



**Description:**

The fibers, 250 μ m, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with water-resistant thixotropic jelly. A steel wire, sometimes sheathed with polyethylene for cable with high fiber count, locates in the center of core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. The PSP is longitudinally applied over the cable core, which is filled with the filling compound to protect it from water ingress. The cable is completed with a black PE or LSOH sheath.

**Features:**

- Good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber
- Crush resistance and flexibility
- Compact structure design to prevent loose tube from shrinking

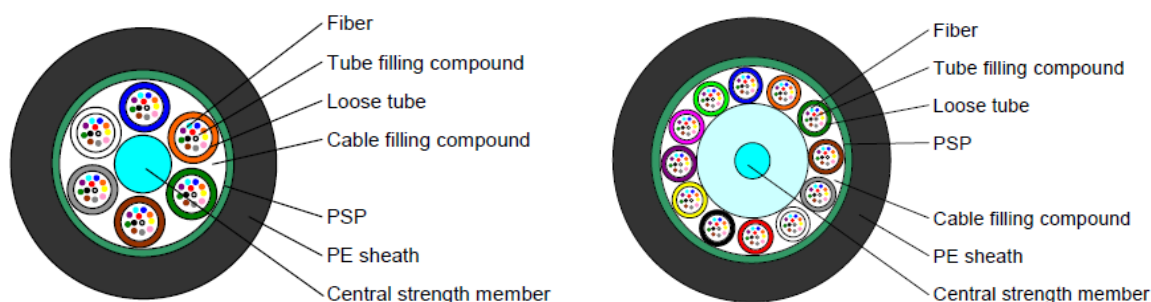
**Compliances:**

- ITU-T G651 / ITU-T G652D
- ANSI/TIA B.3, EIA/TIA 492
- IEC-60793, IEC-60794
- RoHS
- IEC 60332-1

**Applications:**

- Suitable for direct buried, aerial or duct installation

**Drawing:**



Note: Drawings are the 72 Fibers and 144Fibers PE sheath cable as examples

**Structure & Environmental Characteristics:**

Loose Tube	Material	PBT
Strength Member	Material	Steel Wire
	Material	Corrugated Steel Tape
Moisture Barrier	Material	Cable Jelly
Sheath	Material	PE/LSOH, black
Operating Temperature	-40°C to +70°C	
Storage / Transport Temperature	-40°C to +70°C	
Installation Temperature	-40°C to +70°C	

**Mechanical Characteristics:**

Fiber Count	Outside Diameter (mm)	Cable Weight (kg/km)	Tensile Load		Crush Load		Bend Radius	
			Short Term	Long Term	Short Term	Long Term	Static (mm)	Dynamic (mm)
			(N)	(N)	(N)	(N)		
2~30	9.2	103	1500	600	1000	300	10D	20D
32~36	9.7	122	1500	600	1000	300	10D	20D
38~60	10.2	126	1500	600	1000	300	10D	20D
62~72	11.0	146	1500	600	1000	300	10D	20D
74~96	12.6	176	1500	600	1000	300	10D	20D
98~120	13.8	205	1500	600	1000	300	10D	20D
122~144	15.5	248	1500	600	1000	300	10D	20D

**Fiber Color Code:**

No. of fiber	1	2	3	4	5	6
Color of fiber	Blue	Orange	Green	Brown	Grey	White
No. of fiber	7	8	9	10	11	12
Color of fiber	Red	Black	Yellow	Violet	Pink	Aqua

**Loose Tube Color Code:**

No. of tube	1	2	3	4	5	6
Color of tube	Blue	Orange	Green	Brown	Grey	White
No. of tube	7	8	9	10	11	12
Color of tube	Red	Black	Yellow	Violet	Pink	Aqua

**Optical Performance:**

	Wavelength	9/125µm	50/125µm	62.5/125µm	50/125µm(OM3)	50/125µm(OM4)
Max. Attenuation	850 / 1300nm	--	≤ 3.2 / ≤ 1.2	≤ 3.2 / ≤ 1.2	≤ 3.2 / ≤ 1.2	≤ 3.2 / ≤ 1.2
dB/km	1310 /1550nm	≤ 0.36 / ≤ 0.22	--	--	--	--
Minimum Bandwidth	850 / 1300nm	--	500 / 500	200 / 500	1500 /500@LED	3500 /500@LED
MHz· km					2000 /500@Laser	4700 / 500@Laser

**Ordering Information:**

Part No. 2652xyzzz

Description Premium Line Fiber optic outdoor cable, steel armored with central steel wire strength member, Multi-tube

x, mode 1: MM 62.5/125 2: SM 9/125 3: MM 50/125 4: MM/OM3 9: MM/OM4

y, outer sheath 2: LSOH 3: PE

zzz, fiber count 002 / 004 / 006 / 012 / 024 / 036 / 048 / 072 / 096 / 144

**Packing Information:**

1. cable be wound on an iron stand-wooden composite
2. standard drum length is 2000m ±1%
3. covered by plastic buffer sheet
4. sealed by strong wooden battens
5. at least 1.1m of inner end of cable should be reserved for testing
6. test protocol at side of the drum

**Premium-Line Systems GmbH, Rosenheimer Str.89, D-83064 Raubling, Germany****► TEL: +49(0)8035 9836 0 ► Fax: +49(0)8035 9836 22**