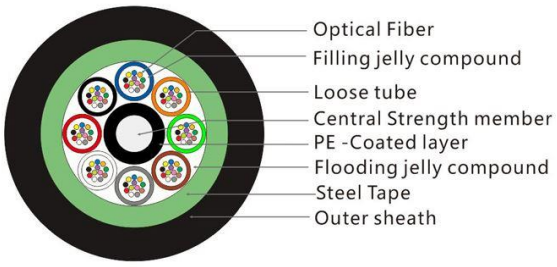
Outdoor Optical Fiber Cable

GMLT-SS20 Multi Loose Tube, Corrugated Steel Tape, Steel Member Strength, Single Jacket, 96 Fibers



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 direct buried. 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	1.6 mm ± 0.1
Fiber cores	96 fibers
Maximum Number Of Loose Tubes	8
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	2.0mm Steel
Loose Tube Thickness	1.9 mm
Armoring	Corrugated Steel Tape
Corrugated Steel tape Thickness	0.20 mm
Cable Outer Diameter	11.2± 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

Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Optical Characteristics

Core / Cladding		9/125 µm
Coating diameter		250 µm
Zero Dispersion Wavelength		1300-1324 nm
Zero Dispersion Slope		≤ 0.092 ps/(nm².km)
Mode Field Diameter @ 1310nm		9.2 ± 0.4 µm
Mode Field Diameter @ 1550nm		10.4 ± 0.8 µm
Cable Cut-Off Wavelength, λ cc		≤ 1260 nm
Point discontinuity @ 1310nm & 1550nm		≤ 0.05dB
Attenuation Uniformity		≤ 0.05dB/km
Attenuation coefficient difference for bi-directional measurement		≤ 0.05dB/km
Attenuation	1310nm	≤ 0.36dB
	1383nm	≤ 0.32dB
	1550nm	≤ 0.22dB
	1625nm	≤ 0.24dB
Dispersion	1285 – 1340 nm	-3.0-3.0 ps/(nm.km)
	1550nm	≤ 18 ps/(nm.km)
	1625nm	≤ 22 ps/(nm.km)

Cable Marking

PAMIX GMLT-SS20 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-SS20 Outdoor Optical fiber SM G.652.D Cable 8 x 12 cores, SM, single jacket, Steel Tape.	1012730

* Other cable design can be customized based on customer request