

SPECIFICATIONS

The fiber cable shall contain up to 24 fibers and have a loose tube construction that is water-blocked, UV resistant and armored for harsh outdoor environmental demands. In order to be compact and lightweight, the cable shall use a central loose tube design. It shall comply with common industry standards for outside plant applications and have options for singlemode (OS2) or multimode fibers (OM3, OM4) to support 10 Gb/s network transmission.



KEY FEATURES AND BENEFITS

Gel-filled tube and water-blocking yarn:	Blocks water from entering the cable and damaging the optical fibers
Corrugated steel tape armor:	Provides crush resistance
UV resistant outer jacket:	Resists degradation due to sunlight exposure
Central tube design:	Allows smaller cable diameter and lighter weight versus stranded tube design
Highest quality OM3 and OM4 laser optimized fiber:	Supports 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems

STANDARDS

IEC 60794-3	RoHS Compliant
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APPLICATIONS

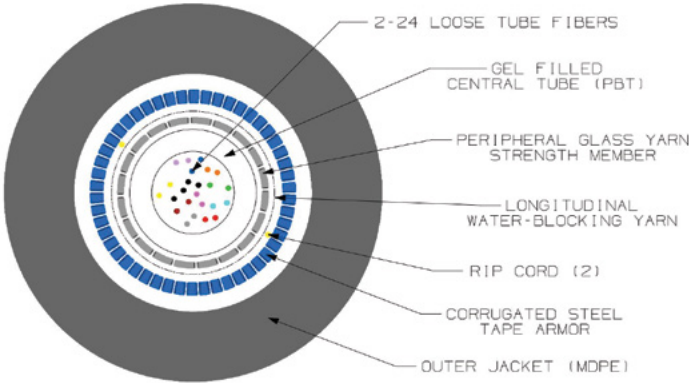
- Designed for outside plant installation in ducts
- Supports network transmission speeds up to 10 Gb/s for link lengths up to 300 meters for OM3 and up to 550 meters for OM4 with an 850nm source per IEEE 802.3ae 10 GbE standard

FIBER COLOR SEQUENCE

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Fibers 13 through 24 repeat this color sequence and have a Black tracer. Fiber 20 is colored "Natural" with a Black tracer.

2 to 24-Fiber Cable



Opti-Core™ Gel-Filled Armored Central Tube Outside Plant Cable

PHYSICAL AND MECHANICAL PROPERTIES

Cable construction:	250µm coated fibers in gel-filled tube, glass strength yarns, water-blocking yarns, 2 ripcords, corrugated steel tape armor, black outer jacket (MDPE)
Outside diameter (nominal):	8.3mm
Bend radius (installation/short term):	16.6cm
Bend radius (operation/long term):	8.3cm
Weight:	90 kg/km
Tensile strength (installation/short term):	2670 N
Tensile strength (operation/long term):	800 N, fiber strain ≤ 0.2%
Compressive strength (crush):	2200 N/100mm
Temperature range:	Storage: -40°C to +0°C Installation: -30°C to 60°C Operation: -40°C to 70°C

OPTICAL PROPERTIES

Maximum attenuation:	OS2 singlemode (ITU-T G.652.D):	0.4dB/km @1310nm 0.3 dB/km @1550nm	OM3 multimode: 3.5dB/km @ 850nm 1.5 dB/km @ 1300nm
			OM4 multimode: 3.5dB/km @ 850nm 1.5 dB/km @ 1300nm

PART NUMBER CONFIGURATOR

*Example: FLSN912, 9µm OS2 12 Fiber Outside Plant Armored Central Tube Cable, 250µm Fibers

Character	1	2	3	4	5	6	7
Example	F	L	S	N	9	1	2

1, 2- Fiber Product	FL = Fiber (Asia Pacific)	6, 7- Fiber Count	02 = 2-fiber
3 - Cable Construction	S = Gel-filled armored outside plant, central tube (up to 24 fibers)		04 = 4-fiber
4 - Flame Rating	N = Non Rated		06 = 6 fiber
5 - Fiber Type	9 = OS2 9/125µm		08 = 8 fiber
	X = OM3 10 GbE 50/125µm		12 = 12 fiber
	Z = OM4 10 GbE 50/125µm		24 = 24 fiber
		For fiber counts greater than 24, see Panduit OptiCore FLWN*** Cables, which use a stranded tube design.	

Country of Origin - China

