

# Micro Armor Fiber™ The Original Stainless Steel Armor

## Single Mode 12 Fiber 900mm OS2 with 2x18 AWG Conductors

### Model #PTF12-OS2-18/2

TiniFiber® 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 application: Telco, CATV, LAN, SAN, Broadcast, DAS, Communication, Security, Indoor, Outdoor and Aerial installations.



**Outer Jacket**  
**Material: TPE**  
**Color: Black**  
**Outer Diameter: 9.0 mm**

**900mm Color Coded Fiber, Kevlar, Inner Jacket, Steel Tube, Outer Jacket (TPE,Black) UL/OFCP**

## TiniFiber® Micro Armor Fiber™ Key Features

Feature	Benefits
<b>Micro Armor Fiber™</b>	<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>
<b>Encased Stainless Steel Coiled Tubular Armor</b>	<ol style="list-style-type: none"> <li>1. Provides the strongest armor with smallest bend radius and designed for all indoor &amp; outdoor conditions</li> <li>2. Crush and rodent resistance</li> </ol>
<b>Outer Jackets</b>	<ol style="list-style-type: none"> <li>1. All jackets and colors for Riser, Plenum, Indoor/Outdoor, LSZH, Burial &amp; Industrial projects</li> </ol>
<b>Multimode/Single Mode Fibers</b>	<ol style="list-style-type: none"> <li>1. OS2, OM1, OM3, OM4 from 1 to 144 Fibers (250m/900m/Ribbon)</li> <li>2. Compatible with all standard connectors</li> </ol>
<b>Kevlar</b>	<ol style="list-style-type: none"> <li>1. Adds tensile strength and flexibility</li> </ol>

## Competitive Product Analysis

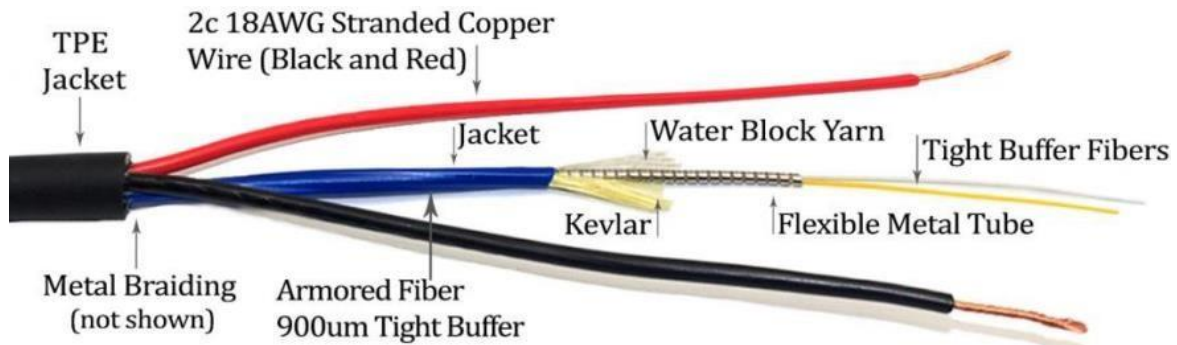
Feature	Micro Armor Fiber™	Aluminum Interlock Armor (AIA)	Conventional Fiber Cable Jacket
<b>Small Bend Radius</b>	✓		✓
<b>Smallest OD With Armor</b>	✓	✓	
<b>Lightest Armor</b>	✓	✓	
<b>Strongest Armor</b>	✓		
<b>Lowest Installation Cost</b>	✓		✓

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**Common Installations:** Ducts, conduits, and outdoor when installed according to NEC® Article 770  
**Design and Test Criteria:** ANSI/ICEA S-87-640



## General Specifications

Application	Outdoor Premise, Duct, Conduits, and Patch
Fiber Category	Multimode (OM4)
Fiber	Clear Curve Bend Insensitive
Storage	-60 °C to 70 °C (-76 °F to 158 °F)
Installation	-60 °C to 70 °C (-76 °F to 1158 °F)
Operation	-60 °C to 70 °C (-76 °F to 158 °F)
Max. Dynamic Tensile Strength	800 N
Max. Static Tensile Strength	600 N
Max. Dynamic Crush Resistance	5000 N
Max. Static Crush Resistance	3000 N
Min. Dynamic Bend Radius	110 mm/4.3 in
Min. Static Bend Radius	55 mm/2.2 in
Nominal Outer Diameter	9.0 mm
Weight	120 kg/km
Stainless Steel Tube Outer Diameter	2.8 mm
Stainless Steel Tube Inner Diameter	2.4 mm
Wavelengths/Max. Attenuation	1300   ≤ 1.5dB/km 850   ≤ 3.0 dB/km
Fiber Core/Cladding Diameter	9/125 mm
Fiber Count	12
# Conductors x Gauge	2 x 18
Steel Braid/Water Block	Yes/Yes
Kevlar	1000dtex
Maximum Data Rate	100 GB
NEC Rating	OFC