



FIBER OPTIC INDOOR FTTH DROP FLAT CABLE



DESCRIPTION

Alantek Flat Fiber cable, which consists of 1,2 or 4 color coded optical fibers, offers an ideal solution for the smaller fiber counts that are needed in the final sections of an optical network. Two parallel FRP strength members protect the optical fibers. It comes with two FRP Strength members and flat in type. The cable is completed with a LSZH jacket. It is used for Indoor Cabling for FTTx systems.

FEATURES AND STANDARDS

Standards: ITU-T G652D/G657A2 ; ANSI/TIA 568-B.3 ; IEC-60332.

Features: Compact and light weight, easy to strip and splice.

Low bending loss, ideal access cable in PON project.

Drop flat easy for cable allocation.

STRUCTURE & ENVIRONMENTAL CHARACTERISTICS

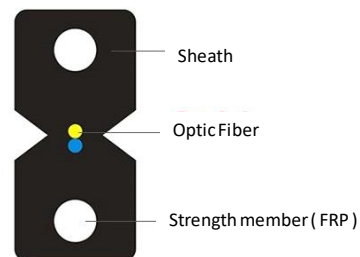
Strength Member Materials:	FRP
Strength Member Diameter:	0.4mm
Sheath:	LSZH / Ivory
Fiber Type:	ITU-T G657A1
Operating Temperature:	-20 °C to + 60°C
Storage Temperature:	-20 °C to + 60°C
Installation Temperature:	-20 °C to + 60°C

MECHANICAL CHARACTERISTICS

Fiber Count:	1 / 2
Outer Diameter:	2.0 X 3.0 mm
Cable Weight:	8.5 kg / km
Crush Resistance:	Short Term :1000N / 100mm Long Term :500N / 100mm
Tensile Load:	Short Term :80N Long Term :40N
Bending Radius:	Static : 10D mm Dynamic :20D mm
Fiber Colour:	1) Blue 2) Yellow
Maximum Attenuation:	At Wavelength 850 / 1300 nm = ≤ 3.2 / ≤ 1.2 dB/km (For OM1, OM2, OM3) At Wavelength 1310 / 1550 nm = ≤ 0.36 / ≤ 0.25 dB/km (SM)
Minimum Bandwidth:	At Wavelength 850 / 1300 nm = 500 / 500 MHz / km (OM1), 200 / 500 MHz / km (OM2), 1500 / 500 @ LED, 2000 / 500 @ Laser (OM3)
Proof Stress:	≥ 0.69 Gpa



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OPTICAL CHARACTERISTICS

Maximum Attenuation:	At Wavelength 1310 nm = ≤ 0.36 dB/km At Wavelength 1550 nm = ≤ 0.25 dB/km
Un-cabled fiber macro bending:	Maximum Attenuation at 1550 nm = 0.1 dB at Radius of 10 mm in 1 turn Maximum Attenuation at 1550 nm = 0.5 dB at Radius of 7.5 mm in 1 turn
Zero Dispersion Wavelength:	1300 ~ 1324 nm
Zero Dispersion Slope:	≤ 0.090 ps / nm ² km
PMD Link Value (M= 20 cables Q=0.01%) Max.PMDq:	0.2ps/ $\sqrt{km}$
Cable cutoff Wavelength (λ_c):	≤ 1260 nm
Mode Field Diameter @ 1310nm:	9.2 ± 0.4 μ m
Mode Field Diameter @1550nm:	10.4 ± 0.4 μ m

DIMENSIONAL CHARACTERISTICS

Cladding Diameter:	125 ± 0.7 μ m
Core / Clad concentricity error:	≤ 0.5 μ m
Cladding Non-Circularity:	$\leq 1.0\%$

OTHER INFORMATION

- 1) Cable be wound on an iron stand-wooden composite.
- 2) Standard drum length is 2000m $\pm$ 1 %.
- 3) Covered by plastic buffer sheet.
- 4) Sealed by strong wooden battens.
- 5) At least 1.1m if inner, cable should reserve for testing.
- 6) Test protocol at side of the drum.

Part Number #	Description
306-FTH-702-Y000/W	2 Core FTTH Indoor Drop Flat Cable, White, m