

# Micro Armor Fiber™

## Micro Armor Fiber™ The Original Stainless Steel Armor

### Outdoor (OSP) Direct Burial Armored Fiber Optic Cable OM1, OM3, OM4 & Singlemode (2-144 Fiber)

Micro Armor Fiber™ is a revolutionary designed fiber optic cable that will provide the single best solution for all your fiber optic projects and usage. Micro Armor Fiber™ can be used in any channel from Telco, CATV, WAN LAN, SAN, Broadcast, DAS, Communication, Security, Indoor, Outdoor as well as Aerial installations and regardless of environmental conditions.

**Outer Jacket Material: Polyethylene (PE)**  
**Color: Black(OM1), Black(OM3&4), Black(Singlemode)**

#### Micro Armor Fiber™ Key Features

Feature	Benefits
Micro Armor Fiber™	<ol style="list-style-type: none"><li>1. The smallest OD of any armor compared to conventional optical fiber cable in size and flexibility</li><li>2. Lightest and smallest armor makes routing and installation faster and easier</li><li>3. Cables are up to 65% smaller and 75% lighter than conventional Aluminum Interlocking Armor (AIA)</li></ol>
Encased Stainless Steel Coiled Tubular Armor	<ol style="list-style-type: none"><li>1. Provides the strongest armor with maximum bend radius and designed for all outdoor conditions</li><li>2. Crush and rodent resistance for multiple usages</li></ol>
Outer Jacket	<ol style="list-style-type: none"><li>1. Polyethylene (PE)</li></ol>
MultiMode/SingleMode Strands	<ol style="list-style-type: none"><li>1. OS2, OM1, OM3, OM4 from 1 to 144 Strands</li><li>2. (900u 1-6Fiber, 250u 12-144 Fiber)</li></ol>
Kevlar Fiber Strands	<ol style="list-style-type: none"><li>1. Adds tensile strength and flexibility</li></ol>

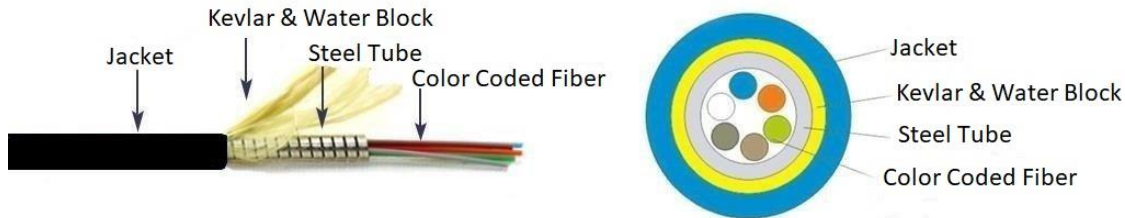
#### Competitive Product Analysis

Feature	Micro Armor Fiber™	Aluminum Interlock Armor (AIA)	Conventional Fiber Cable Jacket
Maximum Bend Radius	✓		✓
Smallest OD With Armor	✓		
Lightest Armor Fiber	✓		
Strongest Armor Fiber	✓	✓	
Lowest Installation Cost	✓		✓

# Micro Armor Fiber™

## Example of Jacket Construction

Note: Fiber Count will match choice made



## General Specifications

Application	Outdoor, Direct Burial, Aerial, Conduits and Ducts
Fiber Category	Multimode (OM1, OM3, and OM4) & Singlemode
Fiber Make	Corning InfiniCore OM1, Corning ClearCurve OM3, OM4 , SM G.652D
Storage	-40 °C to 80 °C (-40 °F to 176 °F)
Installation	-30 °C to 80 °C (-22 °F to 176 °F)
Operation	-40 °C to 80 °C (-40 °F to 176 °F)
Max. Dynamic Tensile Strength	2F-200 N, 6-144F 800N
Max. Static Tensile Strength	2F-100 N, 6-144F 600N
Max. Dynamic Crush Resistance	5000 N
Max. Static Crush Resistance	3000 N
Min. Dynamic Bend Radius	20 x (outside diameter of the cable)
Min. Static Bend Radius	10 x (outside diameter of the cable)
Nominal Outer Diameter	2F-3.0 mm, 4F-4.5mm, 6-24F-6.5mm, 48F-10.5mm 72-96F-12mm 144F-13mm
Weight <b>kg/km</b>	2F-13, 4F 30, 6F 55, 12F-45, 24F -55, 48F-150, 72F-150, 96-180, 144-200
Wavelengths/Max. Attenuation	OM1- 850 nm/<3.0dB/km, 1300 nm/<1.0dB/km OM3 - 850 nm/<3.0dB/km, 1300 nm/<1.0dB/km OM4 - 1300   ≤ 1.0dB/km 850   ≤ 3.0dB/km SM- 1310   ≤ 0.35dB/km G1550   ≤ 0.25dB/km
Maximum Data Rate	OM1-10GB, OM3-4 100GB, SM - 100GB
Fiber core	OM1 62.5/125 um, OM3/4 50/125um, SM 9/125um

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