Description:

The fibers, 250µm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire locates in the center of core as a metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular cable core. After an Aluminum Polyethylene Laminate (APL) moisture barrier is applied around the cable core, this part of cable accompanied with the stranded wires as the supporting part are completed with a polyethylene (PE) sheath to be figure 8 structures.

Features:

- High tensile strength of stranded wires meet the requirement of self-supporting and reduce the installation cost.
- Good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber

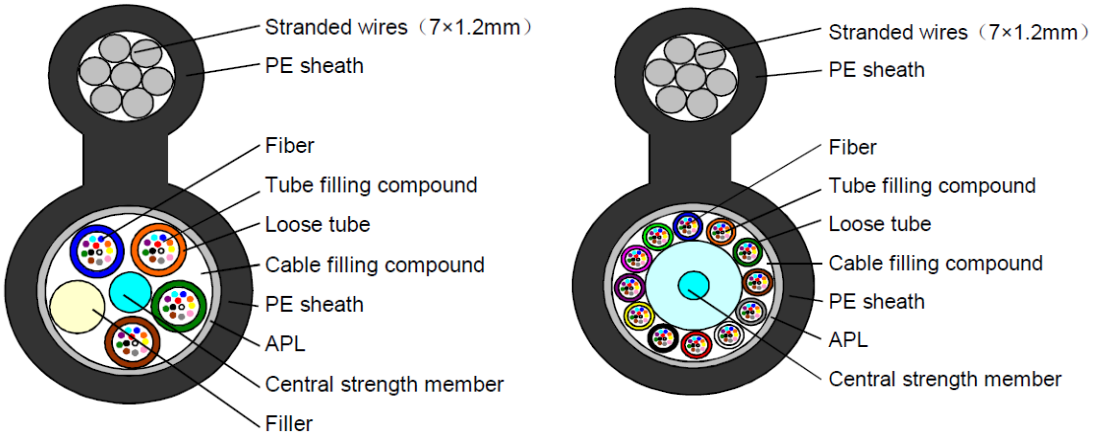
Compliances:

- ITU-T G652D
- ANSI/TIA 568.3-D
- IEC-60794
- RoHS

Applications:

- Suitable for direct buried and duct installation
- Outside plant environments

Drawing:



Note: Drawings are the 48 Fibers and 144 Fibers PE sheath cable as examples

Structure & Environmental characteristics:

Loose Tube	Material	PBT
Peripheral Strength Member	Material	Steel Wire / 7*1.2mm
Wrapping	Material	Aluminum Polyethylene Laminate
Sheath	Material / Color	PE / black
Operating temperature range	-40°C to +70°C	
Storage / transport temperature range	-40°C to +70°C	
Installation temperature range	-40°C to +70°C	

Mechanical characteristics:

Fiber Count	Tubes	Fillers	Fiber Count	Outside Diameter (mm)	Cable Weight (kg/km)	Tensile Load		Crush Load	
						Short Term (N)	Long Term (N)	Short Term (N)	Long Term (N)
2/4C	1	4	2/4	5.6*9.0*16.6	161	1500	600	1000	300
6C	1	4	6	5.6*9.0*16.6	161	1500	600	1000	300
8C	2	3	4	5.6*9.0*16.6	161	1500	600	1000	300
12C	2	3	6	5.6*9.0*16.6	161	1500	600	1000	300
24C	4	1	6	5.6*9.0*16.6	161	1500	600	1000	300
36C	6	0	6	5.6*9.3*16.9	165	1500	600	1000	300
48C	4	1	12	5.6*10.2*17.8	179	1500	600	1000	300
72C	6	0	12	5.6*10.8*18.4	199	1500	600	1000	300
96C	8	0	12	5.6*12.3*19.9	220	1500	600	1000	300
144C	12	0	12	5.6*15.2*22.8	286	1500	600	1000	300

* Bend Radius: static (10D), dynamic (20D), “D” is cable diameter.

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**

Premium Line Systems GmbH reserves the right to change specifications without prior notice.

Optical performance:

	wavelength	9/125 µm
Max. Attenuation (dB/km)	1310 /1550nm	≤ 0.36 / ≤ 0.22

Ordering information:

Part No.	269223xxx
Description	Fiber optic figure 8 cable, multi-tube, APL, SM9/125, PE
xxx, fiber count	002 / 004 / 006 / 008 / 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

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