

Micro Armor Fiber™ The Original Stainless Steel Micro Armor Single Mode 12 Fiber Armored OS2 Outdoor/ Direct Burial Polyethylene Model #TF12SW-OS2-PE

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: PE
Color: Black
Outer Diameter: 5.0mm

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 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 that 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. Compatible with all standard connectors
Kevlar	<ol style="list-style-type: none"> 1. Adds tensile strength and flexibility

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	✓		✓

Micro Armor Fiber™ The Original Stainless Steel Micro Armor Single Mode 12 Fiber Armored OS2 Outdoor/ Direct Burial Polyethylene Model #TF12SW-OS2-PE

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, Ducts, Direct Burial and Conduit
Fiber Category	Single Mode (OS2)
Fiber	Clear Curve Bend Insensitive
Storage	-20 °C to 70 °C (-76 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-76 °F to 158 °F)
Max. Dynamic Tensile Strength	400 N
Max. Static Tensile Strength	800 N
Max. Dynamic Crush Resistance	500 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	5.0 mm
Weight	55 kg/km
Stainless Steel Tube Outer Diameter	3.5 mm
Stainless Steel Tube Inner Diameter	2.8 mm
Wavelengths/Max. Attenuation	1310 nm/<0.4dB/km, 1550 nm/<0.3dB/km
Fiber Core/Cladding Diameter	9/125 mm
Fiber Count	12
Steel Braid/Water Block	Yes/Yes
Kevlar	1100dtex
Maximum Data Rate	100 GB
NEC Rating	OFC