

# WIREFATH

## BULK WIRE

### SP-FBR-P-1K-4BRK-MM

Type OM3, 4 Strand, breakout

#### Features

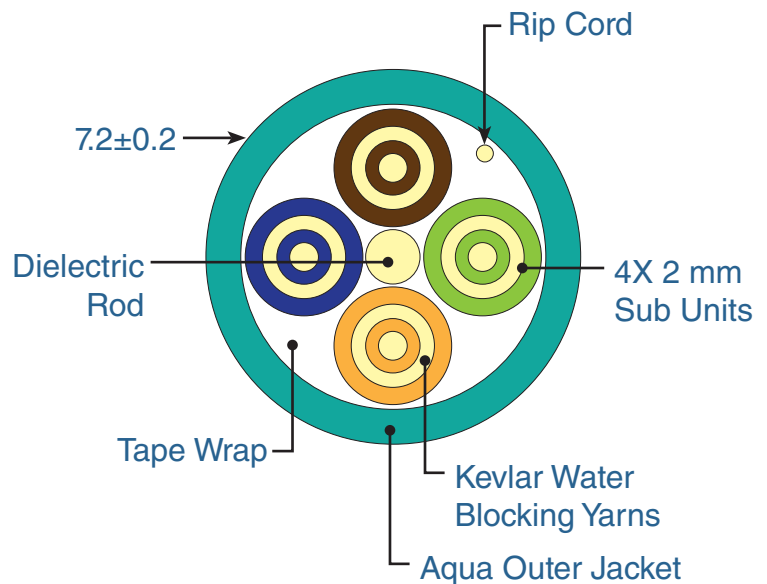
- High mechanical strength and superior durability
- Integral coating eliminates stripping, provides glass protection
- Up to 10,000x the bend longevity of standard fiber
- Increased safety factor due to the incredible bend insensitivity
- Glass fiber remains protected at all times from the elements
- Simplified termination process designed for ease of use
- Ultra low attenuation loss on tight bend radius
- Exclusive 250um Soft peel jacket

#### Application

- Inter-building and intra-building voice or data communication backbones.
- Install in ducts, underground conduits or aerial.
- Fiber-to-the-Home (FTTH), Fiber-to-the-Desk (FTTD).
- ETL listed type OFNP for installation in ducts, plenums and other spaces used as environmental air returns. (NEC article 770-51 (a) and 770-53(a)).

#### Applicable Standards

- ETL Listed, OFNP
- CSA FT6
- IECA S-83-596
- RoHS Compliant



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Construction	
Fiber	4 Strand Breakout
	50/125 Multimode OM3
	250um "Soft Peel" coating Color Coding per TIA/EIA 568C
Jacket	7.2 mm Plenum Rated PVC + UV I/O
Marking	WIREFATH SSF 4 FIBER BREAKOUT MMF(50/125) SSF-S250BIF-OM3 5002371 C2 OFNP C(ETL)US FT-6...INDOOR/OUTDOOR MADE IN USA MM/YY (Month/Year of Manufacture) (Lot #) XXXXXFT Footage markers every two feet.

Physical & Environmental Characteristics		
Physical Characteristics		
Storage Temperature Range	-40°C to +85°C	
Operating Temperature Range	-20°C to +75°C	
Max Tensile Load for Installation	1000 N(225 lbf)	
Max Tensile Long Load term	500 N(112 lbf)	
Min. Bend Radius, Unloaded	7.2 mm	
Cable Outside Diameter, Nominal	7.2 mm ± 0.2 mm	
Cable Package	1000ft Reel	
Crush Resistance	100 kgf / mm	
Weight	135 lbs	
Impact Resistance	1500 Impact cycles	
Flexing @ 90 degree	2000 flexing cycles	
Environmental Characteristics	Dependance at 850 and 1300 nm	Induced Attenuation
Temperature	≤ 0.5 (dB/km)	- 60°C to +85°C
Water Intrusion	≤ 0.5 (dB/km)	20°C for 30 days
Damp Heat	≤ 0.5 (dB/km)	85°C, 85%R.H., 30 days
Dry Heat	≤ 0.5 (dB/km)	85°C, 30 days

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Core Diameter	50.0 ± 2.5(μm)	
Core Non-circularity	≤ 6 (%)	
Core / Hybrid Cladding Concentricity Error	≤ 3.0 (μm)	
Hybrid Cladding Diameter	125 ± 0.7 (μm)	
Hybrid Cladding Non-Circularity Error	≤ 3.0 (%)	
Soft Peel Jacket Identifier Diameter	250 ± 0.7 (μm)	
Coating Strip Force	100 (g)	
Fiber Curl	≤ 2 (m)	
Dynamic Fatigue Constant (Nd)	>30	
Proof Test	100 (kpsi)	
Bends Induced Attenuation at 1300 nm	≤ 1.0 (dB)	
Optical Characteristics		
Attenuation Coefficient	850 nm	1300 nm
	≤ 3.0 (dB/km)	≤ 1.0 (dB/km)
Numerical Aperture	0.200 ± 0.015	
Overfilled Modal Bandwidth	850 nm	1300 nm
	≥ 1500 (MHz·km)	≥ 500 (MHz·km)
High Performance EMB	850 nm	
	≥ 2000 (MHz·km)	
Back Scatter Characteristics		
Attenuation Directional Uniformity	≤ 0.05 (dB/km)	
Attenuation Uniformity	≤ 0.05 (dB)	
Group Index of Refraction	850 nm	1300 nm
	1.481	1.476