

Micro Armor Fiber™ The Original Stainless Steel Armor

Single Mode 12 Fiber 900mm OS2 with 2x16 AWG Conductors

Model #PTF12-OS2-16/2

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 as well as Aerial installations.

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



TiniFiber® Micro Armor Fiber™ Key Features

Feature	Benefits
Micro Armor Fiber™	<ol style="list-style-type: none"> 1. The smallest OD of any armor compared to conventional optical fiber cable in size and flexibility 2. Lightest and smallest armor makes routing and installation faster and easier 3. Cables are up to 65% smaller and 75% lighter than conventional Aluminum Interlocking Armor (AIA)
Encased Stainless Steel Coiled Tubular Armor	<ol style="list-style-type: none"> 1. Provides the strongest armor with smallest bend radius and designed for all indoor & outdoor conditions 2. Crush and rodent resistance
Outer Jackets	<ol style="list-style-type: none"> 1. All jackets and colors for Riser, Plenum, Indoor/Outdoor, LSZH, Burial & Industrial projects
Multimode/Single Mode Fibers	<ol style="list-style-type: none"> 1. OS2, OM1, OM3, OM4 from 1 to 144 Fibers (250m/900m/Ribbon) 2. Available in all standard connectors
Kevlar	<ol style="list-style-type: none"> 1. Adds tensile strength and flexibility
Fiber PLUS Power	<ol style="list-style-type: none"> 1. Install one cable with power to the device (cameras) and avoid piping & lower labor cost 2. The "Power Cables" can be 2, 3 or 4 conductors with 12 AWG to 22 AWG options

Competitive Product Analysis

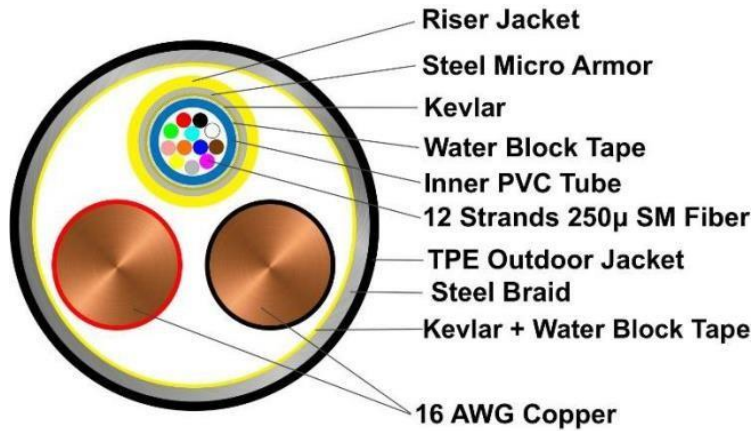
Feature	Micro Armor Fiber™	Aluminum Interlock Armor (AIA)	Conventional Fiber Cable Jacket
Small Bend Radius	✓		✓
Smallest OD With Armor	✓		
Lightest Armor	✓		
Strongest Armor	✓	✓	
Lowest Installation Cost	✓		✓

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Common Installations: Ducts, conduits, riser, 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
Fiber Category	Single Mode (OS2)
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 158 °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	1310 ≤ 0.35dB/km G1550 ≤ 0.25dB/km
Fiber Core/Cladding Diameter	9/125 mm
Fiber Count	12
# Conductors x Gauge	2 x 16 AWG
Steel Braid/Water Block	Yes/Yes
Kevlar	1000dtex
Maximum Data Rate	Up to 100 GB
NEC Rating	OFC