

# STRUCTURE CABLING OPTICAL FIBER





									11	12
Blue	Orange	Green	Brown	_	_	2	-	 _	_	-

## Color codes for loose tube & filler rod

								10	11	12
Blue	Orange	-	-	-	 -	-	_	-	_	_

## Cable structure and parameter

SN	ltem		Value
1	No. of fibers	count	8
2	No. of fibers per tube(max)	count	4
3	No. of elements	count	2
4	Tube diameter	mm	1.8
5	Outer sheath wall thickness	mm	2
6	Cable diameter	mm	19.5*10.8
7	Cable weight	kg/km	220
8	Short term tension	N	8000
9	Short term crush	N/100mm	1000

#### G652D fiber information

- Mode field diameter (1310nm):9.2µm±0.4µm.
- Mode field diameter (1550nm):10.4µm±0.8µm.
- Cladding diameter:125µm±1.0µm.
- Coating diameter:245μm±7μm.
- Cut off wavelength of cabled fiber (λcc):≤1260µm.
- Attenuation at 1310nm:≤0.35dB/km.
- Attenuation at 1550nm:≤0.21dB/km.
- Bending loss at 1550nm (100 turns, 30mm radius):≤0.05dB.
- Dispersion in the range 1288 to 1339nm:≤3.5ps/(nm·km).
- Dispersion at 1550nm:≤18ps/(nm·km).
- Dispersion slope at zero dispersion wavelength:≤0.092ps/(nm2·km).

# Characteristic of Optical Cable

Mechanical characteri	stic and tes	t method			
Tensile strength	conform to IEC 794-1-E1				
Crush	conform to IEC 794-1-E3 conform to IEC 794-1-E4 conform to IEC 794-1-E6 conform to IEC 794-1-E7				
Impact					
Repeated bending					
Torsion					
Flexing	conform to IEC 794-1-E8 conform to IEC 794-1-E11 conform to IEC 794-1-F5B				
Cable bend					
Water penetration					
	Operation		-40°C~+60°C		
Temperature requirement	Installation		-10°C~+60°C		
	Storage/transportation		-40°C-+60°C		
Temperature cycling test	con	form to IEC 7	94-1-F1		
Davids o Destino	Unloaded	10 times of	outer diamete		
Bending Radius	loaded	20 times of	outer diamete		

# Order Information

Item	Specification	Description
D181	2-96 cores	Single Mode
D182	2-96 cores	Multimode