

Distribution Tight Buffer Multimode Cable

Distribution Cable 2-24 Fibers, Indoor/Outdoor, Non-Jelly

Infinique's Distribution Tight Buffer Cables are suitable for indoor and outdoor applications. They are designed not just to save space and time but also to further simplify fiber management by eliminating the need for splicing the cables before entering buildings.

Being extremely flexible and metal-free, these cables are ideal for low fiber count applications such as duct, and riser indoor spaces. Multimode cables are available in OM1, OM2, OM3 and OM4 configurations.

To ensure water ingress, water blocking tape is applied and aramid yarn is longitudinally applied around the tight buffered fibers and then is enclosed in a protective outer jacket. Rip Cords are applied longitudinally to enable easy stripping of the cable during end preparation for testing and installation. For speedy installation and clear identification, the buffered fibers are distribution cable color coded in

Features and Benefits

- Reliable Performance
 - Gigabit Ethernet and 10 Gigabit Ethernet Performance
 - **Rugged Construction** OFNR UL Certified, Aramid Yarn for high tensile strength, extremely flexible, metal free, greater crush resistance, and water ingress protection
- Clear Identification
 Color coded Tubes, Fiber and Outer Jacket
- Speedy Installation

Simple fiber management and Ripcords for easy stripping

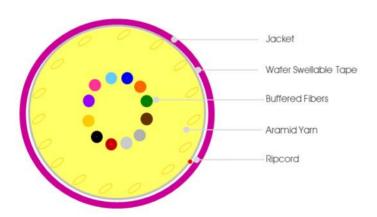
Challenging Applications

Duct, Riser and other challenging conditions

accordance with Telecordia standards. The outer jacket of the OM1 and OM2 is orange, OM3 is aqua and OM4 cable is violet. The cable is clearly meter marked with durable black ink. The cable can be custom made ranging from 2 to 24 fibers, and is suitable for Gigabit Ethernet and 10 Gigabit Ethernet Applications. The cable is UL Certified for OFNR standard ratings.

Both ends of the cable are capped to avoid water ingress and are accessible for testing. Cable is packed in fumigated wooden drums with angle rod support to take the cable load. All cable drums are accompanied with individual cable test report.

CABLE CONSTRUCTION





Distribution Tight Buffer Multimode Cable Distribution Cable 2-24 Fibers, Indoor/Outdoor, Non-Jelly

