

# Micro Armor Fiber™ Assemblies

## Custom Fiber Armored Assemblies

Our leading edge Micro Armor Fiber™ Assemblies employ a unique ruggedized cable design with unmatched sizing and flexibility. A large selection of armored cables and custom assembly options are a part of C Enterprises' high quality quick-turn solutions.

*Built to meet the rigors of your system's requirements.*

### Features

Micro Armor Fiber™ Assemblies, built using Tinifiber®, utilize a patented stainless-steel tube design which reduces cable diameter up to 65% and cable weight up to 75% as compared with typical Aluminum Interlocking Armor (AIA).

Reduced cable diameter and weight allows for easier routing in tight spaces, as well as improved air flow and rack ventilation.

Cables jackets meet industry requirements for the wide range of applications employing armored and/or ruggedized cable assemblies. Smaller form factor design provides cost savings associated with shipping and installation.

Assembled in the USA.



- Diameter reduced up to 65%
- Weight reduced up to 75 %

### Available Options

Built to accommodate your connectivity needs with the following options:

- Cable Mode: Single-Mode (OS2), Multimode (OM1, OM2, OM3, OM4)
- Fiber Count: 1-144 fibers
- Fiber Type: 900 um (Buffered Fiber), 600 um (Buffered Fiber), 250 um (Loose Tube, Subunitized, Ribbon)
- Cable Jacket Rating: Riser, Plenum, LSZH, Indoor/Outdoor, OSP

### Applications

Wide range of applications include: LAN, WAN, SAN, Broadcast, CCTV, DAS, Aerial, Direct Burial, and FTTx.

### Durability

Specialized cables designed to meet application and environment requirements.

Stainless-steel coiled tubing surrounded in Kevlar® provides excellent tensile strength, rodent protection, and crush resistance.

Available with steel braiding and water-blocking yarn.

Cable suitable for tight bend environments.

Connectors exceed industry standards for mechanical performance, optical performance, and reliability.

### Agency / Standard Compliance

#### Cable:

- RoHS Compliant
- UL Rated
- NEC Jacket Ratings
- ANSI/ICEA S-87-640
- Corning Optical Fiber



Depiction of a 6 Fiber OM4 Armored Plenum Cable with applicable information below:

| Parameter                     | Specification       |                      |
|-------------------------------|---------------------|----------------------|
|                               | Micro Armor         | Traditional Armor    |
| Outside Diameter:             | 6.0 mm<br>(0.24 in) | 11.3 mm<br>(0.44 in) |
| Bend Radius Installation      | 120 mm<br>(4.42 in) | 170 mm<br>(6.7 in)   |
| Bend Radius Operation         | 60 mm<br>(2.36 in)  | 113 mm<br>(4.5 in)   |
| Weight per km                 | 55 kg<br>(121 lbs)  | 103 kg<br>(227 lbs)  |
| Tensile Strength Installation | 800 N<br>(180 lbf)  | 440 N<br>(100 lbf)   |
| Tensile Strength Operation    | 600 N<br>(135 lbf)  | 132 N<br>(30 lbf)    |

