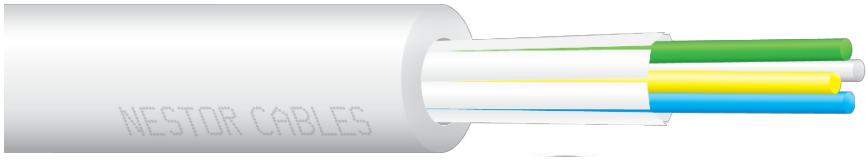
Distribution Tight Buffer IN/OUT Optical Cable (FTMSU)

Specification

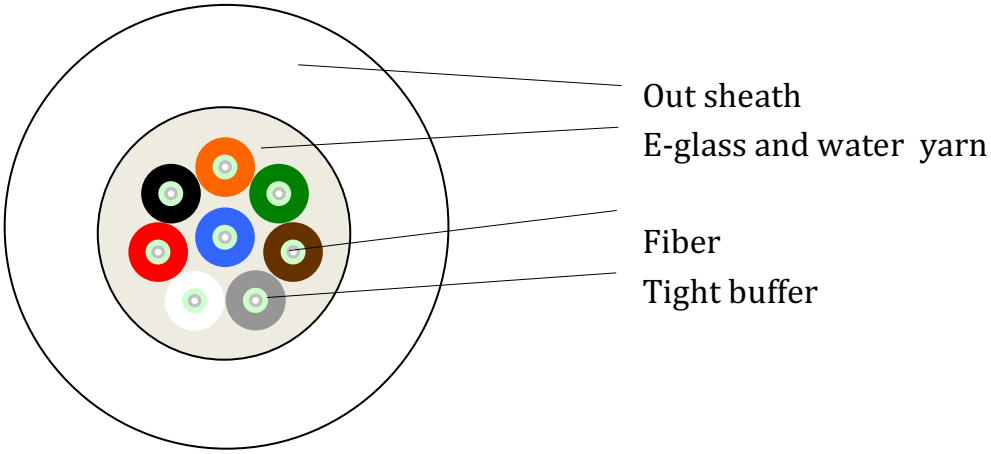
1. *Cable Description*

Distribution Tight Buffer Optical Cable use 4~12 core 900μm tight buffer fiber as optical communication medium.
The tight buffer fiber wrapped with E-glass member and water yarn as strength member, then completed with a layer of LSZH material as out jacket.

2. *Cable Drawing*



<Cross-sectional Drawing of Cable>



Note : Structure drawing just for reference, please check the following details.

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3. Application

- Used in pigtails and patch cords
- Used as interconnect lines of equipments, and used in optical connections in optical communication rooms and optical distribution frames
- Used in indoor and outdoor cabling, especially used as distribution cable

4. Characteristics :

- Good mechanical and environmental characteristics
- Flame retardant characteristics meet the requirements of relevant standards
- The mechanical characteristics of jacked meet the requirements of relevant standards
- Soft,flexible,easy to lay and splice,and with big capacity data transmission
- Meet various requirements of market and clients.

5. Cable construction details :

Technical Parameters:											
Cable Count	Outside Diameter	Tight buffer Diameter	Weight	Minimum allowable Tensile Strength (N)		minimum allowable Crush Load (N/100mm)		Minimum Bending Radius (MM)		Storage temperature	Working temperature
	(MM)	(MM)	(KG)	short term	long term	short term	long term	short term	long term	(℃)	(℃)
04	5.7	0.9	22.00	600	200	1000	200	20D	10D	-40+60	-40+60
06	5.7	0.9	23.00	600	200	1000	200	20D	10D	-40+60	-40+60

6.

Standard color of tight buffer

The color of the tight buffer, shall be in accordance with the table as below:

7.

Standard Colour Identification						
No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Slate	White
No.	7	8	9	10	11	12
Color	Red		Yellow	Violet	Pink	Aqua

Cable Mechanical characteristic

Fiber style		Unit	SM G657.A1	MM 50/125	MM 62.5/125
condition		nm	1310/1550	850/1300	850/1300
attenuation		dB/km	≤0.36/0.23	≤3.0/1.0	≤3.0/1.0
Dispersion	1310nm	Ps/(nm*km)	≤18	.....	.....
	1550nm	Ps/(nm*km)	≤22	.....	.....
Bandwidth	850nm	MHZ. KM	.....	≧400	≧160
	1300nm	MHZ. KM	.....	≧800	≧500
Zero dispersion wavelength		nm	≧1302, ≤1322	.....	.....
Zero dispersion slope		nm	≤0.091	.....	.....
PMD Maximum Individual Fiber			≤0.2	.....	.....
PMD Design Link Value		Ps(nm2*km)	≤0.08	.....	.....
Fiber cutoff wavelength λc		nm	≧1180,≤1330	.....	.....
Cable cutoff wavelength λcc		nm	≤1260	.....	.....
MFD	1310nm	um	9.2±0.4	.....	.....
	1550nm	um	10.4±0.8	.....	.....
Numerical Aperture(NA)			.....	0.200±0.015	0.275±0.015
Step(mean of bidirectional measurement)		dB	≤0.05	≤0.10	≤0.10
Irregularities over fiber length and point discontinuity		dB	≤0.05	≤0.10	≤0.10
Difference backscatter coefficient		dB/km	≤0.03	≤0.08	≤0.10
Attenuation uniformity		dB/km	≤0.01	.....	.....
Core diameter		um	.....	50±1.0	62.5±2.5
Cladding diameter		um	125.0±0.1	125.0±0.1	125.0±0.1
Cladding non-circularity		%	≤1.0	≤1.0	≤1.0
Coating diameter		um	242±7	242±7	242±7
Coating/chaffinch concentrically error		um	≤12.0	≤12.0	≤12.0
Coating non circularity		%	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error		um	≤0.6	≤1.5	≤1.5
Curl(radius)		um	≤4	.....	.....

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