OPTICAL SPECIFICATIONS

			Multimada	Multime e de	Multipoodo	Multipa a da		
Fiber Type			Multimode 62.5/125	Multimode 50/125	Multimode 50/125 LOF	Multimode 50/125 LOF		
IEC 11801 classification		OM1	OM2	OM3	OM4			
ITU-T type			G.651	G.651	G.651	G.651		
		850 nm	≤ 3.5	≤ 2.8	≤ 2.8	≤ 2.8		
		1310 nm	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0		
Attenuation (dB/km max)		1550 nm						
		1625 nm						
		850 nm-1310	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05		
Bending Loss 1 tu		1550 nm		= 0.00				
Radius 20× Cab	le OD	1625 nm						
		850 nm	≥ 160	≥ 500	≥ 2000	≥ 3500		
Bandwidth MHz x	km	1310 nm	≥ 500	≥ 500	≥ 1200	≥ 1200		
		1285-1330 nm				200		
Chromatic Dispersion (ps/(nm*km))		1550 nm						
		1625 nm						
Zero Dispersion W	(avelenath (nm)	10201111						
	ope (ps/(nm²km))							
		TIONS						
			(0.5.0.5	50 . 0 5	50 . 0 5	50.05		
Core Diameter (µ			62.5±2.5	50±2.5	50±2.5	50±2.5		
Cladding Diame	u /		125 ±1.0	125 ±1.0	125 ±1.0	125 ±1.0		
Coating Diamete			245 ±10	245 ±10	245 ±10	245 ±10		
APPLICABLE	E DISTANCES							
Gigabit Ethernet	Distance (m)	Sx (850 nm)	300	750	1000	1100		
		Lx (1310 nm)	550	600	600	600		
		Sx (850 nm)	33	150	300	550		
10 Gigabit Ethern	net Distance (m)	Lx (1310 nm)		100				
These are the an	nlicable distances at (,	distances increase for	lower frequencies				
STANDARDS		given nequencies,		iowei liequei cies.				
STANDARD)		TH 5 (0, 100 //50110)					
Performance				01, EN 50173-X, ICEA-69				
						ON, ATM, Fibre Channel, FDDI		
Differential Mode	Differential Mode Delay (DMD)			IEC 60793-1-49 To measure Effective Modal Bandwidth (EMB)				
			IEC 60794-1-2 F5 Standards					
Water Blocking			IEC 60794-1-2 F5 Sto		()			
Water Blocking Color Coding								
Color Coding	/ LSOH Emissions / Nor	n-Corrosive	IEC 60304 Telcordia	andards I-Bellcore, TIA-598C Star		2 and EN 50267		
Color Coding Flame Retardant	/ LSOH Emissions / Nor	n-Corrosive	IEC 60304 Telcordia	andards I-Bellcore, TIA-598C Star	ndards	2 and EN 50267		
Color Coding Flame Retardant	/ LSOH Emissions / Nor	n-Corrosive	IEC 60304 Telcordia	andards I-Bellcore, TIA-598C Star	ndards	2 and EN 50267		
Color Coding Flame Retardant	/ LSOH Emissions / Nor Standard		IEC 60304 Telcordia	andards I-Bellcore, TIA-598C Star	ndards			
Color Coding Flame Retardant TEST DATA			IEC 60304 Telcordia IEC 60332-1 and EN Specified Value	andards I-Bellcore, TIA-598C Star	idards and EN 50268 / IEC 60754-:			
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Color Coding Flame Retardant TEST DATA Test Tension Crush Performance Impact Resistance Bending Radius Repeated Bending	Standard IEC 60794-1-2-E1 IEC 60794-1-2-E1 IEC 60794-1-2-E3 IEC 60794-1-2-E4 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E6	Mandrel Dian Length under Applied tensil Duration: 5 m Applied load: Duration of lo Height of imp Drop hamme No. of impact Length: ≥ 100 Mandrel : 10 Sheave Diam Applied Load No. of Flexing Speed Length: 2 me Load: 5 Kg No. of Flexing	IEC 60304 Telcordia IEC 60332-1 and EN Specified Value heter: 30 x Cable OD tension: ≥ 50 m e load: 1500 N inutes 500N/85mm ading: 5 minutes act: 0.5m r mass: 0.5kg ts: 1 m × Cable OD eter: 15 x Cable OD : 0.5kg Cycles: 5 Cycles ters Cycles: 5 Cycles	andards -Bellcore, TIA-598C Star I 50266-2-1 / IEC 61034 PASS Attenuation cha The optical fibe PASS Attenuation cha The optical fibe	idards and EN 50268 / IEC 60754- Acceptance ange $< = 0.05$ dB r shall have no distinct addit ange $< = 0.05$ dB r shall have no distinct addit ange $< = 0.05$ dB r shall have no distinct addit ange $< = 0.05$ dB r shall have no distinct addit	 Criteria ional attenuation and strain. 		
