

**FONT-XXx01SA1-F00**

HYBRIFLEX® Fiber optic Cable, Single-Mode Fiber



RFS' HYBRIFLEX® Non metallic break-out cable which incorporates eight individually ruggedised singlemode optical fibers. Designed for use as part of a Radio over Fiber (RoF) solution, this cable is suitable for indoor applications. A fiber reinforced plastic (FRP) central core acts as an additional non metallic strength member in addition to the individual aramid yarns of the sub units allowing installation in complex routings where cable snagging is likely.

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 ruggedised sub units enable individual fibres to be "broken out" of the main cable and run to wall outlets without the need for a separate "break out" box
- Fully non metallic construction permits installation within existing power and data cable ducts
- Flame retardant, LSZH materials for use inside buildings
- Ruggedised construction simplifies installation

Technical Features**STRUCTURE**

Cable Type	Fiber optic cable
Quantity of Subtubes	1
Subtube Diameter	2,0 mm
Jacket Material	LSZH Yellow

MECHANICAL SPECIFICATIONS

Crush Resistance (Operating)	1000 N / 100 mm
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OPTICAL SPECIFICATIONS

Fiber Type	Single-Mode G657A1
Core/Clad	9 µm / 125 µm
Secondary Protection Nominal	240µm (0.009in)
Fiber Attenuation	Max: ≤ 0.5dB/km@λ=1310nm & ≤0.4dB/km λ =1550nm dB/km
Zero Dispersion Slope	≤0.092 ps/km nm
Dispersion (1285 - 1340 nm)	-3.5 ~ 3.5ps/(nm km)
Mode Field Diameter (@ 1310 nm)	8.8
Cutoff wavelength cable	≤1260 nm



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ENVIRONMENTAL

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

VARIATION INFORMATION

Model Number	FONT-08x01SA1-F00	FONT-10x01SA1-F00	FONT-12x01SA1-F00	FONT-24x01SA1-F00	
Outer Diameter Nominal	9.8mm (0.386in)	10.9mm (0.429in)	12.4mm (0.488in)	14.4mm (0.567in)	
Cable Weight	0.097kg/m (0.065lb/ft)	0.122kg/m (0.082lb/ft)	0.15kg/m (0.101lb/ft)	0.2kg/m (0.134lb/ft)	
Number of Fiber	8	10	12	24	
Minimum Single Bending Radius	98mm (3.858in)	109mm (4.291in)	124mm (4.882in)	144mm (5.669in)	
Minimum Multi Bending Radius	196mm (7.717in)	218mm (8.583in)	248mm (9.764in)	288mm (11.339in)	
Tensile Strength (Operating)	200 N	200 N	200 N	400 N	
Tensile Strength (Installation)	660 N	660 N	660 N	1320 N	