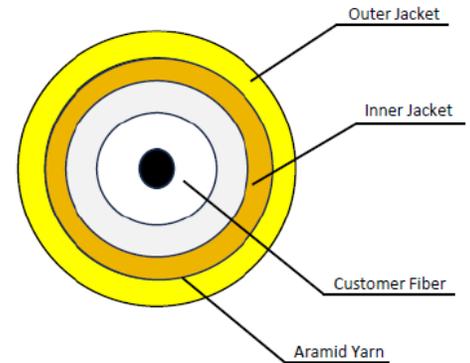


Fiber Optic Extrusion / Upjacketing Services

Opticonx offers comprehensive Extrusion and Upjacketing Services for custom fiber solutions. We can work with virtually any fiber type to deliver the solution you require. Our engineering team specializes in taking a product from concept to design and then through manufacturing. Capabilities include buffering, cabling, and jacketing a variety of fibers.

With extensive manufacturing experience and flexibility, Opticonx can custom design and manufacture fiber optic cables to specific requirements and specifications unique to your application and intended use. This can be done with in-house fibers or customer-supplied fibers. Short runs are welcome, and design consultation is available.



Available Options:

- ◆ Customer supplied fiber
- ◆ Fiber counts from 1 – 72
- ◆ Fiber types: OM1 – OM5 multi-mode, OS2 singlemode and polarization maintaining
- ◆ Tight-buffered, loose-tube, flat & rollable ribbon and other fiber types
- ◆ UL-listed ONFR and OFNP, LSZH, Indoor/Outdoor jackets
- ◆ Hybrid multi-mode / singlemode constructions
- ◆ Custom coloring and jacket printing

Capabilities:

- | | |
|---------------------------|------------------------------------------------|
| ◆ Buffering optical fiber | ◆ Ability to process a wide range of materials |
| ◆ Jacketing optical fiber | ◆ Standard and custom tooling |
| ◆ Cabling optical fiber | ◆ Short run and production quantities |
| ◆ Coloring optical fiber | ◆ Standard and custom colors |
| ◆ Furcation tubing | ◆ Custom print legends and labeling |



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Fiber Optic Extrusion / Upjacketing Services

Available Jacket (Outer Tube), Materials:

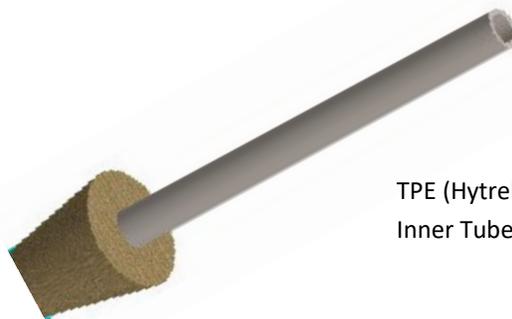
- 1 = PVDF, KYNAR FLEX® 2950-05 Standard Mod, KYNAR FLEX® 2850-00 High Mod
- 2 = TPE, Hytrel® 6356 standard, also 5556, 7246 or 8238
- 3 = LDPE, (Polyethylene), Borstar® LE8706
- 4 = Nylon, Vestamid® L2101F Nylon 12
- 5 = FR-PVC (Flame-retardant Polyvinyl Chloride), 19463
- 6 = Plenum PVC, FireGUARD® 910A-26-NL or 910A-48-NL
- 7 = LSZH HFFR TPO, (Polyolefin), MtegrityPlus™ 2545
- 8 = LSZH HFFR TPU, (Polyurethane), Extigen HFC 9140
- 9 = CPE, GEON® Flex 1335 CPE Black OR



FR-PVC Jacket
(Aqua)

Available Inner Tube Materials:

- 0 = Polypropylene, Borealis BC545MO
- 1 = PVDF, KYNAR FLEX® 2950-05 Standard Mod, KYNAR FLEX® 2850-00 High Mod
- 2 = TPE, Hytrel® 6356 standard, also 5556, 7246 or 8238
- 3 = LDPE, (Polyethylene), Borstar® LE8706
- 4 = Nylon, Vestamid® L2101F Nylon 12



TPE (Hytrel® 6356)
Inner Tube (Natural)

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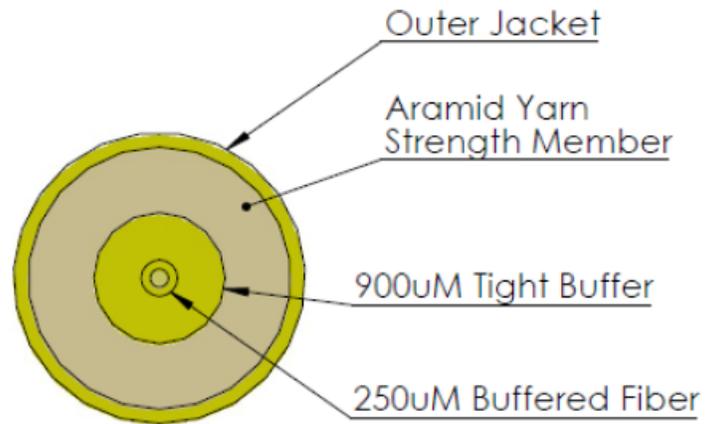
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Fiber Optic Extrusion / Upjacketing Services

Contract Manufacturing:

Opticonx can provide a variety of optical contract manufacturing services to meet customer requirements including:

- ◆ Custom configuration
- ◆ Private labeling
- ◆ Custom labeling
- ◆ Custom packaging
- ◆ Blind shipping



Important Notes for Upjacketing of customer-supplied fiber:

- ◆ ~50-100m of additional fiber is needed for production (start/stop process).
- ◆ This cabling service is made on a 'best effort' basis, meaning that while it is rare, the possibility exists that customer supplied fiber can be damaged or destroyed during the cabling process (due to power outages / fluctuations or extrusion equipment issues).
- ◆ Opticonx cannot assume liability for the cost of damaged fiber.
- ◆ Opticonx cannot replace customer supplied fiber if a manufacturing problem occurs.
- ◆ If new fiber is supplied by customers, Opticonx will run the job again at no additional cost
- ◆ Historical failure rate is ~ 1%



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