

OM3 12F Tight-Buffered Cable

F-12COM3TB-XX

OM2+ Bend Insensitive Multimode Fibre complies with or exceeds ISO/IEC 11801 OM2 specification, IEC 60793-2-10 type A1a.1 Optical Fibre Specification, and TIA/EIA-492AAAB-A detail specification.

OM3/OM4 Bend Insensitive Multimode Fibres comply with or exceed ISO/IEC 11801 OM3/OM4 specification, IEC 60793-2-10 type A1a.2 and A1a.3 Optical Fibre Specification, and TIA/EIA-492AAAC/492AAD detail specification.

System Link Length



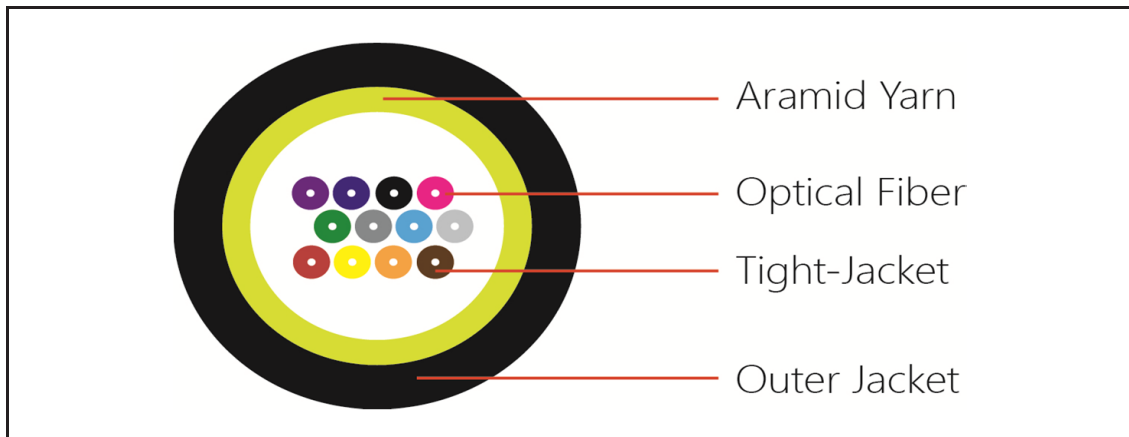
Features	Benefits and Applications
• Very low macro-bending sensitivity • Low micro-bending sensitivity	• The fibre is easier to handle and install without excessive care when storing the fibre, for example, in splicing cassettes. • Supports installation with small cable bend radius and compact organisers. • Facilitates jumper moves, adds and changes
• Maintaining compatibility with current OM2+/OM3/OM4 multimode optical fibre • Low differential mode delay (DMD)	• Central offices • Data centres • High performance computing centres • Local Area Network • Storage Area Network • Supporting 1 & 10 & 40 & 100 & 400 Gb/s applications
• Low attenuation • Coated with YOFC's proprietary duallayer UV curable acrylate	• Optimised performance in tight-buffer cable applications • High resistance to micro-bending • Stable performance over a wide range of environmental conditions

