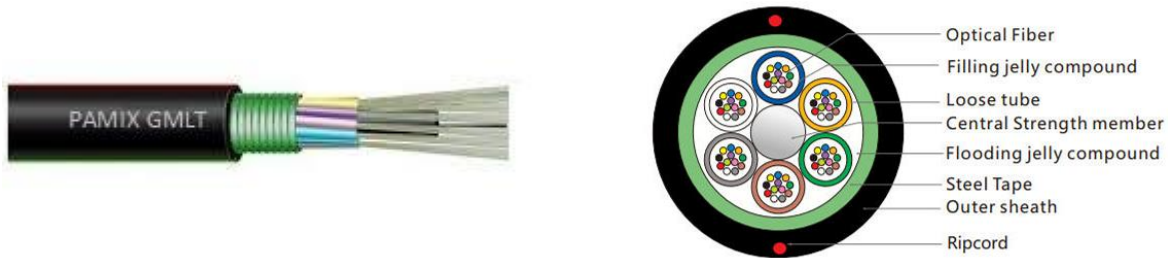


Outdoor Optical Fiber Cable

GMLT-SS15 Multi Loose Tube, Corrugated Steel Tape, Steel Member Strength, Single Jacket



Fiber Type	SM G.652.D
Attenuation at 1310 nm	≤ 0.36 dB/km
Attenuation at 1383 nm	≤ 0.32 dB/km
Attenuation at 1550 nm	≤ 0.22 dB/km
Attenuation at 1625 nm	≤ 0.24 dB/km

Application

Suitable for underground ducts & laying on cable trays and can be used for direct buried applications. High protection against rodents, thanks to PAMIX armored corrugated steel layer.

General Construction

Central strength member, Multi Loose tube structure each loose tube is filled with jelly compound and flood jelly compound for water blocking, Corrugated steel tape for high protection against rodents and better crush resistance. PE outer jacket protect the cable from UV radiation and prevent water penetration. Rip cords for easier cable stripping.

Due to its construction, the cable gain its good mechanical and temperature performance, prevent loose tube shrinking and hydrolysis resistant.



Cable Design

Cable Type	Outdoor Steel Armored
Fiber Type	SM G652D
Outer Sheath Material	PE
Color	Black
Outer Sheath Thickness	1.5 mm ± 0.1
Maximum Optical Fiber Cores	72
Number of fibers per loose tube	Up to 12 fibers
Loose Buffer Tube	PBT (Polybutylene terephthalate)
Filling Compound in Loose Tube	Thixotropic Jelly Compound
Filling Compound Between Loose Tube	Flooding Jelly Compound
Central Strength Member	1.9 mm Steel
Tube Thickness	1.8 mm
Armoring	Corrugated Steel Tape
Corrugated Steel tape Thickness	0.2 mm
Ripcord	Yes, under outer sheath
Cable Outer Diameter	9.5± 0.5mm
Tensile Strength (Long/Short)	600 / 1500 N
Crush Load (Long/Short)	300 / 1000 (N/100mm)
Bending Radius (Long/Short)	10D / 20D
Operating temperature	-40 - +60 °C



Fiber Identification Colors

All fiber cores are individually identified by colored quoting up to 12 colors according to EIA/TIA 598



Optical Characteristics

Core / Cladding		9/125 μm
Coating diameter		250 μm
Zero Dispersion Wavelength		1300-1324 nm
Zero Dispersion Slope		$\leq 0.092 \text{ ps}/(\text{nm}^2.\text{km})$
Mode Field Diameter @ 1310nm		$9.2 \pm 0.4 \mu\text{m}$
Mode Field Diameter @ 1550nm		$10.4 \pm 0.8 \mu\text{m}$
Cable Cut-Off Wavelength, λ_{cc}		$\leq 1260 \text{ nm}$
Point discontinuity @ 1310nm & 1550nm		$\leq 0.05\text{dB}$
Attenuation Uniformity		$\leq 0.05\text{dB}/\text{km}$
Attenuation coefficient difference for bi-directional measurement		$\leq 0.05\text{dB}/\text{km}$
	1310nm	$\leq 0.36\text{dB}$
	1383nm	$\leq 0.32\text{dB}$
Attenuation	1550nm	$\leq 0.22\text{dB}$
	1625nm	$\leq 0.24\text{dB}$
	1285 – 1340 nm	-3.0-3.0 ps/(nm.km)
Dispersion	1550nm	$\leq 18 \text{ ps}/(\text{nm.km})$
	1625nm	$\leq 22 \text{ ps}/(\text{nm.km})$



Cable Marking

PAMIX GMLT-SS15 Outdoor Optical Fiber Cable Armored <Product Number> <Number of fiber cores> SM G652D <Lot No.> <meter count>

Standards

The cable is manufactured and tested according to following industry standards

Tensile Loading Test	IEC 60794-1-2 E1
Crush Test	IEC 60794-1-2 E3
Impact Resistance Test	IEC 60794-1-2 E4
Repeated Pending test	IEC 60794-1-2 E6
Torsion/Twist Test	IEC 60794-1-2 E7
Temperature Cycling Test	IEC 60794-1-2 F1
Water Penetration Test	IEC 60794-1-2 F5B

Ordering Information

Description	Art. Number
PAMIX GMLT- SS15 Outdoor Optical fiber SM G.652.D Cable 4 x 6 cores, SM, single jacket, Steel Tape.	1012700
PAMIX GMLT- SS15 Outdoor Optical fiber SM G.652.D Cable 2 x 12 cores, SM, single jacket, Steel Tape.	1012701
PAMIX GMLT- SS15 Outdoor Optical fiber SM G.652.D Cable 3 x 12 cores, SM, single jacket, Steel Tape.	1012702
PAMIX GMLT- SS15 Outdoor Optical fiber SM G.652.D Cable 4 x 12 cores, SM, single jacket, Steel Tape.	1012703
PAMIX GMLT- SS15 Outdoor Optical fiber SM G.652.D Cable 6 x 12 cores, SM, single jacket, Steel Tape.	1012704

* Other cable design can be customized based on customer request