

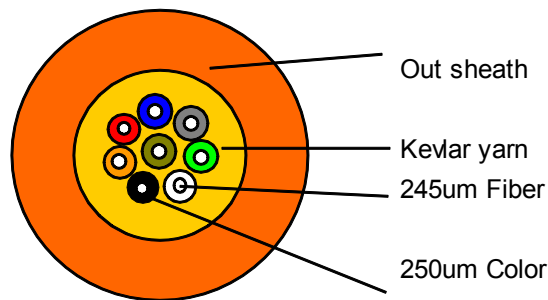
Cable general design

Adopted to indoor distribution. As pigtail of communication equipment. Suitable for floor connection.

High strength kevlar yarn member.

More 250um color fiber design.

Round construction. Soft. Easy to strip.



Cable construction details

Number of fiber	8		
Color fiber	diameter	250um	
Strength member	material	Kevlar yarn	
Overall cable diameter	2.0mm+/-0.2		
Cable weight per km	4.0kg/km		

Tight buffer color	1	2	3	4	5	6	7	8
	Blue	Orange	Green	Brown	Grey	White	Red	Black

Cable Mechanical characteristic

core	Cable diameter	weight
8	2.0mm+/-0.2mm	4.0kg/km
Temperature range	-20+60	----
Min Bending Radius(mm)	Long term	10D
Min Bending Radius(mm)	Short term	20D
Min allowable Tensile Strength(N)	Long term	30
Min allowable Tensile Strength(N)	Short term	100
Installation temperature (°C)	-20+60	





Fiber characteristic

Fiber style	Unit	SM G652	SM G652D	MM 50/125	MM 62.5/125	MM OM3-300
condition	nm	1310/1550	1310/1550	850/1300	850/1300	850/1300
attenuation	dB/km	≤	≤	≤	≤ 3.0/1.0	≤ 3.0/1.0
		0.36/0.23	0.36/0.23	3.0/1.0	----	----
Dispersion	1550nm	Ps/(nm*km)	----	≤ 18	----	----
	1625nm	Ps/(nm*km)	----	≤ 22	----	----
Bandwith	850nm	MHZ.KM	----	----	400	160
	1300nm	MHZ.KM	----	----	800	500
Zero dispersion wavelength	nm	1300-1324	1302, ≤ 1322	----	----	1295, ≤ 1320
Zero dispersion slope	nm	≤ 0.092	≤ 0.091	----	----	----
PMD Maximum Individual Fibr		≤ 0.2	≤ 0.2	----	----	≤ 0.11
PMD Design Link Value	Ps(nm ² *km)	≤ 0.12	≤ 0.08	----	----	----
Fibre cutoff wavelength λ _c	nm	1180, ≤ 1330	1180, ≤ 1330	----	----	----
Cable sutoff wavelength λ _{cc}	nm	≤ 1260	≤ 1260	----	----	----
MFD	1310nm	um	9.2+/-0.4	9.2+/-0.4	----	----
	1550nm	um	10.4+/-0.8	10.4+/-0.8	----	----
Numerical Aperture(NA)		----	----	0.200+/-0.015	0.275+/-0.015	0.200+/-0.015
Step(mean of bidirectional measurement)	dB	≤ 0.05	≤ 0.05	≤ 0.10	≤ 0.10	≤ 0.10
Irregularities over fiber length and point	dB	≤ 0.05	≤ 0.05	≤ 0.10	≤ 0.10	≤ 0.10

Dicontinuity

Difference backscatter coefficient	dB/km	≤ 0.05	≤ 0.03	≤ 0.08	≤ 0.10	≤ 0.08
Attenuation uniformity	dB/km	≤ 0.01	≤ 0.01			
Core diameter	um			50+/-1.0	62.5+/-2.5	50+/-1.0
Cladding diameter	um	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1
Cladding non-circularity	%	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Coating diameter	um	242+/-7	242+/-7	242+/-7	242+/-7	242+/-7
Coating/chaffinch concentricity error	um	≤ 12.0	≤ 12.0	≤ 12.0	≤ 12.0	≤ 12.0
Coating non circularity	%	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0
Core/cladding concentricity error	um	≤ 0.6	≤ 0.6	≤ 1.5	≤ 1.5	≤ 1.5
Curl(radius)	um	≤ 4	≤ 4	----	----	----