

Distribution Tight Buffer Flexi Tube Cable

Distribution Cable 36-288 Fibers, Indoor/Outdoor, Non-Jelly

Infinique's Distribution Tight Buffer Flexi Tube Cables are suitable for intra-building backbone and inter-building applications. Available from 36 to 288 cores these cables are designed not just to save space and time but also to further simplify installation and fiber management by eliminating the need for splicing the cables before entering buildings.

Being extremely flexible and metal-free, these cables are ideal for high fiber count applications such as duct, and riser indoor spaces. For singlemode cables, choice of either ITU-T G.652D or ITU-T G.657 bend insensitive fiber is available.

The cable construction is composed of six sub-units of multi-core buffered cables stranded around the central strength member. Each sub-unit has aramid yarn which is longitudinally applied around the tight buffered fibers and then enclosed in a protective outer jacket. Rip Cords are

Features and Benefits

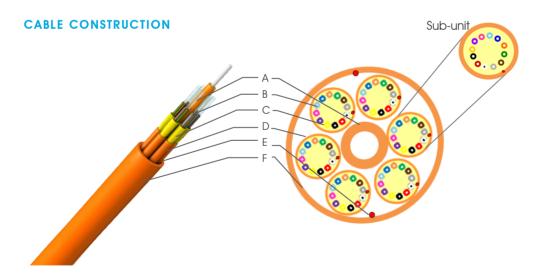
- Reliable Performance
 - Gigabit Ethernet and 10 Gigabit Ethernet Performance

Rugged Construction Aramid Yarn for high tensile strength, extremely flexible, metal free, greater crush resistance, and water ingress protection

- Clear Identification Color coded Buffered Fibers and Outer Jacket
 Speedy Installation
 - Simple fiber management and Ripcords for easy stripping
- Challenging Applications
 Duct, Riser and other challenging conditions

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 accordance with Telecordia standards. The outer jacket of the singlemode cable is yellow, OM1 and OM2 is orange, and aqua for OM3 and OM4. The cable is clearly meter marked with durable black ink. The cable can be custom made ranging from 36 to 288 fibers, and is suitable for 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.



Legend

- A. Central Strength Member
- B. Buffered Fibers
- C. Aramid Yarn
- D. Sub-unit Jacket
- E. Ripcord
- F. Outer Jacket



