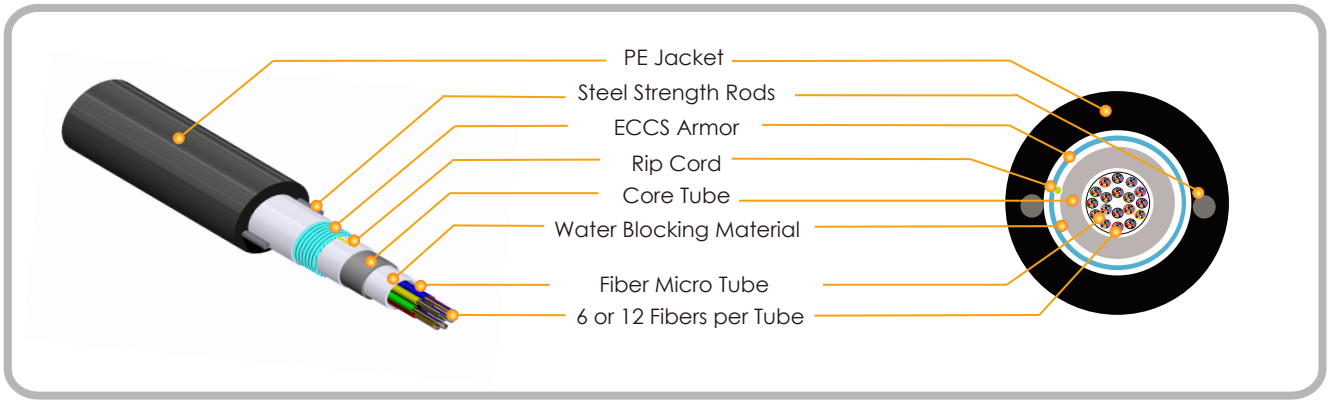
Tubes/T™ PM

ECCS Armor Type

Constructions



Description

The **Tubes/T™** PM cable is Tube-in-Tube cable structure, this cable contains 2 ~18 fiber micro tubes which are encased in a dry central tube, the inner tube is soft, flexible and can be peeled without any tool. This cable has an overlapping corrugated electrolytic chrome-coated steel (ECCS) tape armor and uses two steel rods to run longitudinally along the armor. Compared with traditional fiber bundle central core cable and loose tube cable, the **Tubes/T™** cable has advantages in saving time for cable preparation. Fiber counts from 6 to 216 fibers.

Applications

- Local area networks
- Outside plant distribution system
- Long haul trunking and feeder
- Duct or direct buried installation
- CATV, CCTV, telecommunication

Specifications

Fiber Count		6 ~ 48	60 ~ 96	144 ~ 216
Fibers Per Tube		6 or 12	12	
Strength Member		Steel Strength Rods		
Inside Micro Tube		Water Blocking Material		
Wrapping		Water Blocking Material		
Sheath		Black PE (LSZH for option)		
Cable Diameter: mm(approx)		13.5	15	18
Cable Weight: kg/km(approx)		175	210	270
Maximum Tensile Strength		2700 N		
Min. Bend Radius	Loaded:	20 times of cable diameter		
	Unloaded:	10 times of cable diameter		

** LSZH: Low Smoke Zero Halogen.*

Features and Benefits

- Corrugated ECCS armor for durability and rodent resistance
- Central Tube cable design provides best fiber protection
- Inner fiber tube is gel-free water blocking
- Dry water blocking cable core design for less cable preparation time
- Small cable diameter and light weight for easy duct installation
- To integrate benefits of both traditional Central Tube and Loose Tube cable

Color Code

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua	**Blue**	**Orange**	**Green**	**Brown**	**Slate**	**White**

**** Color arrangement would be changed to meet customers' requests, for 146 ~ 216 cores color will be same as code1 ~ code 6 with extra marks.***

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UFO COMMUNICATION

Tubes/T™ PM

Product Information

Fiber Specification

Fiber Attenuation	Singlemode	1310nm ≦ 0.4 dB/km
		1550nm ≦ 0.3 dB/km
	Multimode	850nm ≦ 3.5 dB/km
		1300nm ≦ 1.0 dB/km
Bandwidth(MM)	OM2-50/125	850nm ≧ 500 MHz-km
		1300nm ≧ 500 MHz-km
	OM3-50/125	850nm ≧ 1500 MHz-km
		1300nm ≧ 500 MHz-km
	62.5/125	850nm ≧ 200 MHz-km
		1300nm ≧ 500 MHz-km

PMD		< 0.2 ps/km $^{1/2}$
Mode-Field Diameter(SM)	G.652D	1310nm: 9.0 ~ 9.4μm, ± 0.4μm
		1550nm: 10.0 ~10.7μm ± 0.7μm
	G.657A	1310 nm: 8.6 ~ 9.4 μm, ± 0.4 μm
		1550 nm: 9.6 ~10.7 μm ± 0.7 μm
Multimode Core	50	50 μm ± 3 μm
	62.5	62.5 μm ± 3 μm
Cladding Diameter		125 μm ± 1 μm
Coating Diameter		250 μm ± 15 μm (colored)

Mechanical Specification (added attenuation: dB)

Tensile Strength	TIA/EIA-455-33	Singlemode ≦ 0.2 ; Multimode ≦ 0.3
Crush Resistance	TIA/EIA-455-41	Singlemode ≦ 0.2 ; Multimode ≦ 0.3
Cyclic Flexing	TIA/EIA-455-104	Singlemode ≦ 0.2 ; Multimode ≦ 0.3
Impact Resistance	TIA/EIA-455-25	Singlemode ≦ 0.2 ; Multimode ≦ 0.3
Cable Twist	TIA/EIA-455-85	Singlemode ≦ 0.2 ; Multimode ≦ 0.3

** Compliant with Telcordia GR-20-Core and EIA/TIA standards.*

Environmental Conditions

Temperature Range	Storage	-40℃ to + 70℃
	Operating	-30℃ to + 70℃
	Installation	-30℃ to + 70℃

Ordering Information

Cable Type	Tubes/T PM
Fiber Count	Max. 216
Fiber Type	Singlemode: G.652D, G.657A Multimode: OM1, OM2 or OM3
Fiber Bundle	6 or 12
Jacket Type	PE or LSZH(Low Smoke Zero Halogen) Jacket

Specific values are subject to change without notice.

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