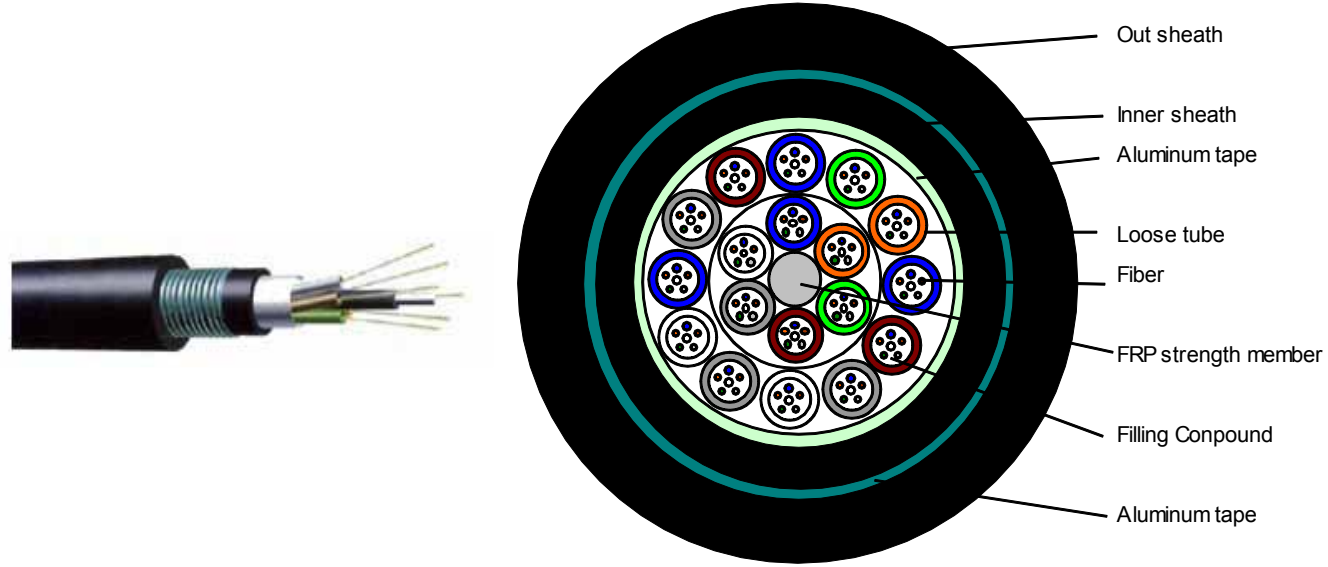


Cable general design

Adopted to Outdoor distribution.
 Suitable for aerial duct and buried method.
 FRP strength.filler protect tube fiber.steel tape armord.
 Good ultra violet radiation resistant property.
 Double sheath and Double armored..Good moisture-resistance.



Cable construction details

Number of fiber	196	
Loose tube	number	18
	material	PBT
	diameter	2.0mm+/-0.2mm
Central strength member	material	E-glass fiber FRP member
	diameter	1.8mm+/-0.5mm
Moisture Barrier	Water blocking system	
Amoring	Aluminum tape	
Overall cable diameter	22.0mm	
Cable weight per km	448.0 kg/km	

Tube and fiber color

Fiber number	Tube number	Fiber per tube	Tube color		
			196	18	12 F/Tube
Brown	Grey	White			
Red	Black	Yellow			
Violet	Pink	Aqua			
Blue	Orange	Green			
Brown	Grey	White			

Number of fiber per tube 12cores	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Grey	White
	7	8	9	10	11	12
	Red	Black	Yellow	Violet	Pink	Aqua

Cable Mechanical characteristic

core	Cable diameter	weight
196	22.0mm+/-0.5mm	448.0kg/km
Temperature range	-40+70	----
Min Bending Radius(mm)	Long term	10D
Min Bending Radius(mm)	Short term	20D
Min allowable Tensile Strength(N)	Long term	600
Min allowable Tensile Strength(N)	Short term	2500
Operation temperature (°C)	-40+70	
Installation temperature (°C)	-20+60	
Storage temperature (°C)	-40+70	



Fiber characteristic

Fiber style	Unit		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	≤	≤	≤		
		0.36/0.23	0.36/0.23	3.0/1.0	----	----
Dispersion	1550nm	Ps/(nm*km)	----	≤ 18	----	Dispersion
	1625nm	Ps/(nm*km)	----	≤ 22	----	
Bandwith	850nm	MHZ.KM	----			
	1300nm	MHZ.KM	----			
Zero dispersion wavelength	nm	1300-1324	1302, ≤ 1322	----	----	1295, ≤ 1320
Zero dispersion slope	nm					
PMD Maximum Individual Fibr						
PMD Design Link Value	Ps(nm ² *k m)					
Fibre cutoff wavelength λ _c	nm	1180, ≤ 1330	1180, ≤ 1330	----	----	----
Cable sutoff wavelength λ _{cc}	nm					
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					
Irregularities over fiber length and point	dB					

Dicontinuity

Difference backscatter coefficient	dB/km					
Attenuation uniformity	dB/km					
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	%					
Coating diameter	um	242+/-7	242+/-7	242+/-7	242+/-7	242+/-7
Coating/chaffinch concentricity error	um					
Coating non circularity	%					
Core/cladding concentricity error	um					
Curl(radius)	um					