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OPTICAL SPECIFICATIONS

Fiber Type			Singlemode	Singlemode Bend Insensitive	Multimode 62.5/125	Multimode 50/125	Multimode 50/125 LOF	Multimode 50/125 LOF	
EC 11801 classification			OS1/OS2	O\$1/O\$2	OM1	OM2	OM3	OM4	
TU-T type			G.652D	G.657A	G.651	G.651	G.651	G.651	
		850 nm			≤ 3.5	≤ 2.8	≤ 2.8	≤ 2.8	
Attenuation (dB/km max)		1310 nm	≤ 0.35	≤ 0.35	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	
		1550 nm	≤ 0.21	≤ 0.20					
		1625 nm	≤ 0.23	≤ 0.21					
		850 nm-1310	- 0.20	= 0.21	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	
Bending Loss 1 turn Radius 20× Cable OD		1550 nm	≤ 0.25	≤ 0.025		_ 0.00			
		1625 nm	≤ 0.20 ≤ 1.0	≤ 0.1					
		850 nm	21.0	2 0.1	≥ 160	≥ 500	≥ 2000	≥ 3500	
Bandwidth MHz x	km	1310 nm			≥ 500			≥ 1200	
			. 0.5		2 500	≥ 500	≥ 1200	2 1200	
		1285-1330 nm	≤ 3.5	≤ 3.0					
Uniomatic Disper	rsion (ps/(nm*km))	1550 nm	≤ 18 22	≤ 18					
7		1625 nm	≤ 22	≤ 22					
Zero Dispersion W			1300-1324						
	ope (ps/(nm²km))		≤ 0.093						
GEOMETRIC	CAL SPECIFICA	TIONS							
Core Diameter (µ	im)		9.3±5	9.3±5	62.5±2.5	50±2.5	50±2.5	50±2.5	
Cladding Diamet	,		125 ± 1.0	125 ± 1.0	125 ±1.0	125 ± 1.0	125 ±1.0	125 ±1.0	
Coating Diamete			245 ±10	245 ±10	245 ±10	245 ±10	245 ±10	245 ± 10	
•				2.0 = 70	2.0 = 10	2.0 2.0	2.0 = 10	2.0 2.0	
		0	5.000	5.000	200	750	1000	1100	
Gigabit Ethernet I	Disiance (m)	Sx (850 nm)	5,000	5,000	300	750	1000	1100	
		Lx (1310 nm)	-	-	550	600	600	600	
	ot Distance (m)	Sx (850 nm)	10,000	10,000	33	150	300	550	
10 Gigabit Ethern	iei Disiance (m)	Lx (1310 nm)	40,000	40,000	-	-	-	-	
[hese are the an	plicable distances at			for lower frequencies.		1			
STANDARDS	•								
	,			1801, EN 50173-X, IC	EA 606 Complia	ot			
Performance				Is IEEE 802.3 Ethernet (i			ON ATM Eibro Cha		
				,	0 0	uon Linemeij, GP			
Fiber Geometry				2014 Optical Fibers Pc					
Attenuation				2001 Optical Fibers Pa					
Chromatic Dispe				2013 Optical Fibers Pc					
Cut-off Waveleng				2011 Optical Fibers Pc					
Mode Field Diam	leter		IEC 60793-1-45:	2001 Optical Fibers P	art 1-45				
Mechanical Tests	1		IEC 60794-I-21:2	015 Optical Fibers Pa	† 1-21				
Environmental Te	sts			2017 Optical Fibers P					
Color Coding				rdia-Bellcore, TIA-5980					
<u> </u>	/ LSOH Emissions / No	n-Corrosive		d EN 50266-2-1 / IEC 6		268 / IEC 60754-2	2 and EN 50267		
TEST DATA		-		, 0 0					
	Chave allowed								
Test	Standard		pecified Value		Acceptance Criteria				
			Mandrel Diameter: 30 x Cable OD						
Tension	IEC 60794-1-21	0	ension: $\geq 50 \text{ m}$		PASS Attenuation change < -0.05 dB				
		Applied tensile	Applied tensile load: 1500 N		Attenuation change $<= 0.05$ dB				
					The optical fiber shall have no distinct additional attenuation and strain.				
		Duration: 5 mi	nutes	ine oplice	al fiber shall have	no distinct additi		na strain.	
				,	al fiber shall have	no distinct additi		na strain.	
	IEC 60794-1-21	Applied load:	500N/100mm ²	PASS				na strain.	
	IEC 60794-1-21	Applied load:		PASS Attenuatio	n change <= 0	.05 dB			
Crush Performance	IEC 60794-1-21	Applied load: Duration of loc	500N/100mm² Iding: 5 minutes	PASS Attenuatio The optico	n change <= 0	.05 dB	onal attenuation a		
Performance		Applied load: Duration of loc Height of impo	500 N/100 mm ² Iding: 5 minutes act: 0.5m	PASS Attenuatio The optico PASS	n change <= 0 al fiber shall have	.05 dB no distinct additi			
Performance Impact	IEC 60794-1-21	Applied load: Duration of loc Height of impo Drop hammer	500N/100mm² Iding: 5 minutes act: 0.5m mass: 0.5kg	PASS Attenuatio The optico PASS Attenuatio	n change <= 0 11 fiber shall have n change <= 0	.05 dB no distinct additi .05 dB	onal attenuation a	nd strain.	
Performance Impact		Applied load: Duration of loc Height of impo	500N/100mm² Iding: 5 minutes act: 0.5m mass: 0.5kg	PASS Attenuatio The optico PASS Attenuatio	n change <= 0 11 fiber shall have n change <= 0	.05 dB no distinct additi .05 dB		nd strain.	
Performance Impact Resistance		Applied load: Duration of loc Height of impo Drop hammer	500N/100mm ² Iding: 5 minutes Inct: 0.5m mass: 0.5kg s: 1	PASS Attenuatio The optico PASS Attenuatio	n change <= 0 11 fiber shall have n change <= 0	.05 dB no distinct additi .05 dB	onal attenuation a	nd strain.	
Performance Impact Resistance Bending		Applied load: Duration of loc Height of impo Drop hammer No. of impact	500N/100mm ² Iding: 5 minutes Iact: 0.5m mass: 0.5kg s: 1	PASS Attenuatio The optico PASS Attenuatio The optico PASS	n change <= 0 11 fiber shall have n change <= 0	.05 dB no distinct additi .05 dB no distinct additi	onal attenuation a	nd strain.	
Performance mpact Resistance Bending	IEC 60794-1-21	Applied load: Duration of loc Height of impor Drop hammer No. of impact: Length: ≥ 10n	500N/100mm ² Iding: 5 minutes Iact: 0.5m mass: 0.5kg s: 1	PASS Attenuatio The opticc PASS Attenuatio The opticc PASS Attenuatio	n change <= 0 11 fiber shall have n change <= 0 11 fiber shall have n change <= 0	.05 dB no distinct additi .05 dB no distinct additi .05 dB	onal attenuation a	nd strain. nd strain.	
Performance Impact Resistance Bending	IEC 60794-1-21	Applied load: Duration of loc Height of impor Drop hammer No. of impact: Length: ≥ 10n Mandrel : 15 >	500N/100mm ² Iding: 5 minutes Inct: 0.5m mass: 0.5kg s: 1 Cable OD	PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico	n change <= 0 11 fiber shall have n change <= 0 11 fiber shall have n change <= 0	.05 dB no distinct additi .05 dB no distinct additi .05 dB	onal attenuation a	nd strain. nd strain.	
