

HITRONIC® POF SIMPLEX PE

Simplex Buffered Polymer Optical Fiber Cable



HITRONIC® POF SIMPLEX PE is a simplex buffered fiber optic cable for transmission lengths up to 70m (230ft). The flexible and lightweight design allows easy handling. The cable is suitable for direct connector assembly.

Construction

Core: Polymethyl methacrylate (PMMA)

Cladding: Fluoropolymers





Buffer Tube: Halogen-free polyethylene; black

Recommended Applications

Stationary indoor applications in control cabinets, cable ducts, or pipes with low mechanical stress

Approvals





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


Application Advantage


- Transmission lengths up to 70 m (230 ft)
- Suitable for direct connector assembly
- Easy to handle
- No crosstalk
- Protected against EMI

Technical Data

 **Minimum Bend Radius:** 10 x cable diameter

 **Temperature Range:**
 - Operating temperature: -55°C to +85°C
 - Installation temperature: -10°C to +50°C

 **Permissible Tensile Force:**
 - Stationary installation: 5 N
 - Short-term: 15 N

 **Cable Designation:** J-V2Y 1P 980/1000

Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight	
			(in)	(mm)	(lbs/mft)	(kg/km)
28000001	980/1000 POF	1	0.087	2.2	3	4

HITRONIC® POF SIMPLEX PE-PUR

Simplex Buffered Polymer Optical Fiber Cable with Strain Relief & PUR Outer Jacket

LAPP KABEL STUTTGART HITRONIC® POF SIMPLEX PE-PUR



HITRONIC® POF SIMPLEX PE-PUR is a simplex buffered fiber optic cable. The cable design includes aramid yarns for strain relief and a rugged PUR outer jacket, which makes the cable highly resistant to oil and abrasion.

Construction

Core: Polymethyl methacrylate (PMMA)

Cladding: Fluoropolymers

Buffer Tube: Polyethylene; black

Outer Jacket: Halogen-free polyurethane; orange

Strain Relief: Aramid yarns

Recommended Applications

Indoor optical signal transmission in industrial applications with high mechanical stress

Approvals



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

Application Advantage

- Transmission lengths up to 70m (230ft)
- Suitable for direct connector assembly
- Resistant to abrasion, oil, microbes, and hydrolysis
- Flame-retardant & halogen-free jacket

Technical Data



Minimum Bend Radius:

- for stationary use: 10 x cable diameter
- Short-term: 6 x cable diameter



Permissible Tensile Force:

- for stationary use: 100 N
- Short-term: 350 N



Temperature Range:

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



Cable Designation:

J-V2Y(ZN) 1P 980/1000

Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight	
			(in)	(mm)	(lbs/mft)	(kg/km)
28020001	980/1000 POF	1	0.217	5.5	17	25



HITRONIC® POF DUPLEX PE is a duplex buffered fiber optic cable with a twin-cable design. This easy to handle cable is suitable for direct connector assembly and is protected against crosstalk and EMI.

HITRONIC® POF DUPLEX PE

Duplex Buffered Polymer Optical Fiber Cable

Construction

Core: Polymethyl methacrylate (PMMA)

Cladding: Fluoropolymers





Buffer Tube: Halogen-free polyethylene; black

Recommended Applications

Indoor stationary optical signal transmission applications in control cabinets, cable ducts, and tubes

Approvals





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


Application Advantage


- Transmission lengths up to 70 m (230 ft)
- Suitable for direct connector assembly
- Easy to handle
- No crosstalk
- Protected against EMI

Technical Data

 **Minimum Bend Radius:** 10 x cable diameter

 **Temperature Range:**
 - Operating: -55°C to +85°C
 - Installation: -10°C to +50°C

 **Permissible Tensile Force:**
 - for stationary use: 10 N
 - Short-term: 30 N

 **Cable Designation:** J-V2Y 2P 980/1000

Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight	
			(in)	(mm)	(lbs/mft)	(kg/km)
28000002	980/1000 POF	2	0.0867 x 0.173	2.2 x 4.4	5	7.6

HITRONIC® POF DUPLEX PE-PUR/HEAVY PE-PUR

Duplex Buffered Polymer Optical Fiber Cable with Strain Relief & PUR Outer Jacket

LAPP KABEL STUTTGART HITRONIC® POF DUPLEX PE-PUR

LAPP KABEL STUTTGART HITRONIC® POF DUPLEX HEAVY PE-PUR

HITRONIC® POF DUPLEX PE-PUR/HEAVY PE-PUR is a duplex buffered fiber optic cable. The cable design includes aramid yarns for strain relief. The jacket can be standard PUR or heavy duty PUR, which make the cable highly resistant against oil and abrasion.

Recommended Applications

Indoor stationary applications in industrial environments with high mechanical stress.

Approvals



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

Construction

Core: Polymethyl methacrylate (PMMA)

Cladding: Fluoropolymers

Buffer Tube: Polyethylene; black

Outer Jacket: Halogen-free polyurethane; orange

Strain Relief: Aramid yarns

Application Advantage

- Transmission lengths up to 70 m (230 ft)
- Suitable for direct connector assembly
- Resistant to abrasion, oil, microbes, and hydrolysis
- Flame-retardant & halogen-free jacket

Technical Data



Minimum Bend Radius:

- for stationary use:
 - PE-PUR: 6 x cable diameter
 - HEAVY PE-PUR: 7 x cable diameter
- for dynamic use: 10 x cable diameter



Permissible Tensile Force:

- for stationary use:
 - PE-PUR: 100 N
 - HEAVY PE-PUR: 130 N
- Short-term: 400 N



Temperature Range:

- Operating: -40°C to +70°C
- Installation: -10°C to +50°C



Cable Designation:

J-V2Y(ZN)11Y 2P 980/1000

Part Number	Fiber Type	Number of Fibers	Outer Diameter (in)	Outer Diameter (mm)	Approx. Weight (lbs/mft)	Approx. Weight (kg/km)
HITRONIC® POF DUPLEX PE-PUR						
28020002	980/1000 POF	2	0.217	5.5	19	28
HITRONIC® POF DUPLEX HEAVY PE-PUR						
28030002	980/1000 POF	2	0.315	8.0	19	28