Color Coding Flame Retardant TEST DATA Test Tension Crush Performance Impact Resistance Bending Radius Repeated Bending	Standard IEC 60794-1-2-E1 IEC 60794-1-2-E1 IEC 60794-1-2-E3 IEC 60794-1-2-E4 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E6	Mandrel Dian Length under Applied tensil Duration: 5 m Applied load: Duration of lo Height of imp Drop hamme No. of impact Length: ≥ 100 Mandrel : 10 Sheave Diam Applied Load No. of Flexing Speed Length: 2 me Load: 5 Kg No. of Flexing	IEC 60304 Telcordia IEC 60332-1 and EN Specified Value heter: 30 x Cable OD tension: ≥ 50 m e load: 1500 N inutes 500N/85mm ading: 5 minutes act: 0.5m r mass: 0.5kg ts: 1 m × Cable OD eter: 15 x Cable OD : 0.5kg Cycles: 5 Cycles t: 2 Seconds/Cycle ters	andards -Bellcore, TIA-598C Star I 50266-2-1 / IEC 61034 PASS Attenuation cha The optical fibe PASS Attenuation cha The optical fibe	indards and EN 50268 / IEC 60754- Acceptance ange $<= 0.05$ dB ir shall have no distinct addit ange $<= 0.05$ dB ir shall have no distinct addit	 Criteria ional attenuation and strain. 		
Color Coding Flame Retardant TEST DATA Test Tension Crush Performance Impact Resistance Bending Radius Repeated Bending Torsion Test	Standard IEC 60794-1-2-E1 IEC 60794-1-2-E1 IEC 60794-1-2-E3 IEC 60794-1-2-E4 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E6	Mandrel Dian Length under Applied tensil Duration: 5 m Applied load: Duration of lo Height of imp Drop hamme No. of impact Length: ≥ 10m Mandrel : 10 Sheave Diarm Applied Load No. of Flexing Flexing Speect Length: 2 me Load: 5 Kg No. of Flexing Twist Angle: ±	IEC 60304 Telcordia IEC 60332-1 and EN Specified Value heter: 30 x Cable OD tension: ≥ 50 m e load: 1500 N inutes 500N/85mm ading: 5 minutes act: 0.5m r mass: 0.5kg ts: 1 m × Cable OD eter: 15 x Cable OD : 0.5kg Cycles: 5 Cycles t: 2 Seconds/Cycle ters Cycles: 5 Cycles : 180° , Applied Load: 0	andards -Bellcore, TIA-598C Star I 50266-2-1 / IEC 61034 PASS Attenuation cha The optical fibe PASS Attenuation cha The optical fibe	indards and EN 50268 / IEC 60754- Acceptance ange $<= 0.05$ dB ir shall have no distinct addit ange $<= 0.05$ dB ir shall have no distinct addit	 Criteria ional attenuation and strain. 		
Color Coding Flame Retardant TEST DATA Test Tension Crush Performance Impact Resistance Bending Radius Repeated Bending Torsion Test Temperature	Standard IEC 60794-1-2-E1 IEC 60794-1-2-E1 IEC 60794-1-2-E3 IEC 60794-1-2-E4 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E6	Mandrel Dian Length under Applied tensil Duration: 5 m Applied load: Duration of lo Height of imp Drop hamme No. of impact Length: ≥ 100 Mandrel : 10 Sheave Diam Applied Load No. of Flexing Flexing Speed Length: 2 me Load: 5 Kg No. of Flexing Temperature	IEC 60304 Telcordia IEC 60332-1 and EN Specified Value heter: 30 x Cable OD tension: ≥ 50 m e load: 1500 N inutes 500N/85mm ading: 5 minutes act: 0.5m r mass: 0.5kg ts: 1 m × Cable OD eter: 15 x Cable OD : 0.5kg Cycles: 5 Cycles ters Cycles: 5 Cycles	andards -Bellcore, TIA-598C Star I-Bellcore, TIA-598C Star I-Bellcore, TIA-598C Star I-Bellcore, TIA-598C Star PASS Attenuation cha The optical fibe PASS Attenuation cha The optical fibe	and EN 50268 / IEC 60754- Acceptance ange <= 0.05 dB r shall have no distinct addit ange <= 0.05 dB r shall have no distinct addit	 Criteria ional attenuation and strain. 		
Color Coding Flame Retardant TEST DATA Test Tension Crush Performance Impact Resistance Bending Radius Repeated Bending Torsion Test	Standard IEC 60794-1-2-E1 IEC 60794-1-2-E3 IEC 60794-1-2-E3 IEC 60794-1-2-E4 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11	Mandrel Dian Length under Applied tensil Duration: 5 m Applied load: Duration of lo Height of imp Drop hamme No. of impact Length: ≥ 100 Mandrel : 10 Sheave Diam Applied Load No. of Flexing Flexing Speed Length: 2 me Load: 5 Kg No. of Flexing Temperature 25°C→ -40°C→	IEC 60304 Telcordia IEC 60332-1 and EN Specified Value heter: 30 x Cable OD tension: ≥ 50 m e load: 1500 N inutes 500N/85mm ading: 5 minutes act: 0.5m r mass: 0.5kg ts: 1 m × Cable OD eter: 15 x Cable OD : 0.5kg Cycles: 5 Cycles t: 2 Seconds/Cycle ters Cycles: 5 Cycles : 180°, Applied Load: 0 cycling schedule	andards -Bellcore, TIA-598C Star I 50266-2-1 / IEC 61034 PASS Attenuation chu The optical fibe PASS Attenuation chu The optical fibe	indards and EN 50268 / IEC 60754- Acceptance ange $<= 0.05$ dB ir shall have no distinct addit ange $<= 0.05$ dB ir shall have no distinct addit	 Criteria ional attenuation and strain. 		