Performance mpact Resistance Bending Radius	IEC 60794-1-21	Applied load: Duration of loc Drop hammer No. of impact: Length: ≥ 10n Mandrel : 15 > Sheave Diame	500N/100mm ² Iding: 5 minutes Inct: 0.5m mass: 0.5kg s: 1 Cable OD	PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico	n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0 al fiber shall have	.05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi	onal attenuation a	nd strain. nd strain.	
Performance mpact Resistance Bending Radius Repeated	IEC 60794-1-21	Applied load: Duration of load Height of import Drop hammer No. of impact: Length: ≥ 10n Mandrel : 15 > Sheave Diamer Applied Load	500N/100mm ² Iding: 5 minutes Inct: 0.5m mass: 0.5kg s: 1 Cable OD eter: 15 x Cable OE	PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico	n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0	.05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi	onal attenuation a onal attenuation a onal attenuation a	nd strain. nd strain. nd strain.	
Performance mpact Resistance Bending Radius Repeated	IEC 60794-1-21	Applied load: Duration of load Height of import Drop hammer No. of impact: Length: ≥ 10n Mandrel : 15 > Sheave Diamer Applied Load No. of Cycles:	500N/100mm ² Iding: 5 minutes mass: 0.5kg s: 1 < Cable OD eter: 15 x Cable OE 0.5kg 5	PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico	n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0	.05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi	onal attenuation a	nd strain. nd strain. nd strain.	
Performance Impact Resistance Bending Radius	IEC 60794-1-21	Applied load: Duration of loc Height of import Drop hammer No. of impact: Length: ≥ 10n Mandrel : 15 > Sheave Diamer Applied Load No. of Cycles: Flexing Speed	500N/100mm ² Iding: 5 minutes Inct: 0.5m mass: 0.5kg s: 1 Cable OD ter: 15 x Cable OE 0.5kg 5 2 Seconds/Cycle	PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico	n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0	.05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi	onal attenuation a onal attenuation a onal attenuation a	nd strain. nd strain. nd strain.	
Performance Impact Resistance Bending Radius	IEC 60794-1-21	Applied load: Duration of loc Height of import Drop hammer No. of impact: Length: ≥ 10n Mandrel : 15 > Sheave Diame Applied Load No. of Cycles: Flexing Speed Length: 2 met	500N/100mm ² Iding: 5 minutes Inct: 0.5m mass: 0.5kg s: 1 Cable OD ter: 15 x Cable OE 0.5kg 5 2 Seconds/Cycle	PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico	n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0	.05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi	onal attenuation a onal attenuation a onal attenuation a	nd strain. nd strain. nd strain.	
Performance Impact Resistance Bending Radius Repeated Bending	IEC 60794-1-21 IEC 60794-1-21 IEC 60794-1-21	Applied load: Duration of loc Height of impo Drop hammer No. of impact: Length: ≥ 10n Mandrel : 15 > Sheave Diame Applied Load No. of Cycles: Flexing Speed Length: 2 met Load: 5 Kg	500N/100mm ² Iding: 5 minutes act: 0.5m mass: 0.5kg s: 1 Cable OD ter: 15 x Cable OE 0.5kg 5 2 Seconds/Cycle	PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico	n change $\langle = 0$ al fiber shall have n change $\langle = 0$ al fiber shall have n change $\langle = 0$ al fiber shall have n change $\langle = 0$ al fiber shall have	.05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi	onal attenuation a onal attenuation a onal attenuation a	nd strain. nd strain. nd strain.	
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	IEC 60794-1-21 IEC 60794-1-21 IEC 60794-1-21	Applied load: Duration of loc Height of impo Drop hammer No. of impact: Length: ≥ 10n Mandrel : 15 > Sheave Diame Applied Load No. of Cycles: Flexing Speed Length: 2 meth Load: 5 Kg No. of Cycles:	500N/100mm ² Iding: 5 minutes act: 0.5m mass: 0.5kg s: 1 Cable OD ter: 15 x Cable OE 0.5kg 5 2 Seconds/Cycle	PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico	n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0 n change <= 0	.05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi	onal attenuation a onal attenuation a onal attenuation a	nd strain. nd strain. nd strain.	
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Performance Impact Resistance Bending Radius Repeated Bending Torsion Test	IEC 60794-1-21 IEC 60794-1-21 IEC 60794-1-21 IEC 60794-1-21 IEC 60794-1-21	Applied load: Duration of loc Height of import Drop hammer No. of impact: Length: ≥ 10n Mandrel : 15 > Sheave Diame Applied Load No. of Cycles: Flexing Speed Length: 2 meth Load: 5 Kg No. of Cycles: Twist Angle: ±	500N/100mm ² Iding: 5 minutes Inct: 0.5m mass: 0.5kg S: 1 Cable OD Cable OD ter: 15 x Cable OE 0.5kg 5 2 Seconds/Cycle ers 5	PASS Attenuatio The optico PASS Attenuatio The optico PASS Attenuatio The optico D PASS Attenuatio The optico D PASS Attenuatio The optico	n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0 al fiber shall have n change <= 0 n change <= 0	.05 dB no distinct additi .05 dB no distinct additi .05 dB no distinct additi .05 dB	onal attenuation a onal attenuation a onal attenuation a	nd strain. nd strain. nd strain.	
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Distribution Tight Buffer Flexi Tube Cable

