

36-Fiber Trunk Cable

Fiber SenSys Part Number 600-83121

36-fiber single-mode, all dielectric, outdoor-rated cable

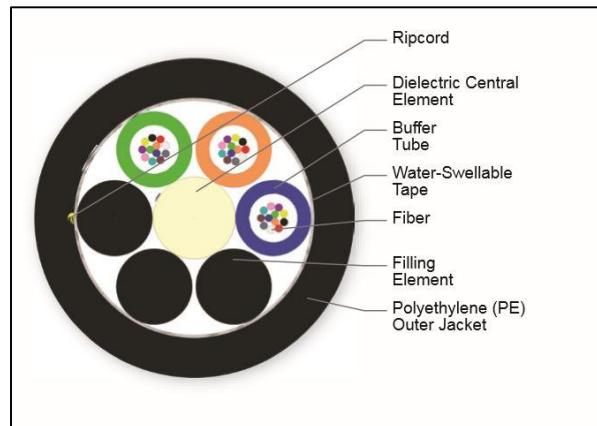
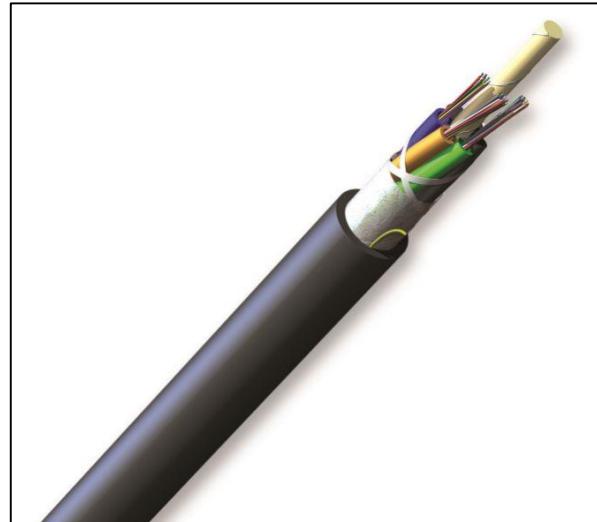
An advantage of Fiber SenSys (FSI) products is that the electronics that make up the brain of the system, the Alarm Processing Unit (APU), can be mounted inside, away from the fence line. As a result;

- All outside components are passive optical modules and cable. This allows our systems to be deployed in areas that have intrinsically safe requirements.
- EMI, RFI and lightning will not affect the field components. This allows our systems to work with no compromise in very intense environments such as airport and high voltage electrical facilities.
- Lightning striking on or around the fence will not damage the security sensor.
- Extreme temperatures that normally damage other sensors will not affect a Fiber SenSys sensor, and the most critical element, the APU is installed safely indoors.

This cable is one of the key components that allows FSI to remote-mount the APUs.

The robust 36-Fiber Trunk Cable provides a cable can be used for insensitive lead and data communications. Spare fibers not used as insensitive sensor leads can be used for carrying data and video communications for any single-mode system.

This 36-core trunk cable is an all-dielectric gel-free cable designed for outdoor use. The cable is fully water blocked to ensure long life in wet environments. Its loose tube design results in a cable that can handle robust environments and provides easy mid-span access.



General Specifications

Environment	Outdoor
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	Single-mode (OS2)

Temperature Range

Storage	-40 °C to 75 °C (-40 °F to 167 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 75 °C (-40 °F to 167 °F)

Cable Design

Central Element	Dielectric
Fiber Count	36
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	3
Buffer Tube Color Coding	Blue, Orange, Green
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	3
Tape	Water-swellable
Number of Ripcords	1
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black
Max. Fibers per Tube	12

Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, Long-Term	890 N (200 lbf)
Weight	73 kg/km (49 lb/1000 ft)
Nominal Outer Diameter	10.5 mm (0.41 in)
Minimum Bend Radius Installation	158 mm (6.2 in)
Minimum Radius Operation	105 mm (4.1 in)