

1-4 Fiber All Dielectric 250 μ m FTTH Flat Drop Cable >

The Molex All Dielectric Flat Drop Cable consists of 1-4 250 μ m individually coloured optical fibers with fiber reinforced plastic (FRP) strength members and Low Smoke Zero Halogen (LS0H) jacket.

FEATURES & ADVANTAGES

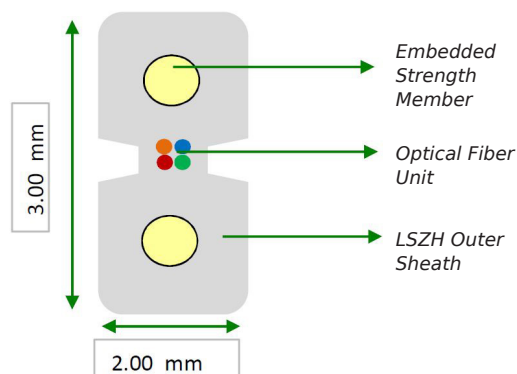
Choice of fiber types

Individually colored optical fibers

Notched construction for easy stripping

White LS0H jacket for internal use

Internal FTTH applications - horizontal and riser



SPECIFICATIONS

Construction Details

Number of elements: 4

Fiber Identification:

Blue, Orange, Green, Brown

Central Strength Member:

Fiber Reinforced Plastic (FRP) 2 Nos
(0.50 \pm 0.05mm)

Outer Sheath: LSZH (White)

Packing length: 1km or 2km per Spool

Fire performance

Smoke Emission: IEC 61034-1 & 2

Flammability: IEC 60332-1

Toxicity: IEC 60754-1

Acid Gas Emission: IEC 60754-2

RoHS Compliant

Commercial Standards

ISO/IEC 11801 - 2nd Edition

ITU-G.652D/G.657A1/G.657A2

Technical Information

Mechanical and Environmental Performance

Bend Radius:

During Installation: 15 x 3mm

After Installation: 10 x 3mm

Tensile Strength : 100N

Crush: 500N/100 mm

Impact: 5N, 10 impacts

Torsion: $\pm 180^\circ$, 25 N

Operating Temperature Range : -20 $^\circ$ C to +60 $^\circ$ C

Physical Characteristics

Core Diameter: 9.2 \pm 0.4 μ m

Cladding Diameter: 125 \pm 1.0 μ m

Coating Diameter: 242 \pm 5 μ m

Coating Cladding Concentricity Error:
 $\leq 12.0 \mu$ m

Characteristics - Optical Performance

Max. Attenuation:

At 1310nm: ≤ 0.40

At 1550nm: ≤ 0.30

PMD at 1310nm & 1550nm (Individual Fiber): ≤ 0.2 ps/ \sqrt km

Chromatic Dispersion

1285-1330nm: ≤ 3.5 ps/nm.km

1550nm: ≤ 18.0 ps/nm.km

Zero Dispersion Wavelength:

1310 to 1324nm

Zero Dispersion Slope: ≤ 0.092 ps/nm².km

Cable Cut-Off Wavelength: ≤ 1260 nm

Mode Field Diameter at 1310nm:

9.1 \pm 0.3 μ m

Core Clad Concentricity Error: $\leq 0.5 \mu$ m

Cladding Non Circularity: $\leq 0.8 \%$

Dimensions and Mass

Cable (Height): 2.0 \pm 0.2 mm

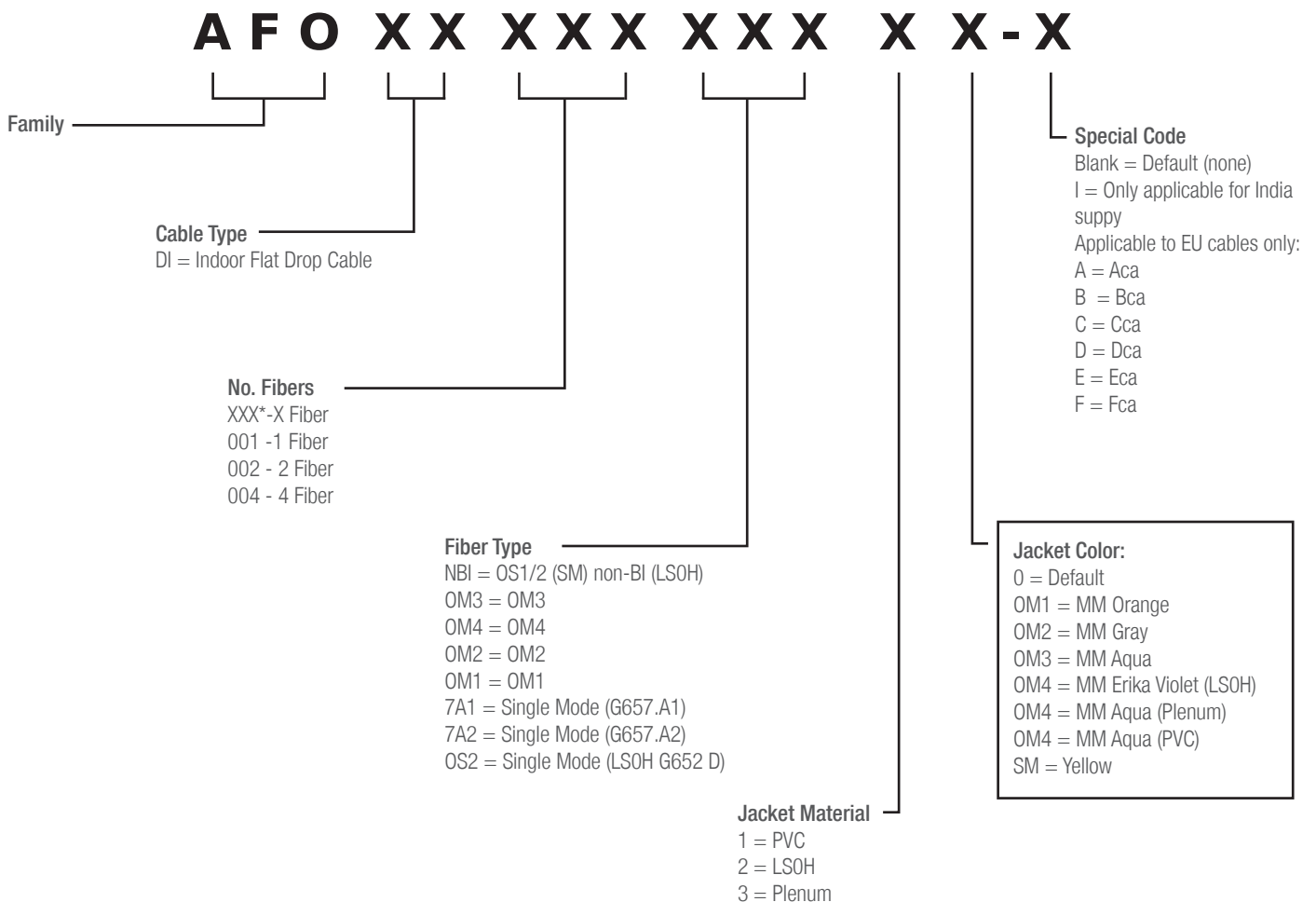
(Width): 3.0 \pm 0.2 mm

Mass (Nominal): 8.0 \pm 0.8 kg/km

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ORDERING INFORMATION

Part No. Matrix - Substitute the correct code number or letter to determine the assembly instruction



e.g. 1 Fiber Indoor FTTH Flat Drop Cable, G657A1, LSOH = AFODI0017A120