Distribution Cable 36-288 Fibers, Indoor/Outdoor, Non-Jellv

GENERAL SPECIFICATIONS

OLIVERAL OF LOT TOATIN				
Environment	Indoor, Outdoor			
Applications	Aerial, Duct, Riser, UV Resistant, Flame Retardant, Fire Rated			
Cable Type	Distribution Cable			
CABLE CONSTRUCTION				
Cable Strength Members	Central Strength Member, Aramid Yarn			
Optical Fibers	UV Colored High Grade Silica Glass Surrounded by Acrylate Coating			
Fiber Count	36 – 288			
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			
Number of Ripcords	Sub-Unit: 1, Outer Cable: 2			
Cable Outer Jacket Color	Singlemode: Yellow, RAL 1018; 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, Diameter: 18.5 \pm 0.5mm, Thickness: 1.5 \pm 0.0.3mm			
Cable Marking	Infinique Canada Distribution Tight Buffer Flexi Tube Cable Model Number SN:NNNNYYMM XXXXM			
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 SPECIFIC				

Fiber Count	Sub Units	Filled Units	Unit Fiber Count	Nominal OD (mm)	Nominal Wt. (kg/km)	Min Bend Radius	Max Tensile (N)	Crush Resistance N/100mm ²	Drum Length (M)
36	6	3	12	18.5 ±0.5	210	10D	1300	1000	4000
48	6	4	12	18.5 ±0.5	250	10D	1300	1000	4000
72	6	6	12	18.5 ±0.5	300	10D	1300	1000	4000
96	6	6	16	18.5 ±0.5	460	10D	1300	1000	4000
144	6	6	24	18.5 ±0.5	680	10D	1300	1000	4000
192	12	12	16	32.5 ±0.5	1160	10D	1300	1000	4000
288	12	12	24	32.5 ± 0.5	1160	10D	1300	1000	4000

ORDERING INFORMATION

Part Number	Description		
IFOCSMTBN	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Singlemode, NC		
IFOCSMTBNL	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Singlemode, LSOH, NC		
IFOCM1TBN	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Multimode OM1, NC		
IFOCM1TBNL	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Multimode OM1, NC		
IFOCM2TBN	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Multimode OM2, NC		
IFOCM2TBNL	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Multimode OM2, LSOH NC		
IFOCM3TBN	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Multimode OM3, NC		
IFOCM3TBNL	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Multimode OM3, LSOH, NC		
IFOCM4TBN	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Multimode OM4, NC		
IFOCM4TBNL	Infinique Distribution Tight Buffer Flexi Tube Cable, Non-Jelly Multimode OM4, LSOH, NC		
Replace 'N' in Part Number for the number of Fiber Cores (36 to 288 Cores), NC in Description will be Number of 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.