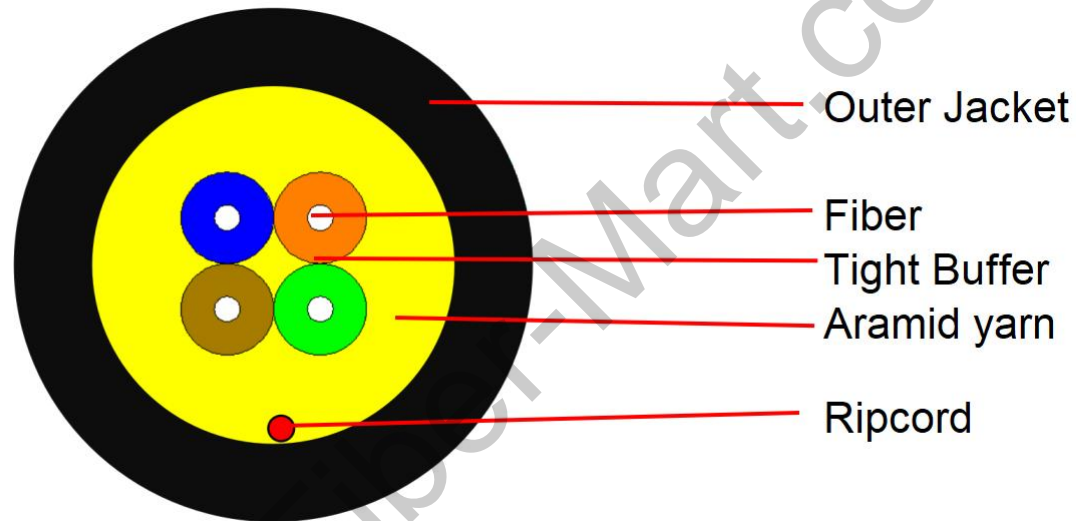


Distribution Tight Buffer Optical Cable 4F PU Black OD5.0

1. Cable structure:



2. Cable construction details :

Items		Description
Number of fiber		4F
Tight Buffer	Material	LSZH
	Color	Blue, Orange, Green, Brown
	Diameter	0.9±0.05mm

Strength member	Material	Aramid yarn
Outer sheath	Material	PU
	Color	Black Matt
	Diameter	5.0±0.3mm
Operation and transport temperature (°C)		-20+70
Min Bending Radius(mm)	static	10D
	dynamic	20D
Tensile Strength(N)	Short term	900
Crush Load (N/100mm)	Long term	500
	Short term	1000

4.Optical characteristics

Fiber style	Unit		SM G652D	SM G657A1	SM G657A2	MM 50/125	MM 62.5/125	MM OM3-150	MM OM3-300	MM OM4	MM OM5	
condition	nm		1310/1550	1310/1550	1310/1550	850/1300	850/1300	850/1300	850/1300	850/1300	850/1300	
attenuation	dB/km		0.36/0.22	0.36/0.22	0.36/0.22	3.0/1.5	≤3.0/1.5	≤3.0/1.5	≤3.0/1.5	≤3.0/1.5	≤3.0/1.5	
Relative wavelength attenuation change @1310nm @1550nm	nm	1282~1330	≤0.03dB/km	≤0.05dB/km	≤0.05dB/km	-	-	-	-	-	-	
	nm	1525~1575	≤0.02dB/km	≤0.05dB/km	≤0.05dB/km	-	-	-	-	-	-	
Dispersion over wavelength range	ps/ (nm.km)	1285~1340nm	≥-3.0 ≤3.0	≤3.5	≤3.5	-	-	-	-	-	-	
	ps/ (nm.km)	1550nm	≤18	≤18	≤18	-	-	-	-	-	-	
	ps/ (nm.km)	1625nm	≤22	-	-	-	-	-	-	-	-	
OFL bandwidth	MHz.km	850nm	-	-	-	-	-	≥700	≥1500	≥3500	≥3500	
	MHz.km	1300nm	-	-	-	-	-	≥500	≥500	≥500	≥500	
Effective modal bandwidth	MHz.km	850nm	-	-	-	-	-	≥950	≥2000	≥4700	≥4700	
Zero dispersion wavelength	nm		1312±10	1300~1324	1300~1324	1295~1320	1320~1365	-	-	-	-	
Zero dispersion slope	ps/ (nm ² .km)		≤0.092	≤0.092	≤0.092	1295~1300	≤0.001 (λ ₀ -1190)	≤0.097	-	-	-	-
						1300~1320	≤0.11					

Application support distance on 10 G Ethernet	m	-	-	-	-	-	150	300	550	600
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Geometrical Characteristics

Cladding diameter	um	124.8±0.7	125±0.7	125±0.7	125±1	125±1	125±2	125±2	125±2	125±0.8
Core non-circularity	%	-	-	-	≤5.0	≤5.0	≤5.0	≤5.0	≤5.0	≤5.0
Core diameter	um	-	-	-	50±2.5	62.5±2.5	50±2.5	50±2.5	50±2.5	50±2.5
Cladding non-circularity	%	≤0.7	≤0.7	≤0.7	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0	≤0.6
Coating / cladding concentricity error	um	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0	≤10.0
core / cladding concentricity error	um	≤0.5	≤0.5	≤0.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.0

Environmental	1310nm & 1550nm & 1625nm	1300nm & 850nm
Temperature dependence Induced attenuation	-60°C~+85°C ≤0.05dB/km	-60°C~+85°C ≤0.15dB/km
Temperature-humidity cycling Induced	-10°C~+85°C,98%RH ≤0.05dB/km	-10°C~+85°C,98%RH ≤0.2dB/km
Watersoak dependence Induced attenuation	23°C,for 30days ≤0.05dB/km	23°C,for 30days ≤0.2dB/km
Damp heat dependence Induced attenuation	85°C and 85%RH,for 30days ≤0.05dB/km	85°C and 85%RH,for 30days ≤0.2dB/km
Dry hest aging	85°C ≤0.05dB/km	85°C ≤0.2dB/km

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