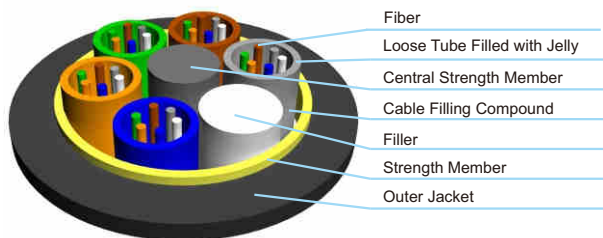


Dielectric Optical Cable For Ducts - Gelly Filled Core



Temperature Range
 Operating : -40°C to +70°C
 Storage : -50°C to +70°C
 Installation : -30°C to +70°C
 Bending Radius:
 Static 10D
 Dynamic 20D



Cable Structure

Description

Totally dielectric cable with fibers placed in loose buffer tube stranded around dielectric central member. The cable core is protected with water blocking material to prevent water intrusion and migration, reinforced with dielectric fiber yarns and covered with black polyethylene outer jacket.

Product Construction

Fiber:
 2-288 fibers
 Loose tube gel-filled
Central Strength Member:
 FRP (Fiber reinforce plastic)
Strength Member
 Fiber glass yarns.
Outer Jacket:
 Black UV-and moisture-resistant polyethylene (PE).

Features

Totally dielectric structure.
 Up to 288 fibers.
 Loose tube gel-filled construction for superior fiber protection.
 UV and moisture-resistant design.

Applications

Interbuilding voice or data communication backbones.
 Installed in ducts, underground conduits, lashed/aerial.

Optical Characteristics

Fiber Type		G.652	G.655	50/125μm	62.5/125μm
Attenuation (+20°C)	850 nm			≤3.0 dB/km	≤3.3 dB/km
	1300 nm			≤1.0 dB/km	≤1.0 dB/km
	1310 nm	≤0.36 dB/km	≤0.40 dB/km		
	1550 nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth	850 nm			≥500 MHz-km	≥200 Mhz-km
	1300 nm			≥500 MHz-km	≥500 Mhz-km
Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
Cable Cut-off Wavelength λ _{cc}		≤1260 nm	≤1450 nm		

Structure and Technical Specifications

Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fiber Per Tube	Max No. of (Tubes+fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~30	9.8	75	6	5	2700	1000	1000	300
32~48	10.8	97	8	6	2700	1000	1000	300
50~72	11.3	102	12	6	2700	1000	1000	300
74~96	12.6	126	12	8	2700	1000	1000	300
98~144	15.6	191	12	12	2700	1000	1000	300
>144	Available upon customer's request							

Note : This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information.