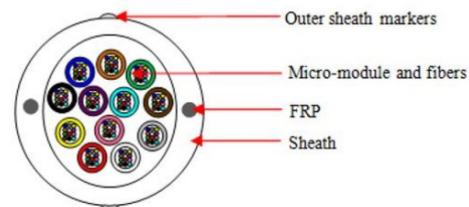




**RFS' HYBRIFLEX™** Micro fiber cable which incorporates up to two hundred and eight singlemode optical fibers. Twelve fibres are encapsulated in a breakout tube. Multiple tubes are then combined inside an LSZH jacket with embedded FRP strength members. Designed for use as part of a Radio over Fiber (RoF) solution, this cable is suitable for indoor applications. The compact dimensions and use of bend insensitive fiber enable this cable to be installed in areas with limited space and allow twelve fibres to be simply "dropped" without affecting the integrity of the cable. This cable is fully non metallic.

#### FEATURES / BENEFITS

- Incorporates singlemode optical fibers ensuring future proof connectivity for RoF (and other) high bandwidth, multi wavelength applications
- Bend insensitive G657A2 optical fiber simplifies installation and ensures RoF system performance is achieved
- The bare fibers reduce installation time and enable high density fusion splicing to be performed.
- Breakout tubes enable 12 fibers to be "dropped" without affecting the cable integrity and minimising the number of fusion splices required
- Flame retardant, LSZH materials for use inside buildings
- Compact construction allows installation in congested ducts, conduits and ceiling/floor voids.
- Fully non metallic construction permits installation within existing power and data cable ducts



## Technical features

#### STRUCTURE

|                     |  |   |
|---------------------|--|---|
| Cable Type          |  | Fiber optic cable   |
| Optical Fiber Color |  | 1. Red 2. Blue 3. Green 4. Yellow 5. Violet 6. White 7. Orange 8. Grey 9. Brown 10. Black 11. Aqua 12. Pink |

#### MECHANICAL SPECIFICATIONS

|                              |        |                 |
|------------------------------|--------|-----------------|
| Tensile Strength             | N (lb) | 500 ()          |
| Crush Resistance (Operating) |        | 1000 N / 100 mm |

#### CABLE JACKET

|                 |  |                      |
|-----------------|--|----------------------|
| Jacket Material |  | LSZH White (RAL9010) |
|-----------------|--|----------------------|

#### F/O CABLE SPECIFICATIONS

|                                 |         |   |
|---------------------------------|---------|---|
| F/O Cable Type                  |         | Single-Mode G657A2                          |
| Core/Clad                       | μm      | 9 /125                                      |
| Secondary Protection Nominal    | μm (in) | 250 ()                                      |
| Fiber Attenuation               |         | ≤ 0.35dB/km@λ=1310nm & ≤0.21dB/km λ =1550nm |
| Zero Dispersion Slope           |         | ≤0.092 ps/km nm                             |
| Mode Field Diameter (@ 1310 nm) |         | 8.8   |
| Cutoff wavelength cable         |         | ≤1260 nm                                    |

#### TESTING AND ENVIRONMENTAL

|                          |         |                         |
|--------------------------|---------|-------------------------|
| Storage Temperature      | °C (°F) | -40 to 70 (-40 to 158 ) |
| Operation Temperature    | °C (°F) | -20 to 60 (-4 to 140 )  |
| Installation Temperature | °C (°F) | -40 to 70 (-40 to 158 ) |
| LSZH Specification       |         | IEC 60332-3C            |

**FONL-XXxXXSA2-F02**

HYBRIFLEX® In Building Breakout Micro Fiber Cable, 12 to 288 Single Mode Fibers

**ADDITIONAL INFORMATION**

|                                   | FONL-01x12SA2-F02 | FONL-02x12SA2-F02 | FONL-03x12SA2-F02 | FONL-04x12SA2-F02 | FONL-08x12SA2-F02 |
|-----------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Number of Fiber</b>            | 12                | 24                | 36                | 48                | 96                |
| <b>Number of Fiber per Module</b> | 12                | 12                | 12                | 12                | 12                |
| <b>Number of Module</b>           | 1                 | 2                 | 3                 | 4                 | 8                 |
| <b>Diameter of Module</b>         | 1.3 mm            | 1.3 mm            | 1.3 mm            | 1.3 mm            | 1.3 mm            |
| <b>Outer Diameter Cable</b>       | 5.5 mm            | 6.5 mm            | 7.5 mm            | 9 mm              | 10 mm             |
| <b>Cable Bending Radius</b>       | 82.5 mm           | 97.5 mm           | 112.5 mm          | 135 mm            | 150 mm            |

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