



Tight Buffer 900um Cable

FCA-09-X-S-X-XXX-EX / 01 Fiber

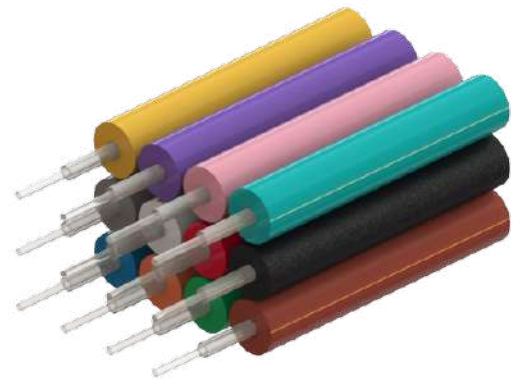
Description

Waveoptics Tight Buffer 900um Cable is designed for indoor applications, such as jumpers, pigtails, launch (pulse) boxes commonly used in behind-the-faceplate applications, data centers, testing environments, among others. Preferred in production environments, because of its consistent shrink-back and ease of stripping. The size of the tight buffer is compatible with existing tooling and also fits a vast number of connectors. Available in 12 standard jacket colors.

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.



Quality

Waveoptics is a ISO-9001: 2015 certified company.

We meet or exceed the following international standards:

- 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



Bend
Insensitive

Protections:



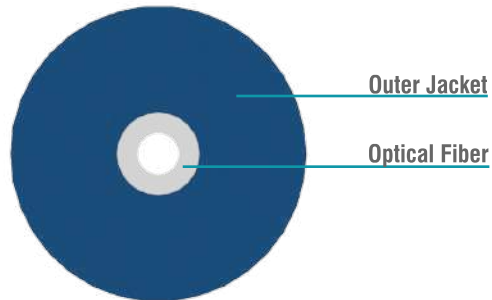
Flame
Retardant



Riser Cable



Plenum Cable

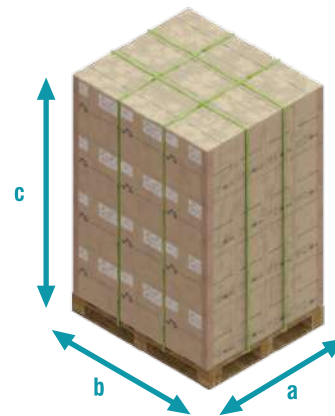
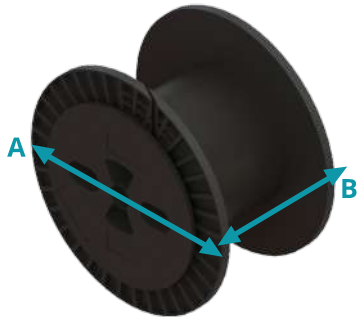
Dimensions and Properties

TIGHT BUFFER 900UM OFNR BLUE 01F G652.D S EX

Design	
Fiber count	1
Tight buffer material*	PVC Riser / PVC Plenum
Nominal outer diameter	0.9 mm (0.04 in) ($\pm 5\%$)
Reel length	2 km (6,562 ft), 4km (13,123 ft) ($\pm 5\%$)
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 (long-term / short-term)	3 N (0.67 lbf) / 6 N (1.35 lbf)
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.

Material	Weight (kg/km) (lb/kft) ($\pm 10\%$)
PVC Riser	0.84 (0.56)
PVC Plenum	0.97 (0.65)

Reel Dimensions and Pallet Packaging Information
FCA-09-X-S-X-XXX-EX / 1 fiber


Tight buffer material	Reel length (m) (ft) (±5%)	A (mm) (in) (±5%)	B (mm) (in) (±5%)	Reel weight (kg) (lb) (±10%)	Pallet capacity (m) (ft) (±5%)	a (mm) (in) (±5%)	b (mm) (in) (±5%)	c (mm) (in) (±5%)
PVC Riser	2,000 (6,562)	265 (10)	170 (7)	3.1 (6.8)	240,000 (787,402)	1,100 (43)	1,200 (47)	1,796 (71)
PVC Plenum				3.3 (7.4)				
PVC Riser	4,000 (13,123)	265 (10)	170 (7)	4.8 (10.6)	240,000 (787,402)	1,100 (43)	1,200 (47)	1,796 (71)
PVC Plenum				5.3 (11.7)				

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.

Packaging includes*:

- 1.- Reel handling instructions.
- 2.- Test report certificate.

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

Transmission Performance by Fiber Type
FCA-09-X-S-X-XXX-EX / 1 fiber

Fiber type	Single Mode				Multi Mode				
Waveoptics fiber type	G652.D	G657.A1	G657.A2	G657.B3	OM1	OM2	OM3	OM4	OM5
Waveoptics fiber code	F	T	E	N	B	L	M	P	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

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.

(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.

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

Part Number Configuration
FCA-09-X-S-X-XXX-EX
Waveoptics optical fiber type

 F - SM G652.D
 T - SM G657.A1
 E - SM G657.A2
 N - SM G657.B3
 B - MM OM1
 L - MM OM2 TRUE BEND
 M - MM OM3 TRUE BEND
 P - MM OM4 TRUE BEND

OFS® optical fiber type

 1 - SM G652.D
 2 - AllWave® FLEX
 3 - AllWave® FLEX+
 6 - EZ-Bend®
 5 - 62.5 um Laser Optimized
 8 - 50 um Graded Index
 9 - LaserWave® FLEX 300
 0 - LaserWave® FLEX 550

Jacket material

 R - PVC Riser
 P - PVC Plenum

Outer jacket color

 BLU - Blue
 ORA - Orange
 GRE - Green
 BRO - Brown
 SLA - Slate
 WHI - White
 RED - Red
 BLA - Black
 YEL - Yellow
 PUR - Violet
 PIN - Rose
 AQU - Aqua

Optical cable compliance

EX - Waveoptics standard

AC - Buy American Act compliance

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