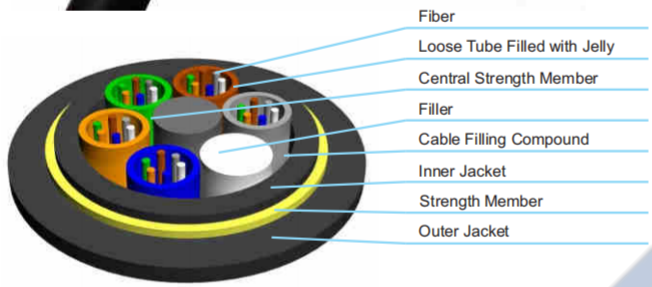
Dielectric Optical Cable For Ducts With Rodent Protection

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 and covered with inner jacket. This set unit is protected with fiber glass yarns and covered with outer jacket.

Product Construction

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

Applications

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

Optical Characteristics

Fiber Type		G.652	G.655	50/125μm	62.5/125μm
Attenuation (+20℃)	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 λcc		≤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	12.0	115	6	5	3000	1000	3000	1000
32~48	12.6	120	8	6	3000	1000	3000	1000
50~72	13.2	140	12	6	3000	1000	3000	1000
74~96	14.8	160	12	8	3000	1000	3000	1000
98~144	16.3	190	12	12	3000	1000	3000	1000
>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.