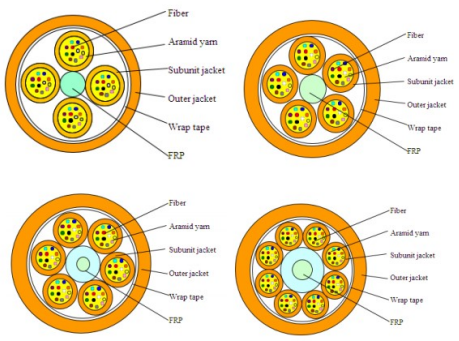
PRODUCT DATASHEET

FONL-XXxXXSA1-F00

HYBRIFLEX® Fiber optic Cable, Single-Mode Fiber

RFS' HYBRIFLEX ™ Non metallic micro fiber cable which incorporates up to twenty four singlemode optical fibers, encapsulated with aramid yarns inside an LSZH jacket. 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.



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.
- 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. White 2. Blue 3. Orange 4. Green 5. Brown 6. Grey 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Aqua The second set of 12 fibers with black rings is separated from the first set of 12, and the color of NO.20 fiber is natural.

CABLE JACKET

Jacket Material		LSZH Yellow

F/O CABLE SPECIFICATIONS

F/O Cable Type		Single-Mode G657A1
Core/Clad	µm	9 /125
Secondary Protection Nominal	µm (in)	240 ()
Single Bending Radius	mm (in)	10 (0.394)
F/O Standards (Meets or Exceeds)		G657A1
Fiber Attenuation		Max: ≤ 0.5dB/km@λ=1310nm & ≤0.4dB/km λ =1550nm
Zero Dispersion Slope		≤0.092 ps/km nm2
Dispersion (1285 - 1340 nm)		-3.5 ~ 3.5ps/(nm km)
Mode Field Diameter (@ 1310 nm)		8.8
Cutoff wavelength cable		≤1260 nm

TESTING AND ENVIRONMENTAL

Storage Temperature	°C (°F)	0 to 60 (32 to 140)
Operation Temperature	°C (°F)	0 to 60 (32 to 140)
Installation Temperature	°C (°F)	0 to 60 (32 to 140)
LSZH Specification		IEC 60332-3C

ADDITIONAL INFORMATION

	FONL-01x04SA1-F00	FONL-01x08SA1-F00	FONL-01x24SA1-F00	FONL-04x12SA1-F00	FONL-08x12SA1-F00
Number of Fibers	4	8	24	48	96
Outer Diameter Cable	3.0 mm	3.0 mm	3.8 mm	9.6 mm	13.3 mm

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

Cable Weight	8.3 kg / km	8.3 kg / km	10.8 kg / km	87 kg / km	163 kg / km
Cable Bending Radius Inst.	60 mm	60 mm	76 mm	192 mm	266 mm
Cable Bending Radius Oper.	30 mm	30 mm	38 mm	96 mm	133 mm
Cable Tensile Strength Inst.	100 N	100 N	150 N	500 N	500 N
Cable Tensile Strength Oper.	30 N	30 N	50 N	150 N	150 N
Crush Resistance	350 N / 100 mm	350 N / 100 mm	350 N / 100 mm	500 N / 100 mm	500 N / 100 mm
Quantity of Subunits	---	---	---	4	8
Diameter of Subunit	---	---	---	3.0 mm	3.0 mm

External Document Links

Notes

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