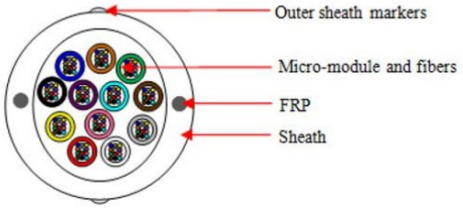
PRODUCT DATASHEET

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 eight 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 inetgrity of the cable. This cable is fully non metallic.



FEATURES / BENEFITS

- Incoprates 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 celing/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

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

ADDITIONAL INFORMATION

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

External Document Links

Notes

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