

HITRONIC®

Optical Transmission Cable

POF - Polymer Optical Fiber	263
PCF - Plastic-Clad Fiber	267
GOF - Glass Optical Fiber	269



**Optical Transmission
Cable****POF - Polymer Optical Fiber**

HITRONIC® POF SIMPLEX PE **263**
Simplex Buffered Polymer Optical Fiber Cable

HITRONIC® POF SIMPLEX PE-PUR **264**
Simplex Buffered Polymer Optical Fiber Cable with Strain Relief & PUR Outer Jacket

HITRONIC® POF DUPLEX PE **265**
Duplex Buffered Polymer Optical Fiber Cable

HITRONIC® POF DUPLEX PE-PUR/HEAVY PE-PUR **266**
Duplex Buffered Polymer Optical Fiber Cable with Strain Relief & PUR Outer Jacket

PCF - Plastic-Clad Fiber

HITRONIC® PCF DUPLEX **267**
Duplex Buffered Plastic-Clad Fiber Cable for Stationary Applications

HITRONIC® PCF DUPLEX FD **268**
Duplex Buffered Plastic-Clad Fiber Cable for Continuous Flex Applications

GOF - Glass Optical Fiber

HITRONIC® HQN **269**
Single-mode & Multi-mode Glass Optical Fiber Cable for Outdoor Applications

HITRONIC® HUN **270**
Single-mode & Multi-mode Glass Optical Fiber Cable for Indoor & Outdoor Applications

HITRONIC® HDM **271**
Multi-mode Glass Optical Fiber Cable for Frequent Reeling and Unreeling

HITRONIC® TORSION **272**
Single-mode & Multi-mode Glass Optical Fiber Cable for Torsion Applications

HITRONIC® FIRE **273**
Single-mode & Multi-mode Glass Optical Fiber Cable with Fire-Resistant Design



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: Black halogen-free polyethylene

Recommended Applications

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

Application Advantage

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

Approvals




Cable Attributes, see page 659


	OR-00		FR-00		FL-01		MP-01
OIL		FLAME		MOTION		MECHANICAL	

Similar Cables


- HITRONIC® POF DUPLEX PE

Technical Data


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

 **Permissible Tensile Force:**

- Fixed installation: 5 N
- Short-term: 15 N

 **Temperature Range:**

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

 **Cable Designation:** 1-V2Y 1P980/1000

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

Photographs are not to scale and are not true representations of the products in question.
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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.

Recommended Applications

Indoor optical signal transmission in industrial applications with high mechanical stress

Approvals



Construction

Core: Polymethyl methacrylate (PMMA)

Cladding: Fluoropolymers

Buffer Tube: Black polyethylene

Outer Jacket: Orange, halogen-free polyurethane

Strain Relief: Aramid yarns

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

Cable Attributes, see page 659

	OR-04		FR-01		FL-01		MP-05
OIL		FLAME		MOTION		MECHANICAL	

Similar Cables

- HITRONIC® POF DUPLEX PE-PUR

Technical Data



Minimum Bend Radius:

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



Permissible Tensile Force:

- Stationary installation: 100 N
- Short-term: 350 N



Temperature Range:

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



Cable Designation:

I-V2Y(ZN) 1P980/1000

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

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HITRONIC® POF DUPLEX PE

Duplex Buffered Polymer Optical Fiber Cable



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.

Construction

Core: Polymethyl methacrylate (PMMA)

Cladding: Fluoropolymers

Buffer Tube: Black, halogen-free polyethylene

Recommended Applications

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

Application Advantage

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

Approvals




Cable Attributes, see page 659

	OR-00		FR-00		FL-01		MP-01
OIL		FLAME		MOTION		MECHANICAL	

Similar Cables


- HITRONIC® POF DUPLEX PE-PUR


Technical Data

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

 **Permissible Tensile Force:**

- Fixed installation: 10 N
- Short-term: 30 N

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

 **Cable Designation:** 1-V2Y 2P980/1000

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

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

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

LAPP KABEL STUFGART HITRONIC® POF DUPLEX PE-PUR

LAPP KABEL STUFGART 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, see page 659

	OR-04		FR-01		FL-01		MP-05
OIL		FLAME		MOTION		MECHANICAL	

Construction

Core: Polymethyl methacrylate (PMMA)

Cladding: Fluoropolymers

Buffer Tube: Black polyethylene

Outer Jacket: Orange, halogen-free polyurethane

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

Similar Cables

- HITRONIC® POF DUPLEX PE

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:

- Stationary installation:
 - PE-PUR: 100 N
 - Heavy PE-PUR: 130 N
- Short-term: 400 N



Temperature Range:

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



Cable Designation:

I-V2Y(ZN) 11Y 2P980/1000

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

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HITRONIC® PCF DUPLEX

Duplex Buffered Plastic-Clad Fiber Cable for Stationary Applications

LAPP KABEL STUTTGART HITRONIC® BUS PCF PUR DUPLEX indoor

LAPP KABEL STUTTGART HITRONIC® BUS PCF PE 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 Cable

Cable Attributes, see page 659			
OR-04	FR-01	FL-01	MP-05
OIL	FLAME	MOTION	MECHANICAL

Cable Attributes: Outdoor Cable

Cable Attributes, see page 659			
OR-00	FR-00	CF-01	MP-01
OIL	FLAME	MOTION	MECHANICAL

Indoor Construction

Core: Polymer-clad fiber (PCF)
Cladding: Fluoropolymers
Buffer Tube: ETFE
Inner Jacket: Red and green FRNC
Outer Jacket: Orange, halogen-free polyurethane
Strain Relief: Aramid yarns