Color Coding Flame Retardant TEST DATA Test Tension Crush Performance Impact Resistance Bending Radius Repeated Bending Torsion Test Temperature	Standard IEC 60794-1-2-E1 IEC 60794-1-2-E3 IEC 60794-1-2-E3 IEC 60794-1-2-E4 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11	Mandrel Dian Length under Applied tensil Duration: 5 mApplied load: Duration of loHeight of imp Drop hamme No. of impacLength: \geq 10 Mandrel : 10Sheave Diarm Applied Load No. of Flexing Flexing SpeecLength: 2 me Load: 5 Kg No. of Flexing Twist Angle: \pm Temperature $25^{\circ}C \rightarrow -40^{\circ}C - $ Soak time at a	IEC 60304 Telcordia IEC 60332-1 and EN Specified Value heter: 30 x Cable OD tension: ≥ 50 m e load: 1500 N inutes 500N/85mm ading: 5 minutes act: 0.5m r mass: 0.5kg ts: 1 m × Cable OD eter: 15 x Cable OD : 0.5kg Cycles: 5 Cycles : 2 Seconds/Cycle ters Cycles: 5 Cycles : 180°, Applied Load: 0 cycling schedule : 70°C→ : 40°C→ 70°C→ 2 each temperature: 8hc	andards -Bellcore, TIA-598C Star I 50266-2-1 / IEC 61034 PASS Attenuation chu The optical fibe PASS Attenuation chu The optical fibe	and EN 50268 / IEC 60754- Acceptance ange <= 0.05 dB r shall have no distinct addit ange <= 0.05 dB r shall have no distinct addit	 Criteria ional attenuation and strain. 		
Color Coding Flame Retardant TEST DATA Test Tension Crush Performance Impact Resistance Bending Radius Repeated Bending Torsion Test Temperature	Standard IEC 60794-1-2-E1 IEC 60794-1-2-E3 IEC 60794-1-2-E3 IEC 60794-1-2-E4 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-F1 IEC 60794-1-2-F1	Mandrel Dian Length under Applied tensil Duration: 5 m Applied load: Duration of lo Height of imp Drop hamme No. of impac Length: ≥ 100 Mandrel : 10 Sheave Diam Applied Load: No. of Flexing Flexing Speec Length: 2 me Load: 5 kg No. of Flexing Temperature 25°C→ -40°C= Soak time at 0 Length: 1 me	IEC 60304 Telcordia IEC 60332-1 and EN Specified Value heter: 30 x Cable OD tension: ≥ 50 m e load: 1500 N inutes 500N/85mm ading: 5 minutes act: 0.5m r mass: 0.5kg ts: 1 m × Cable OD eter: 15 x Cable OD : 0.5kg Cycles: 5 Cycles d: 2 Seconds/Cycle ters Cycles: 5 Cycles : 180°, Applied Load: 0 cycling schedule : 70°C→ -40°C→ 70°C→ 2 each temperature: 8hc	andards -Bellcore, TIA-598C Star I 50266-2-1 / IEC 61034 PASS Attenuation chu The optical fibe PASS Attenuation chu The optical fibe	and EN 50268 / IEC 60754- Acceptance ange <= 0.05 dB r shall have no distinct addit ange <= 0.05 dB r shall have no distinct addit	 Criteria ional attenuation and strain. 		
Color Coding Flame Retardant TEST DATA Test Tension Crush Performance Impact Resistance Bending Radius Repeated Bending Torsion Test Temperature Performance	Standard IEC 60794-1-2-E1 IEC 60794-1-2-E3 IEC 60794-1-2-E3 IEC 60794-1-2-E4 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11 IEC 60794-1-2-E11	Mandrel Dian Length under Applied tensil Duration: 5 mApplied load: Duration of loHeight of imp Drop hamme No. of impacLength: \geq 10 Mandrel : 10Sheave Diarm Applied Load No. of Flexing Flexing SpeecLength: 2 me Load: 5 Kg No. of Flexing Twist Angle: \pm Temperature $25^{\circ}C \rightarrow -40^{\circ}C - $ Soak time at a	IEC 60304 Telcordia IEC 60332-1 and EN Specified Value heter: 30 x Cable OD tension: ≥ 50 m e load: 1500 N inutes 500N/85mm ading: 5 minutes act: 0.5m r mass: 0.5kg ts: 1 m × Cable OD eter: 15 x Cable OD : 0.5kg Cycles: 5 Cycles t: 2 Seconds/Cycle ters Cycles: 5 Cycles : 180°, Applied Load: 0 cycling schedule > 70°C→ -40°C→ 70°C→ 2 each temperature: 8hc	andards -Bellcore, TIA-598C Star I-Bellcore, TIA-598C Star I-Bellcore, TIA-598C Star I-Bellcore, TIA-598C Star PASS Attenuation cha The optical fibe PASS Attenuation cha The optical fibe	and EN 50268 / IEC 60754- Acceptance ange <= 0.05 dB r shall have no distinct addit ange <= 0.05 dB r shall have no distinct addit	 Criteria ional attenuation and strain. ge of optical fiber 		

