

# FiberPatrol® Sensor Cable

## FPSP0424-001, FPSP0624-001, FPSP1624-001

### General Characteristics

- Gel-filled loose tube construction
- Dry water-blocked core speeds cable access
- Reverse oscillating stranded core facilitates mid-span access of fibers. Tubes can easily be removed from the core
- Ripcord speeds cable entry and out jacket removal
- Small Diameter and light weight provides for extended reel and installation lengths
- Proven water-blocking with swellable core elements and gel-filled buffer tubes
- Optional corrugated steel tape armor provides mechanical protection and rodent resistance

### Physical Characteristics

- Fiber count: 24
- Buffer tube count: 5
- UV-resistant polyethylene jacket
- Armored versions suitable for direct burial
- Diameter:
  - Non-armored: 10.1 mm (0.40 in)
  - Armored single-jacket: 11.8 mm (0.46 in)
  - Armored double-jacket: 13.5 mm (0.53 in)
- Cable weight (approximate):
  - Non-armored: 69 kg/km (46 lb/kft)
  - Armored single-jacket: 137 kg/km (92 lb/kft)
  - Armored double-jacket: 165 kg/km (111 lb/kft)
- Bend radius (under load):
  - Non-armored: 20 cm (8 in)
  - Armored single-jacket: 24 cm (9 in)
  - Armored double-jacket: 27 cm (11 in)
- Bend radius (no load):
  - Non-armored: 10 cm (4 in)
  - Armored single-jacket: 12 cm (5 in)
  - Armored double-jacket: 14 cm (5 in)
- Maximum load:
  - Installation: 2670 N (600 lbf)
  - Operation: 800 N (180 lbf)
- Short Term Compression: 220 N/cm over 10 cm (125 lb/in over 4 inches)
- Long Term Compression: 110 N/cm over 10 cm (62.5 lb/in over 4 inches)

### Performance Specifications

- Fiber type: single-mode (ITU G.652 C & D)
- Attenuation: 0.25 dB/km or less at 1550 nm
- Testing in accordance with TIA 455 series FOTPs for fiber optic cables
- Complies with ICEA 640, RUS 7 CPR 1755, Telcordia CR-20, and IEC 60794-3-11

### Environmental Specifications

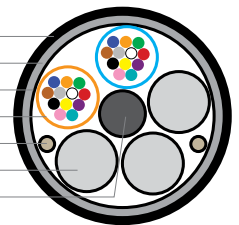
- Temperature:
  - Operating: -40 to +70 °C (-40 to +158 °F)
  - Storage: -40 to +75 °C (-40 to +167 °F)
  - Installation: -30 to +60 °C (-22 to +140 °F)

### Orderable Parts

- Sensor cable is sold per meter (3.28 ft). Preferred reel lengths to be specified at the time of order
- FPSP0424-001 – Fiber optic sensor/lead cable for fence applications, 24 fibers
- FPSP0624-001 – Fiber optic sensor/lead cable for fence and buried applications, 24 fibers, corrugated steel tape armor, double polyethylene jacket
- FPSP1624-001 – Fiber optic sensor/lead cable for fence and buried applications, 24 fibers, corrugated steel tape armor, single polyethylene jacket



MDPE Outer Jacket  
 Water Blocking System  
 Binder tape  
 Gel-Filled Buffer Tubes Containing 12 Fibers (x2)  
 Ripcord (x2)  
 PE filler unit (x3)  
 Central Strength Member



See the FiberPatrol datasheets for full system descriptions.