Outdoor Construction

Core: Polymer-clad fiber (PCF)
Cladding: Fluoropolymers
Buffer Tube: ETFE
Inner Jacket: Red and green FRNC
Outer Jacket: Black polyethylene
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

Similar Cables

- HITRONIC® PCF DUPLEX FD

Technical Data

Minimum Bend Radius:
 - for stationary use: 15 x cable diameter
 - for dynamic use: 20 x cable diameter

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

Permissible Tensile Force:
 - Stationary installation:
 - Indoor: 400 N
 - Outdoor: 500 N
 - Short-term:
 - Indoor: 1200 N
 - Outdoor: 1500 N

Cable Designation:
 - Indoor: I-V(ZN)H11Y 2K200/230
 - Outdoor: A-V(ZN)HB2Y 2K200/230

Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight	
			(inches)	(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

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HITRONIC® PCF DUPLEX FD

Duplex Buffered Plastic-Clad Fiber Cable for Continuous Flex Applications

LAPP KABEL STUTTGART HITRONIC® BUS PCF PUR 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



Construction

Core: Polymer-clad fiber (PCF)

Cladding: Fluoropolymers

Buffer Tube: ETFE

Inner Jacket: Red and green FRNC

Outer Jacket: Orange halogen-free polyurethane

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)

Cable Attributes, see page 659

	OR-00		FR-00		FL-01		MP-01
OIL		FLAME		MOTION		MECHANICAL	

Similar Cables

- HITRONIC® PCF DUPLEX

Technical Data



Minimum Bend Radius:

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



Permissible Tensile Force:

- Stationary installation: 800 N
- Short-term: 2000 N



Temperature Range:

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



Cable Designation:

A/I-V(ZN)H11Y

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

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Single-mode & Multi-mode Glass Optical Fiber Cable for Outdoor Applications







HITRONIC® HQN is an outdoor glass fiber optic cable available with up to 24 fibers. The cable design includes a loose central tube, water-blocking reinforced glass yarns which act as strain relief, and a UV-resistant, halogen-free PE outer jacket.

Recommended Applications

Outdoor use; direct burial; campus backbone; WAN applications; industrial environments; empty plastic pipes, ducts, and trays

Approvals



Cable Attributes, see page 659			
 OR-00	 FR-00	 FL-01	 MP-01
OIL	FLAME	MOTION	MECHANICAL

Construction

Core: Glass

Cladding: Glass

Tube: Gel-filled loose tube

Outer Jacket: Black halogen-free polyethylene

Strain Relief: Reinforced glass yarns





Application Advantage

- Easy to install due to compact and flexible design
- Suitable for direct burial (rodent protected)
- Rugged halogen-free PE outer jacket
- UV and water resistant

Similar Cables

- HITRONIC® HUN

Technical Data

	Minimum Bend Radius:			Permissible Tensile Force:	
	- for stationary use:	15 x cable diameter		- Stationary installation:	1500 N
	- for dynamic use:	20 x cable diameter		- Short-term:	3000 N
	Temperature Range:			Identification of Fibers:	Red, green, blue, yellow, gray, violet, brown, orange, white, pink, black, turquoise
	- Operating temperature:	-20°C to +70°C		Cable Designation:	A-DQ(ZN)B2Y
	- Installation temperature:	0°C to +50°C			

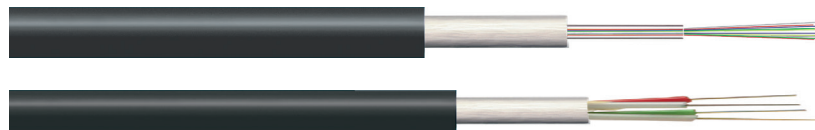
Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight	
			(inches)	(mm)	(lbs/mft)	(kg/km)
Multi-mode G 50 OM3						
27600304	50/125 OM3	4	0.288	7.3	27	40
27600308	50/125 OM3	8	0.288	7.3	27	40
27600312	50/125 OM3	12	0.288	7.3	27	40
27600324	50/125 OM3	24	0.327	8.3	44	65
Multi-mode G 50 OM2						
27600204	50/125 OM2	4	0.288	7.3	27	40
27600208	50/125 OM2	8	0.288	7.3	27	40
27600212	50/125 OM2	12	0.288	7.3	27	40
27600224	50/125 OM2	24	0.327	8.3	44	65
Multi-mode G 62.5 OM1						
27600104	62.5/125 OM1	4	0.288	7.3	27	40
27600108	62.5/125 OM1	8	0.288	7.3	27	40
27600112	62.5/125 OM1	12	0.288	7.3	27	40
27600124	62.5/125 OM1	24	0.327	8.3	44	65
Single-mode E 9 OS2						
27600904	9/125 OS2	4	0.288	7.3	27	40
27600908	9/125 OS2	8	0.288	7.3	27	40
27600912	9/125 OS2	12	0.288	7.3	27	40
27600924	9/125 OS2	24	0.327	8.3	44	65

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HITRONIC® HUN

Single-mode & Multi-mode Glass Optical Fiber Cable for Indoor & Outdoor Applications



HITRONIC® HUN is a glass fiber optic cable designed for indoor and outdoor applications. The outer jacket is highly flame retardant and halogen-free. The cable comes with a loose single tube for up to 24 fibers and multiple tubes for 24 fibers and more.

Recommended Applications

Indoor and outdoor use; campus backbone; industrial environments; WAN applications; empty plastic pipes, ducts, and trays

Approvals



Cable Attributes, see page 659



Construction

Core: Glass

Cladding: Glass

Tube: Gel-filled loose tube(s): single tube design (up to 24 fibers); multi-tube design (24 fibers and more)

Outer Jacket: Black LSZH compound

Strain Relief: Reinforced glass yarns

Application Advantage

- