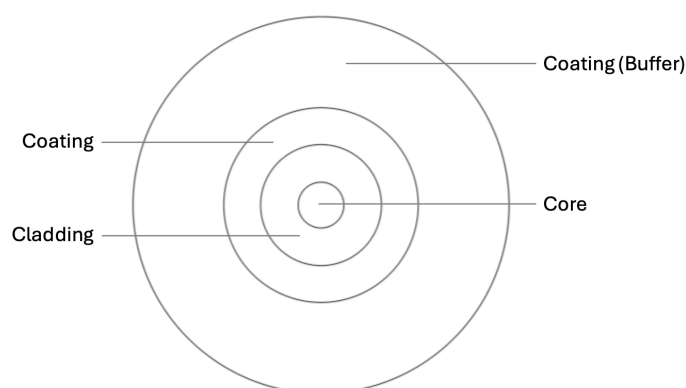


Fiber Optic Cable for Drones

Lightweight fiber optics for drones offer a revolutionary solution for secure and reliable communication. With their ultra-lightweight design, high durability, and long-range capabilities, they ensure stable data transmission even in demanding conditions. This fiber is specifically designed to minimize the drone's weight while providing protection against interference and secure real-time connectivity. It is ideal for military, reconnaissance, and industrial applications where maximum reliability and performance are required.



Fibre Type	G.657.A2
Fibre colour	Natural
Cable diameter	0.3 mm
Cable material	PVC
Cable colour	Natural
Calc. cable weight (kg/km)	0.1
Min. bend radius not load (mm)	15 x OD
Min. bend radius load (mm)	30 x OD
Operating temperature range (°C)	-20 to +70
Attenuation 1310 nm	≤ 0.4 dB/km
Attenuation 1550 nm	≤ 0.3 dB/km



Fiber Optic Cable for Drones – reel, and connector are not included

Dimensional Specifications

Glass Geometry

Fiber Curl	≥ 4.0 m radius of curvature
Cladding Diameter	125.0 ± 0.7 μm
Core-Clad Concentricity	≤ 0.5 μm
Cladding Non-Circularity	≤ 0.8 %

Coating Geometry

Coating Diameter	245 ± 10 μm
Coating-Cladding Concentricity	< 12.5 μm

Environmental Specifications

Temperature Dependence	60°C to +70°C	Attenuation	≤ 0.05 dB/km
Operating Temperature Range	-20°C to +70°C	Induced Attenuation:	≤ 0.05 dB/km
Temperature Humidity Cycling	-10°C to +70°C up to 98% RH	Induced Attenuation	≤ 0.05 dB/km
Water Immersion	23°C ± 2°C	Induced Attenuation	≤ 0.05 dB/km
Heat Aging	85°C ± 2°C	Induced Attenuation:	≤ 0.05 dB/km
Damp Heat	85°C at 85% RH		
Reference Temperature	+23°C		