

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

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.



application

- 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

standards

IEC 60794-3

RoHS Compliant

key features and benefits

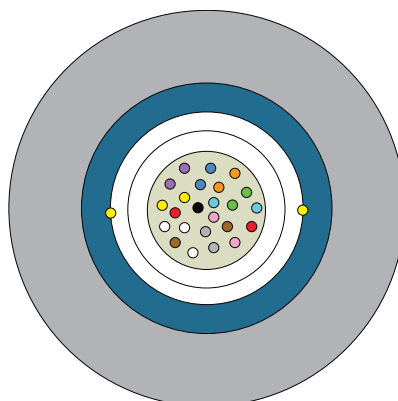
Gel-filled tube and water-blocking yarn	Blocks water from entering the cable and damaging the optical fibers
Corrugated steel tape armor	Provides crush resistance
UV Resistant outer jacket	Resists degradation due to sunlight exposure
Central tube design	Allows smaller cable diameter and lighter weight 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

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



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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 +70°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

ordering information

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

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

1 and 2 – Fiber Product

FL = Fiber (Asia Pacific)

3 – Cable Construction

S = Gel-filled armored outside plant, central tube (up to 24 fibers)

4 – Flame Rating

N = Non-rated

5 – Fiber Type

9 = OS2 9/125µm

X = OM3 10 GbE 50/125µm

Z = OM4 10 GbE 50/125µm

6 and 7 – Fiber Count

02 = 2-fiber

04 = 4-fiber

06 = 6 fiber

08 = 8 fiber

12 = 12 fiber

24 = 24 fiber

For fiber counts greater than 24, see Panduit OptiCore™ FLWN*** Cables, which use a stranded tube design.

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