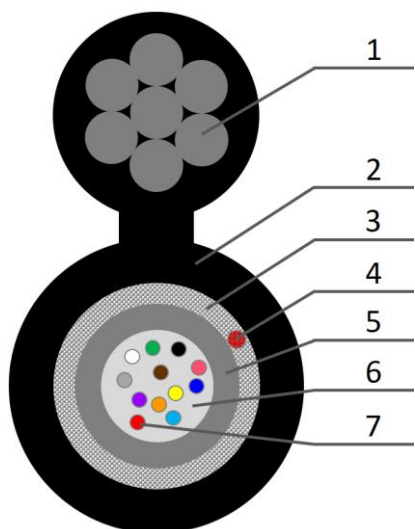


Figure 8 Central Tube FOC, Messenger

Cable Cross-Section



Cable Structure

1. Steel Messenger
2. MDPE Outer Sheath
3. Strength Member (Aramid Yarn)
4. Ripcord
5. Loose Tube (PBT)
6. Tube Filling Compound (thixotropic gel)
7. Optical Fibers (SM G.652D)

Cable Specification

Number of Fibers		4F	6F	8F	12F
Optical Fiber					
	Fiber type	ITU-T G.652D Sumitomo PureBand			
Loose Tube					
	Number	1			
	Filling material	Thixotropic Jelly			
	Tube material	PBT			
	Tube diameter	2,9 ± 0,1 mm			
Peripheral strength member		Aramid yarn / E-Glass yarn			
Suspension Wire					
	Material	Steel Rope			
	Diameter	7 x 0,7 mm			
Pole Span (m)		60			
Outer sheath					
	Material	MDPE			
	Thickness	1,5 ± 0,1 mm			
Nom. Cable					
	Diameter (mm)	6,9 x 14,4 ± 1,5 mm			
	Net weight (kg/km)	82			
	Drum length (m)	2000 ± 5%			

Color Details

No.		1	2	3	4	5	6	7	8	9	10	11	12
Fiber Color	4	Blue	Orange	Green									
	6	Blue	Orange	Green	Brown	Slate	White						
	8	Blue	Orange	Green	Brown	Slate	White	Red	Black				
	12	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua
Tube Color	4	Natural											
	6	Natural											
	8	Natural											
	12	Natural											
Sheath Color		Black UV											
Marking		0000M	KST Ltd. YYYY	Aerial		Drum No.		Sumitomo G.652D				0001M	

Mechanical & Environmental Characteristics

Test		Test Standards	Specified Value
Optical Attenuation	- 1310nm	IEC 60793-1-40	≤ 0.36 dB/km
	- 1550nm	IEC 60793-1-41	≤ 0.22 dB/km
Tensile Strength	- Short Term	IEC 60794-1-2-E1	Max. 2000N
	- Long Term	IEC 60794-1-2-E2	Max. 1200N
Crush Resistance		IEC 60794-1-2-E3	150N/cm
Min. Bending Radius	- Static	IEC 60794-1-2-E11	20 x D
	- Dynamic	IEC 60794-1-2-E12	15 x D
Impact Resistance		IEC 60794-1-2-E4	4,4 Nm
Torsion		IEC 60794-1-2 E7	± 180°
Temperature Range (°C)	- Installation	IEC 60794-1-2-F1	- 10°C to + 60°C
	- Operation	IEC 60794-1-2-F1	- 40°C to + 70°C

D : Cable outer diameter

Packing :

- ❖ Non-returnable wooden drum
- ❖ Strong wooden batten protection
- ❖ Cable ends are accessible for a test



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