Characteristics	Conditions	Specified values	Units
Geometry Characteristics			
Core Diameter	—	50±2.5	[µm]
Core Non-Circularity	—	≤5.0	[%]
Cladding Diameter	—	125.0±1.0	[µm]
Cladding Non-Circularity	—	≤0.6	[%]
Coating Diameter	—	245±7	[µm]
Coating/Cladding Concentricity Error	—	≤10.0	[µm]
Coating Non-Circularity	—	≤6.0	[%]
Core/Cladding Concentricity Error	—	≤1.0	[µm]
Delivery Length	—	up to 8.8	[km/reel]
Optical Characteristics			
Attenuation	850nm	≤2.4	[dB/km]
	1300nm	≤0.6	[dB/km]
—	—	OM2+/OM3/OM4 Bend In	sensitive
Overfilled Modal Bandwidth	850nm	≥700/≥1500/≥3500	[MHz·km]
	1300nm	≥500/≥500/≥500	[MHz·km]
Effective Modal Bandwidth	850nm	≥950/≥2000/≥4700	[MHz·km]
Application support distance on	—	—	—
40GBASE-SR4 / 100GBASE-SR10	850nm	~100/150	[m]
10GBASE-SR	850nm	150/300/500	[m]
100GBASE-SR	850nm	750/1000/1100	[m]
DMD Specification	Compliant with and more stringent than the requirements of IEC 60793-2-10		
Numerical Aperture	—	0.200±0.015	—
Group Refractive Index	850nm	1.482	—
	1300nm	1.477	—
Zero Dispersion Wavelength, λ_0	—	1295-1340	[nm]
Zero Dispersion Slope, S_0	1295nm ≤ λ_0 ≤ 1310nm	≤0.105	[ps/(nm ² ·km)]
	1310nm ≤ λ_0 ≤ 1340nm	≤0.000375(1590- λ_0)	[ps/(nm ² ·km)]
Macrobending Loss ¹	—	—	—
2 Turns @ 15 mm Radius	850nm	≤0.1	[dB]
	1300nm	≤0.3	[dB]
2 Turns @ 7.5 mm Radius	850nm	≤0.2	[dB]
	1300nm	≤0.5	[dB]
Backscatter Characteristics			
1300nm			
Step (Mean of Bidirectional Measurement)	—	≤0.10	[dB]
Irregularities Over Fibre Length and Point Discontinuity	—	≤0.10	[dB]
Attenuation Uniformity	—	≤0.08	[dB/km]
Environmental Characteristics			
850nm & 1300nm			
Temperature Cycling	-60°C to 85°C	≤0.10	[dB/km]
Temperature-Humidity Cycling	-10°C to 85°C, 4% to 98% RH	≤0.10	[dB/km]
Water Immersion	23°C, 30 days	≤0.10	[dB/km]
Dry Heat	85°C, 30 days	≤0.10	[dB/km]
Damp Heat	85°C, 85% RH, 30 days	≤0.10	[dB/km]
Mechanical Specification			
Proof Test	—	≥9.0	[N]
	—	≥1.0	[%]
	—	≥100	[kpsi]
Coating Strip Force	typical average force	15	[N]
	peak force	≥1.3, ≤8.9	[N]
Dynam Stress Corrosion Susceptibility Parameter (n _{typical})	—	20	—

Remarks: 1. The launch condition for the macrobending loss measurement fulfils that described in IEC 61280-4-1.

Multimode OM3 12F Tight Buffer BLACK

PRODUCT STRUCTURE DIAGRAM



CONSTRUCTION

1. Optical Fiber: OM3 Color Fiber		Fiber Brand: YOFC
2. Tight-Jacket	OD: 0.9±0.1 mm	
3. Aramid Yarn	1580D*7	
4. Outer Jacket: LSZH	OD: 6.1±0.1 mm	
Color: Black		

PARAMETERS OF FIBER

Optical Fiber Type	UNIT	OM3-300
Waveband	nm	850/1300
Attenuation	dB/Km	3.5/1.5

PRODUCT PARAMETERS

Performance	Long-Term	Short-Term
Max. Tension(N)	240	480
Max. Crush Resistance (N/100mm)	100	500
Min. Bend Radius	30D (Dynamic)	15D (Static)
Storage and Operating Temperature	-20°C ~ + 60°C	

PART No. & UPC CODE

Part No.	UPC Code
F-12COM3TB-200	329518715
F-12COM3TB-300	329518716
F-12COM3TB-500	329518717
F-12COM3TB-1KM	329518718

APPEARANCE AND PACKING

1. No Damage On The Surface.
2. Wooden Drum Packing.
3. Segment Length: Usually 1000/2000/3000M Length of Each Drum Shall Be Similar As Much As Possible. Other Lengths Can Be Customized By Clients