

36-Fiber Trunk Cable

Fiber SenSys Part Number 600-83121

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

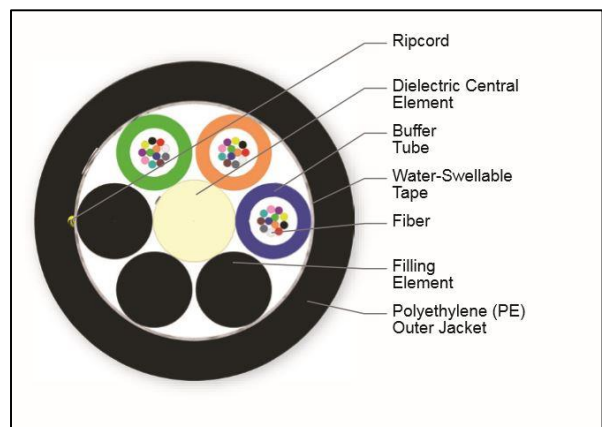
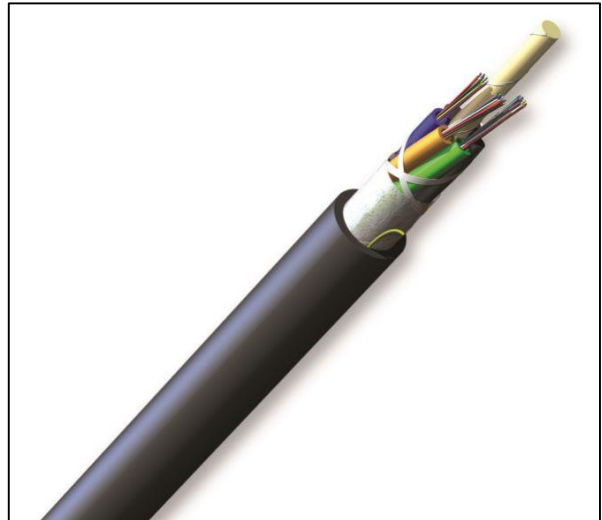
An advantage of Fiber SenSys (FSI) products is that the electronics that make up the brain of the system, the Alarm Processing Unit (APU), can be mounted inside, away from the fence line. As a result;

- 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-swellaable |
| 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) |