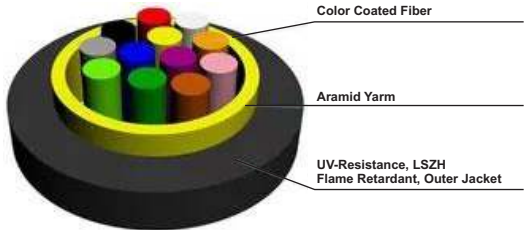
TMT Global
TECHNOLOGY FZE

MULTI CORE INDOOR/OUTDOOR FIBER CABLE SERIES



TMT GLOBAL Single mode Indoor/outdoor Optical Fiber Cable
Tight Buffered 12-Core HDPE

TMT GLOBAL provides high-strength optical fiber cables for use in various industrial, indoor, and outdoor applications. Offering unique properties and benefits for different types of use, our communications optical fiber cable products can easily meet complex application requirements and specifications.
TMTGLOBAL optical fiber cable FTTH ,FTTX , indoor/outdoor SM/MM, OS1,OS2 ,OM1,OM2,OM3,OM4 is compliant with ISO/IEC and ANSI/TIA Standard.

PHYSICAL DESCRIPTION	
Products	Fiber optic cable single mode
Tight Buffered	HFFR (900µm)
Fiber Type	G.652D
Tube material	PBT (Polybutylene Terephthalate)
Strength	Aramid yarn
Packing Detail	
Fiber Count	6,8,12,24,48,96,128
Tube Outer/Inner Diameter(mm)	3.0/2.0 ±
Cable Diameter(mm)	7.2*-12
Cable Weight(kg/km)	45±
Length/ Drum	2000 m Drum ±5%
Ripcord	Polyester cord
Outer Jacket	MDPE, BLACK,GREEN

Mechanical and Environmental Properties		
Physical tests	Value	Standard
Tensile Strength	2700 N (during Installation) 1700 N (during Operation)	IEC 60794-1-E1
Impact Resistance	10J, 3 impacts	IEC 60794-1-E4
Crush Resistance	220 N/cm	IEC 60794-1-E3
Temperature Cycling	-40 to +70 °C	IEC 60794-1-F1
Flame Retardancy	According to IEC 60332-3	IEC 60332-3
Cable Bending Radius		
Bend Radius (during installation)	20x cable diameter	IEC 60794-1-2-E11A
Bend Radius (during Service)	10x cable diameter	IEC 60794-1-E11
Repeating Bending	20x cable diameter	IEC 60794-1-E6
Temperature Range)		
Operation Temperature	-40 to +70 C	IEC 60794-1-2-F1
Storage and Transportation Temperature	-40 to +70 C	
Installation Temperature	-30 to +60 C	

Optical Characteristics			
Fiber type	**ITU-T G.652D**	**ITU-T G.657/A1**	**ITU-T G.657/A2**
Attenuation (max)	0.40 dB/km (1310 nm) 0.25 dB/km (1550 nm)	0.40 dB/km (1310 nm) 0.25 dB/km (1550 nm)	0.35 dB/km (1310 nm) 0.22 dB/km (1550 nm)
MFD	9.0±0.4 µm (1310 nm) 10.1±0.5 µm (1550 nm)	9.0±0.4 µm (1310 nm) 10.1±0.5 µm (1550 nm)	8.6 ± 0.4 µm (1310 nm)
Cladding diameter	125 ± 0.3 µm	125 ± 0.7 µm	125 ± 0.7 µm
Core/Clad Concentricity error	≤ 0.5 µm	≤ 0.5 µm	≤ 0.5 µm
Zero dispersion wavelength	1300nm≤ ≤1324nm	1300nm≤ ≤1324nm	1302nm≤ ≤1322nm
Cladding non-circularity	≤ 0.7 %	≤ 0.7 %	1%
Coating diameter	245 ± 10 µm	242 ± 7 µm	240 ± 5 µm
Cut Off Wavelength	≤ 1260nm	≤ 1260nm	≤ 1260nm
Proof Test	≥ 1% (100kpsi or 0.7GPa)	≥ 1% (100kpsi or 0.7GPa)	≥ 1% (100kpsi or 0.7GPa)
Macro bending Attenuation : (10 turn on a 15 mm radius mandrel)		≤ 0.25 dB @1550 nm	≤ 0.5dB @1550 nm

Model No	Product ID	Ordering Information
TMT-3021	TMT-121TPK	12CORE SINGLE MODE INDOOR/OUTDOOR FIBER OPTIC CABLE G.652D