer jacket material

- R PVC Riser
- P PVC Plenum

Note: please contact your Waveoptics distributor if you need any additional compliance or if you have questions about the part number configuration.

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