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Datasheet

## Ruggedized Sleeving and Buffering

Any Fibercore specialty fiber may be supplied in a range of ruggedized cable formats to suit many different deployment environments. A 900 $\mu$ m Outer Diameter (OD), Hytrel<sup>®</sup> up-buffer extruded directly over the existing fiber coating simplifies general handling, providing sufficient additional resilience for use within instrument racks and other relatively benign, controlled environments. Whereas, the aramid-yarn reinforced LT3 cable (3mm OD) provides essential protection in all indoor and light outdoor applications. LT3 is also available with a pull-cord (or 'mouse') to enable short lengths of fiber to be cabled-up by hand.

Fibercore offers a custom cable design and supply service for more specialized applications.

### Hytrel<sup>®</sup> Up-Buffer

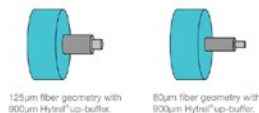
#### Low profile 900 $\mu$ m diameter protection.

Hytrel<sup>®</sup> up-buffering provides low-profile, moderate duty protection, without significant added bulk. This option is ideal for fiber that needs to be ruggedized against abrasion or other mechanical damage in a manufacturing or assembly environment. The increased thickness added by Hytrel<sup>®</sup> aids visibility, making the fiber easier to locate and pick-up from a work surface. The excellent mechanical strippability further enhances its convenience.

Any of Fibercore's Specialty Fibers may be supplied, up-buffered with an outer layer of tough Hytrel<sup>®</sup>.

### Hytrel<sup>®</sup> Up-Buffer Geometry

Diagrams (up-buffer/coating/fiber) to scale.



#### Advantages:

- Highly flexible cables for demanding deployment states
- Rugged design to withstand day-to-day use
- Small physical volume for reduced volume designs

#### Typical applications:

- Sensor cables
- Medical probes
- Beam delivery

#### Related Products:

- Patchcords
- Pigtails

#### Product Variants:

- **900 $\mu$ m Hytrel<sup>®</sup>** 900 $\mu$ m Hytrel<sup>®</sup> sleeving
- **LT3 (0.5/0.9)** PVC loose sleeve for fiber protection with 0.9mm sleeve diameter
- **LT3 (1.0/1.8)** PVC loose sleeve for fiber protection with 1.8mm sleeve diameter



### LT3 Sleeves

#### Rapid Custom Fabrication of Short Cables.

LT3 is also available without the fiber, as a blue reinforced sleeving tube, complete with nylon pull-cord. With this product it is possible to self-fabricate ruggedized cables from virtually any fiber.

Two sleeve options are available as standard, with slightly different loose tube dimensions. LT3(1.0/1.8) has a 1.8mm diameter loose tube, with 1.0mm wide bore to facilitate the threading of longer cable runs.

Alternatively, for cables where connectors are to be added the loose tube, LT3(0.5/0.9) with 0.9mm diameter (0.5mm bore) is a standard fit.

### Specifications

	900µm Hytrel®	LT3 (0.5/0.9)	LT3 (1.0/1.8)
Sheath Outer Coating (mm)	0.9		3.0
Sheath Material	Hytrel®		PVC
Loose Tube Outer Diameter (mm)	-	0.9mm (0.5 Bore)	1.8mm (1.0 Bore)
Loose Tube Inner Diameter (mm)	-	0.5	1.0
Loose Tube Material	-		Nylon (without fiber) Hytrel® (with fiber)
Reinforcement	-		Aramid Yarn
Pull Chord	No		Yes