

Direct Burial



Outside Plant Micro Armor® Fiber Durability Meets Extreme Conditions

TiniFiber® Outside Plant Single Armor Double Jacket Loose Tube cables deliver proven Micro Armor performance for tough outdoor conditions. Ideal for direct burial and aerial use, they offer superior protection, flexibility, and strength—resisting corrosion, rodents, and extreme temperatures.

A steel-Kevlar® casing shields fibers from moisture, pressure, and impact, while maintaining the ultra-small OD, light weight, and flexibility that installers trust.



Installation Applications

- Direct burial
- Aerial lashing
- Conduits exposed to extreme temperature shifts
- Interbuilding pathways with water ingress risk

Key Attributes

- Available in single-mode and multimode fiber types
- Steel Micro Armor coil resists crushing and rodent damage
- High tensile strength with OD of just 7.5 ±0.5 mm (6, 12, 24 fiber counts)
- Fully water-blocked core using a dry water-blocking system
- Compliant with ANSI/ICEA S-87-640, Telcordia GR-20, and ANSI/TIA-568.3-D

Features & Benefits



Smaller Cable Diameter



Increased Flexibility



Durable Design



Smoother Jacket



Rodent Resistant



UL Listed



OSHA Safe



Lower Shipping Cost



Lower Installation Costs



Crush Resistant



Customizable Solutions

Ordering Information

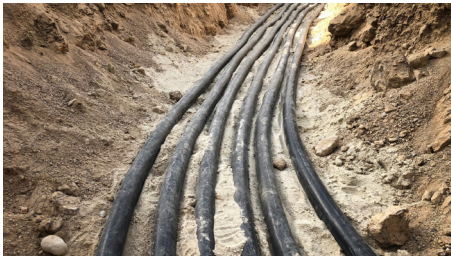
Part Number #	Fiber Count	Environment Type	Fiber Category
TF6-OS2-DB	6	Outdoor	OS2
TF12-OS2-DB	12	Outdoor	OS2
TF24-OS2-DB	24	Outdoor	OS2

Also available as pre-terminated assemblies. These are examples only; any custom configuration can be ordered.

Part Number #	Fiber Count	Environment Type	Fiber Category
TF12R-OS2-PLO-SC-SC-200FT	12	Outdoor	OS2
TF144R-OS2-PL-LC-LC-500FT-1PE	144	Outdoor	OS2

In Direct Burial Applications, Durability is Everything

TiniFiber® Direct Burial Micro Armor Fiber implements a single-armor, double-jacket loose-tube design, with a tightly wrapped stainless-steel coil, High-density Polyethylene Compound (HDPE) compound casing and increased volume of Kevlar®.



Protected from Accidental Damage

This multi-layered defense provides exceptional crush resistance against soil compression and surface activity, while also protecting the cable from damage during installation or from accidental shovel strikes.



Protected from Water & Chemical Damage

Integrating a fully water-blocked core and a dry water blocking system, the new cable provides superior defense against moisture ingress. The robust HDPE outer jacket is chemically inert, protecting the fiber optics from corrosive elements commonly found in soil, ensuring the cable's integrity and performance for decades.



Protected from Rodents

Rodents are a primary threat to buried cables and can cause catastrophic network failures if allowed to chew through the fibers. The stainless-steel Micro Armor acts as an impenetrable barrier, effectively preventing rats, mice and other burying rodents/animals from chewing through the cable and damaging the critical fiber optic strands within.

Patent notice: "TiniFiber® products are protected by patents in the United States and other jurisdictions (countries). This list is not exhaustive, and additional TiniFiber® products not specifically enumerated herein may also be subject to patent protection - <https://tinifiber.com/patent-notices/>