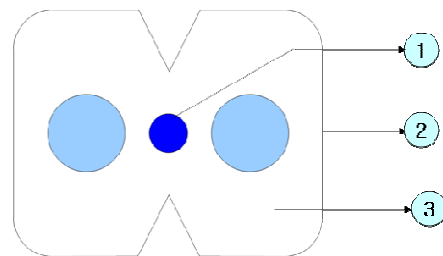
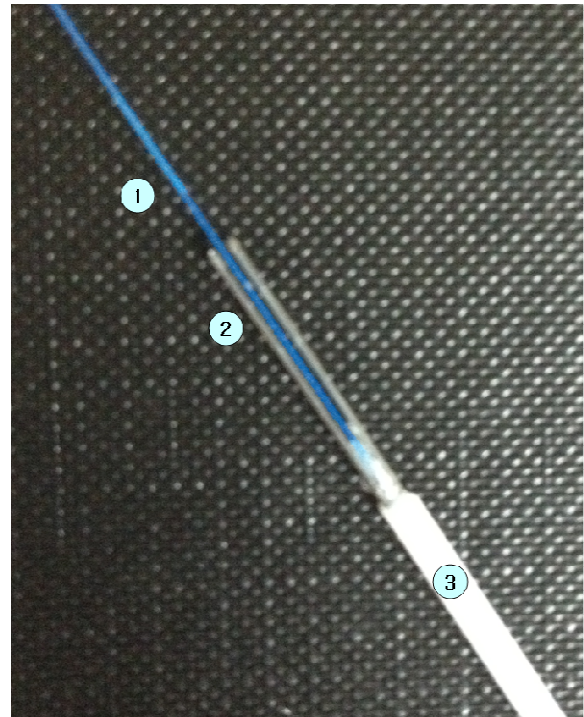


Low Friction Drop/Indoor Cable

Features and Benefits

1. Low friction cable is designed for interior buildings application in the FTTH network especially where the ducts or pipes are congested with existing copper telephone cable.
2. Optical fiber as recommendation G.657.A2 to guarantee bends of 7.5mm.
3. With the low friction anti-abrasion sheath and small diameter, cable can be installed by Pushing method without the need for pre-laying a guide inside the tube.
4. Easy removal of sheath and along with field-installable optical connectors, Low Friction Indoor Cable greatly reduces installation time and costs.
5. Use of flame retardants that slow down the spread of the flame, low smoke and zero halogen, ideal characteristics for the installation in the buildings.

NOTE: G.652.D/G.657.A1 type fiber available upon request.



Description

Construction detail

1. Optical fiber
2. Steel wires as strength member in tension and compression.
3. Low friction flame retardant, low smoke and zero halogen polyethylene sheath.

Low Friction Drop/Indoor Cable

Technical Specification

Optical characteristics

Maximum attenuation (dB/km)	Mode field diameter 1310nm	Cable cut-off wavelength	Zero dispersion wavelength (nm)	Chromatic dispersion (ps/nm.km)
1260nm~1290nm ≤0.45				1260 nm ≤ 6.35 1310 nm ≤ 1.31
1291nm~1625nm ≤0.4 1550nm ≤ 0.30	8.6~9.5 μm	<1260nm	1300~1324	1380 nm ≤ 6.98 1550 nm ≤ 18.01 1625 nm ≤ 22.07

Bending loss (mm)	15	10	7.5
Number of turns	10	1	1
Maximum attenuation at 1550nm (dB)	0.03	0.1	0.5
Maximum attenuation at 1625nm (dB)	0.1	0.2	1.0

NOTE: For G.657.A2 type fiber

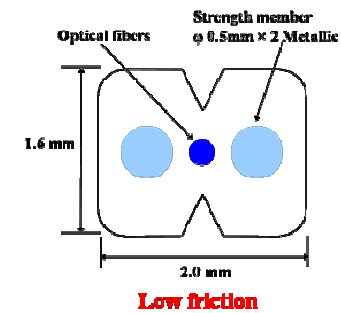
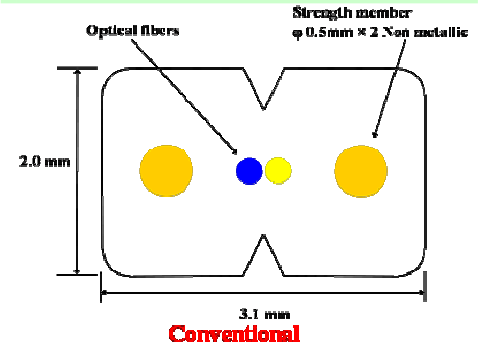
Cable Size and formation

Fiber count	1
Fiber color	Blue
Outer diameter (W×H mm)	2.0×1.6
Nominal weight (kg/km)	7

Mechanical properties

	Test method	Specification
Max. Tensile strength	IEC 60794-1-E1	220N
Impact resistance	IEC 60794-1-E4	3 J
Min. Bending radius	IEC 60794-1-E11	15 mm
Flame propagation	IEC 60332-1	Complete
Halogen emission	IEC 60754-2	pH ≥ 3.5
Smoke density	ASTM E 662	Ds(4) < 200
Standard length		500/1000 m

Comparison between indoor cables



Item	Specification	
Cable type	Low friction	Conventional
Diameter	2.0×1.6 mm	3.1×2.0 mm
Cross section	3.2 mm ²	6.2 mm ²
Tensile strength	220 N	80 N
Weight	7 kg/km	8 kg/km
Friction	≤ 0.25	≥ 1
Packing	Flip coil	Reel