

**FONL-XXxXXSA2-F02**

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



RFS' HYBRIFLEX™ Micro fiber cable which incorporates up to two hundred and eighty 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
Quantity of Fiber per Subtube	12
Subtube Diameter	1,3 mm
Jacket Material	LSZH White (RAL9010)

MECHANICAL SPECIFICATIONS

Crush Resistance (Operating)	1000 N / 100 mm
------------------------------	-----------------

OPTICAL SPECIFICATIONS

Fiber Type	Single-Mode G657A2
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
Core/Clad	9 µm / 125 µm
Secondary Protection Nominal	
Fiber Attenuation	$\leq 0.35\text{dB/km}@ \lambda=1310\text{nm}$ & $\leq 0.21\text{dB/km}$ $\lambda=1550\text{nm}$ dB/km
Zero Dispersion Slope	$\leq 0.092\text{ ps/km nm}$
Mode Field Diameter (@ 1310 nm)	8.8
Cutoff wavelength cable	$\leq 1260\text{ nm}$



FONL-XXxXXSA2-F02

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

ENVIRONMENTAL

Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Operation Temperature	-20°C to 60°C (-4°F to 140°F)
Installation Temperature	-40°C to 70°C (-40°F to 158°F)

VARIATION INFORMATION

Model Number	FONL-01x12SA2-F02	FONL-02x12SA2-F02	FONL-03x12SA2-F02	FONL-04x12SA2-F02	FONL-08x12SA2-F02
Outer Diameter Nominal	5.5mm (0.217in)	6.5mm (0.256in)	7.5mm (0.295in)	9mm (0.354in)	10mm (0.394in)
Number of Fiber	12	24	36	48	96
Minimum Single Bending Radius	82.5mm (3.248in)	97.5mm (3.839in)	112.5mm (4.429in)	135mm (5.315in)	150mm (5.906in)
Quantity of Subtubes	1	2	3	4	8