Distribution Tight Buffer Multimode Cable

Distribution Cable 2-24 Fibers, Indoor/Outdoor, Non-Jelly

GENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS	
Environment	Indoor, Outdoor
Applications	Aerial, Duct, Riser, UV Resistant, Flame Retardant, Fire Rated
Cable Type	Distribution Cable (OFNR)
CABLE CONSTRUCTION	
Cable Strength Members	Aramid Yarn
Optical Fibers	UV Colored High Grade Silica Glass Surrounded by Acrylate Coating
Fiber Count	2~24
Buffered Fibers Color	1-Blue, 2-Orange, 3-Green, 4-Brown, 5-Grey, 6-White, 7-Red, 8-Black, 9-Yellow, 10-Violet, 11-Pink, 12-Aqua, 13–Blue with Black Tracker, 14-Orange with Black Tracker, 15-Green with Black Tracker, 16-Brown with Black Tracker, 17-Grey with Black Tracker, 18- White with Black Tracker, 19-Red with Black Tracker, 20-Black with Yellow Tracker, 21-Yellow with Black Tracker, 22-Violet with Black Tracker, 23-Pink with Black Tracker, 24-Aqua with Black Tracker
Moisture Protection	Water Swellable Yarn, Water Swellable Tape
Number of Ripcords	1
Cable Outer Jacket Color	Multimode OM1: Orange, RAL 2004; Multimode OM2: Orange, RAL 2004; Multimode OM3, Aqua RAL 6027, OM4: Violet RAL 4003
Cable Outer Jacket	PVC, LSOH, OFNP, OFNR, Thickness: $1.0 \pm 0.0.3$ mm, Φ 6.5 ± 0.3 mm
Cable Marking	Infinique Canada Distribution Tight Buffer Cable Model Number UL Listed SN:NNNXXXX-YYMM XXXXXM
TEMPERATURE RANGE	
Installation and Assembly	-10°C to 60°C (14 °F to 140 °F)
Operation	-40°C to 70°C (-40 °F to 158 °F)
Storage	-40°C to 70°C (-40 °F to 158 °F)
MECHANICAL SPECIFICATION	NS

Fiber Count	Nominal OD (mm)	Min Bend Radius (mm)	Tensile (N)	Nominal Wt. (kg/km)	Max Drum Length (m)
2	6.5 ±0.3mm	60	1500	20	4500
4	6.5 ±0.3mm	60	1500	24	4500
6	6.5 ±0.3mm	60	1500	28	4500
8	6.5 ±0.3mm	60	1500	32	4500
12	6.5 ±0.3mm	60	1500	36	4500
16	6.5 ±0.3mm	60	1500	40	4500
18	6.5 ±0.3mm	60	1500	44	4500
24	6.5 ±0.3mm	60	1500	48	4500

OPDERING INFORMATION

ORDERING INFORMATION			
Part Number	Description		
IFOCM1TBN	Infinique Distribution Tight Buffer Non-Jelly Multimode OM1, UL Listed OFNR Cable		
IFOCM1TBNL	Infinique Distribution Tight Buffer Non-Jelly Multimode OM1, UL Listed OFNR Cable		
IFOCM2TBN	Infinique Distribution Tight Buffer Non-Jelly Multimode OM2, UL Listed OFNR Cable		
IFOCM2TBNL	Infinique Distribution Tight Buffer Non-Jelly Multimode OM2, UL Listed OFNR Cable		
IFOCM3TBN	Infinique Distribution Tight Buffer Non-Jelly Multimode OM3, UL Listed OFNR Cable		
IFOCM3TBNL	Infinique Distribution Tight Buffer Non-Jelly Multimode OM3, UL Listed OFNR Cable		
IFOCM4TBN	Infinique Distribution Tight Buffer Non-Jelly Multimode OM4, UL Listed OFNR Cable		
IFOCM4TBNL	Infinique Distribution Tight Buffer Non-Jelly Multimode OM4, UL Listed OFNR Cable		
Number of Cores: Replace 'N' in Part Number for the number of Fiber Cores (2 to 24 Cores).			



Infinique, a Canadian company is a manufacturer of high performing end-to-end solutions in copper, fiber and video surveillance systems. For more information visit our website at www.infinique.com or email us at sales@infinique.com.