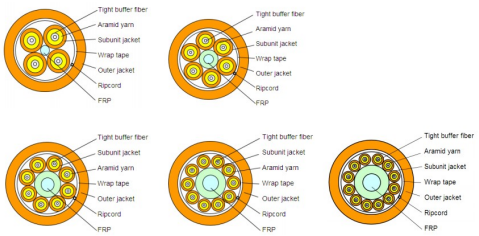
PRODUCT DATASHEET

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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

- 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 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
MECHANICAL SPECIFICATIONS		
Crush Resistance (Operating)		1000 N / 100 mm
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 Cable Jacket		LSZH Yellow
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 nm
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)	-20 to 60 (-4 to 140)
Operation Temperature	°C (°F)	-20 to 60 (-4 to 140)
Installation Temperature	°C (°F)	-20 to 60 (-4 to 140)
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 ASSEMBLIES

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Number of Fiber	8	10	12	24
Cable Diameter	9.8 mm	10.9 mm	12.4 mm	14.4 mm
Subunit Cable Diameter	2.0 mm	2.0 mm	2.0 mm	2.0 mm
Cable Weight	97 kg / km	122 kg / km	150 kg / km	200 kg / km
Cable Bending Radius Inst.	196 mm	218 mm	248 mm	288 mm
Cable Bending Radius Oper.	98 mm	109 mm	124 mm	144 mm
Cable Tensile Strength Inst.	660 N	660 N	660 N	1320 N
Cable Tensile Strength Oper.	200 N	200 N	200 N	400 N

External Document Links

Notes

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