

# FiTek Photonics Corporation

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## EZT Ruggedised Travelling Optical Cable



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## Description

The FiTek's unique traveling EZT round cable is designed with strong strength members like FRP and braided Kevlar for use in many tough environments including inside elevators. The cable also has colored tight buffered fibers in the middle of EZT cable that make it work well for transmitting signal and also enhance the anti-bending performance. The cable structure is designed with a double jacket and has the TPU on an outer jacket to have excellent high impact, crushing, abrasion resistance during traveling.

## Features

- Anti-Bending Performance : The cable is designed to prevent bending loss increase in small curves.
- Great Cable Tensile Strength : With multi-FRP and braided Kevlar, it provides high-strength support than normal indoor flat cables.
- Abrasion Resistance : With TPU material on outer jacket to enhance the abrasion ability.
- Flame Retardant and RoHS/REACH Compliant



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## Specifications

EZT Ruggedised Travelling Optical Cable		
Fiber Count	4	
Maximum Attenuation (dB/km)	0.4	@1310 nm
	0.3	@1550 nm
Sub-Cable Diameter (mm)	5.5 ± 0.3	
Cable Diameter (mm)	7.0 ± 0.5	
Strength Member	Kevlar+FRP	
Max Tensile Strength (N)	2000	
Max Crush Load (N/100mm)	4000	
Min Bending Radius (mm)	10D	
Jacket Material/Color	TPU/Black	
Operating Temperature	-20°C ~ +70°C	
Standards	<ul style="list-style-type: none"><li>• Tensile Strength(TIA/EIA-455-33A)</li><li>• Crush Test(TIA/EIA-455-41A)</li><li>• Repeated Bending(TIA/EIA-455-104A)</li><li>• Impact Test(TIA/EIA-455-25B)</li><li>• Torsion Test(TIA/EIA-455-85A)</li></ul>	



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G652D/G657A1 Single Mode Fiber	
Core	9.0±1 μm
Clading	125±2 μm
Coating	245±15 μm
Cladding Non-circularity	≤ 1 %
Core Non-Circularity	≤ 1 %
Core/Clad Eccentricity	≤ 0.6
Max Attenuation	@1310 nm ≤ 0.35 db/km @1550 nm ≤ 0.3 db/km
Dispersion	@1310 nm ≤ 3.5 ps/nm-km @1550 nm ≤19 ps/nm-km
Zero Dispersion Wavelength	@1310±10 μm
Cutoff Wavelength	≤1260 nm
Refractive Index	@1310nm 1.470 @1550nm 1.470
Proof Test	100 kpsi

