

HITRONIC® PCF DUPLEX

Duplex Buffered Plastic-Clad Fiber Cable for Stationary Applications

LAPP KABEL STUTTGART HITRONIC® PCF DUPLEX Indoor

LAPP KABEL STUTTGART HITRONIC® PCF DUPLEX Outdoor

HITRONIC® PCF DUPLEX is a duplex, buffered, plastic-clad fiber optic cable and is available in indoor and outdoor versions. The outdoor version is UV-resistant, watertight, and provides rodent protection.

Recommended Applications

Indoor or outdoor applications in harsh industrial environments

Approvals



| Cable Attributes: Indoor | | | | page 640 |
|--------------------------|--------|-------|--|-------------|
| | OIL | OR-04 | | FLAME FR-01 |
| | MOTION | FL-01 | | MECH. MP-05 |

| Cable Attributes: Outdoor | | | | page 640 |
|---------------------------|--------|-------|--|-------------|
| | OIL | OR-00 | | FLAME FR-00 |
| | MOTION | CF-01 | | MECH. MP-01 |

Indoor Construction

Core: Polymer-clad fiber (PCF)

Cladding: Fluoropolymers

Buffer Tube: ETFE

Inner Jacket: FRNC; red and green

Outer Jacket: Halogen-free polyurethane; orange

Strain Relief: Aramid yarns

Outdoor Construction

Core: Polymer-clad fiber (PCF)

Cladding: Fluoropolymers

Buffer Tube: ETFE

Inner Jacket: FRNC; red and green

Outer Jacket: Polyethylene; black

Strain Relief: Glass yarns

Application Advantage

- Transmission lengths up to 500 m (1,640 ft)
- Complies with requirements for all field bus systems
- Suitable for direct connector assembly
- Highly resistant against oil and chemicals
- EMI protection

Technical Data



Minimum Bend Radius:

- for stationary use: 15 x cable diameter
- for dynamic use: 20 x cable diameter



Temperature Range:

- Operating: -20°C to +70°C
- Installation: -10°C to +50°C



Permissible Tensile Force:

- for stationary use:
 - Indoor: 400 N
 - Outdoor: 500 N
- Short-term:
 - Indoor: 1200 N
 - Outdoor: 1500 N



Cable Designation:

- Indoor: J-V(ZN)H11Y 2K 200/230
- Outdoor: A-V(ZN)HB2Y 2K 200/230

| Part Number | Fiber Type | Number of Fibers | Outer Diameter | | Approx. Weight | |
|-------------|-------------|------------------|----------------|------|----------------|---------|
| | | | (in) | (mm) | (lbs/mft) | (kg/km) |
| Indoor | | | | | | |
| 28020702 | 200/230 PCF | 2 | 0.315 | 8.0 | 37 | 55 |
| Outdoor | | | | | | |
| 28620702 | 200/230 PCF | 2 | 0.414 | 10.5 | 60 | 90 |

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.
For current information go to our website.

HITRONIC® PCF DUPLEX FD

Duplex Buffered Plastic-Clad Fiber Cable for Continuous Flex Applications

LAPP KABEL STUTTGART HITRONIC® PCF DUPLEX FD



HITRONIC® PCF DUPLEX FD is a plastic-clad fiber optic cable designed for use in continuous flex applications such as cable tracks. The cable has a highly oil-resistant PUR jacket and is suitable for direct connector assembly. The maximum transmission length is 500 m (1,640 ft).

Recommended Applications

Indoor and outdoor use; stationary and continuous flex applications in harsh industrial environments; cable tracks; as a link between moving machine parts

Approvals



| Cable Attributes | | page 640 | |
|------------------|--------|----------|-------------|
| | OIL | OR-00 | FLAME FR-00 |
| | MOTION | FL-01 | MECH. MP-01 |

Construction

Core: Polymer-clad fiber (PCF)

Cladding: Fluoropolymers

Buffer Tube: ETFE

Inner Jacket: FRNC; red and green

Outer Jacket: Halogen-free polyurethane; orange

Strain Relief: Aramid yarns

Application Advantage

- Designed for use in cable tracks
- Highly resistant against oil and chemicals
- Complies with requirements for all field bus systems
- Suitable for direct connector assembly
- Transmission lengths of up to 500 m (1,640 ft)

Technical Data



Minimum Bend Radius:

- for stationary use: 15 x cable diameter
- for dynamic use: 20 x cable diameter



Permissible Tensile Force:

- for stationary use: 800 N
- Short-term: 2000 N



Temperature Range:

- Operating: -20°C to +70°C
- Installation: -10°C to +50°C



Cable Designation:

A/J-V(ZN)H11Y

| Part Number | Fiber Type | Number of Fibers | Outer Diameter | | Approx. Weight | |
|-------------|-------------|------------------|----------------|------|----------------|---------|
| | | | (in) | (mm) | (lbs/mft) | (kg/km) |
| 28320702 | 200/230 PCF | 2 | 0.347 | 8.8 | 37 | 55 |