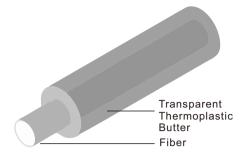
G.657.B3

0.9mm Transparent Invisible Cable

The 0.9mm diameter Transparent Invisible optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks, refer to the drop cables going from ducts in buildings into rooms. Using light and portable hand-held installation tools, installers can quickly and easily install invisible cable on wall skirting, doors and windows.

Features

- Using G657B3 optical fibers, with excellent anti-bending performance
- Small size, precisely controlled route
- Transparent, suitable for indoor application
- Compatible with G.652D and G.657A2 optical fibers



Cable	Cable	Tensile strength	Bending radius	Crush Long/short term	Storage temperature
Diameter	Weight	Long/short term	Dynamic/static	(N/100mm)	
0.9mm	0.7kg/km	3/6N	60/30mm	100/500	-20 to +60 °C



G.657.B3

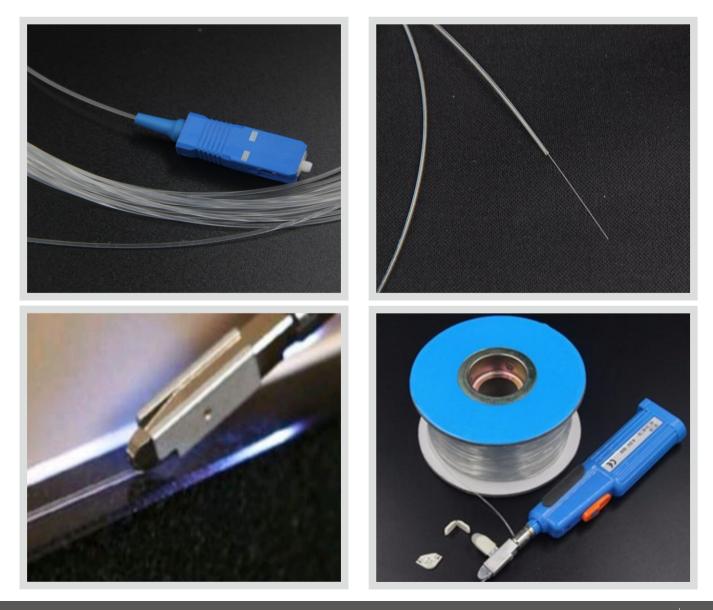
1.2mm TAC Thermal Adhesive Coated Fiber System

TAC invisible optical cable is the abbreviation for transparent tight-buffered thermal adhesive coated fiber covered with hot melt glue. It is an optical cable composed of G.657.B3 optical fiber, a transparent tight jacket layer, and a layer of hot melt adhesive. Each layer is extruded step by step using an extrusion process, with a nominal outer diameter of 1.2mm.

Glusive Jacket 0.9mm Buffer Fiber

The application of invisible optical cable is the application where the user does not accept the use of leather fiber optic cable to enter the home or solves the problem of the user's difficulty in entering the home, especially in the old residential area and office. The fiber used is G.657.B3 fiber with a minimum bending radius of 5mm. When laying, there is no need to nail, make brackets, perforate, make pipes, etc., to destroy the original indoor structure, or because of the discontinuity of the laying, the optical cable will sag and fall off and other safety hazards. At the same time, the optical cable is almost transparent so it will not affect the indoor Beautiful, simple construction method, only need hand-held heating installation tools to complete the laying project.

Cable	Cable	Tensile strength	Bending radius	Crush Long/short term	Storage temperature
Diameter	Weight	Long/short term	Dynamic/static	(N/100mm)	
1.2mm	1.0kg/km	40/80N	20/10mm	100/500	-40 to +70 °C



G.657.B3 Fiber Characteristics

The fibre's macro bending performance and optical performance are superior to those recommended in ITU-T G.657.B3 and IEC 60793-2-50 B6.b3. Down to 5 mm bending radius, it can meet the complex installation conditions in MDU and FTTH, such as wall corner, stapling, high load tension, etc.

Characteristics		Conditions	Specied values	Units	
		Optical Characteristics	I		
		1310nm	≤0.35	[dB/km]	
	_	1383nm (afterH ₂ -aging)	≤0.35	[dB/km]	
	Attenuation	1550nm	≤0.21	[dB/km]	
		1625nm	≤0.23	[dB/km]	
	Attenuationvs. Wavelength	1285-1330nm, in referenceto 1310nm	≤0.03	[dB/km]	
	Max. α di?erence	1525-1575nm, in referenceto 1550nm	≤0.02	[dB/km]	
	Zero Dispersion Wavelength (◊₀)		1300-1324	[nm]	
	Zero DispersionSlope(S ₀)		≤0.092	[ps/(nm ² ·km)]	
	Maximum Individual Fibre		≤0.1	[ps∕√km]	
PMD	Link DesignValue (M=20, Q=0.01%)		≤0.06	[ps∕√km]	
	Typical Value		0.04	[ps∕√km]	
	Cable Cuto? Wavelength(λ_{cc})		≤1260	[nm]	
	_	1310nm	8.4-9.2	[µm]	
Mode FieldDiameter (MFD)		1550nm	9.3-10.3	[µm]	
		1310nm	1.468		
E?ec	tiveGroupIndexof Refraction (N _{e[?]})	1550nm	1.469		
		1310nm	≤0.05	[dB]	
	Point Discontinuities	1550nm	≤0.05	[dB]	
		GeometricalCharacteristics			
	CladdingDiameter		125.0±0.7	[µm]	
	CladdingNon-Circularity		≤0.7	[%]	
	CoatingDiameter		235-245	[µm]	
C	pating-CladdingConcentricityError		≤12.0	[µm]	
	CoatingNon-Circularity		≤6.0	[%]	
	Core-CladdingConcentricityError		≤0.5	[µm]	
	Curl(radius)		≥4	[m]	
	DeliveryLength		Up to 25.2	[km/reel]	
	EnvironmentaCharacteristics	1310nm,1550nm& 1625nm			
Tempe	ratureDependenceInducedAttenuation	-60°C to +85°C	≤0.05	[dB/km]	
TemperatureHumidityCyclingInducedAttenuation		-10°C to +85°C, 98% RH	≤0.05	[dB/km]	
Water	soakDependenceInduced Attenuation	23°C, for 30 days	≤0.05	[dB/km]	
Damp	Heat DependenceInduced Attenuation	85°C and 85% RH, for 30 days	≤0.05	[dB/km]	
	DryHeatAging	85℃, for 30 days	≤0.05	[dB/km]	
		Mechanical Speci?cation			
			≥9.0	[N]	
	Proof Test		≥1.0	[%]	
	Γ		≥100	[kpsi]	
	1 Turn Around a Mandrel of 10 mm Radius	1550nm	≤0.03	[dB]	
	1 Turn Around a Mandrel of 10 mm Radius	1625nm	≤0.1	[dB]	
Macro-bend	1 Turn Around a Mandrelof 7.5 mm Radius	1550nm	≤0.08	[dB]	
InducedLoss	1 Turn Around a Mandrelof 7.5 mm Radius	1625nm	≤0.25	[dB]	
	1 Turns Arounda Mandrel of 5 mm Radius	1550nm	≤0.15	[dB]	
	1 Turns Arounda Mandrel of 5 mm Radius	1625nm	≤0.45	[dB]	
	CoatingStrip Force —	typicalaverageforce	1.5	[N]	
coatingstriproite		peak force	1.3-8.9	[N]	
	DynamicFatigueParameter(෦෧)		≥20		