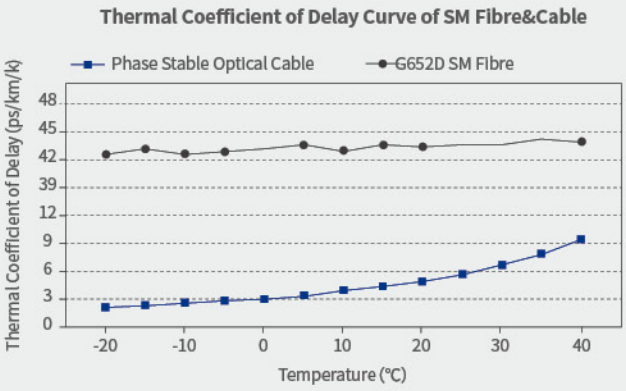
Phase Stable Optical Cable

The phase stable optical cable consisted of G.652D and organics with negative expansion coefficient. Thermal delay coefficient of the cable is below 10ps/km/k, which is tested below 40℃ . The phase stable optical cable can be applied in baseband signal transmission of synchronous measuring system, and other important domains and systems. Various optical fibres are available for the phase stable cable, according to the customer demanding.

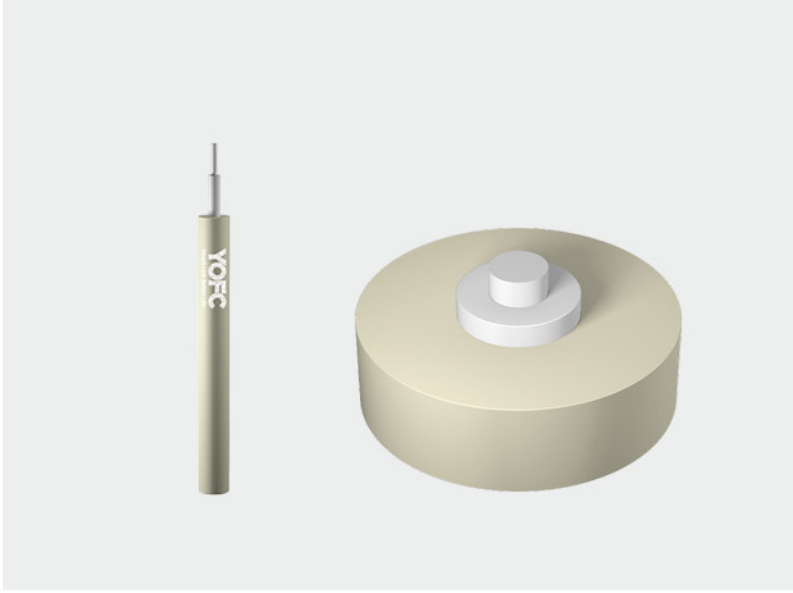


Characteristics

- Low temperature coefficient
- Miniaturization & lightweight
- High tensile strength
- Available length > 20km

Applications

- Astronomy
- Linear particle acceleration
- Quantum mechanics
- Phased-array antenna



Specifications

Optical Cable Type	PH 9/125-13/200/600C
Optical Properties	**Typical**
Wavelength (nm)	1550
Attenuation (dB/km)	＜0.5@1550nm
	＜0.5@1310nm
Geometrical Properties	
Out-Diameter (μm)	600.0 ± 50.0
Concentricity of Buffer (%)	＜6
Non-Circularity of Buffer (%)	＜3
Material	
Flame Rating	UL94 V0
Thermal Coefficient of Delay* (ps/km/k)	＜10@1550nm
Mechanical Properties	
Dynamic Bending Radius (mm)	15
Static Bending Radius (mm)	20

* Range of temperature: -20°C to 40°C

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This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information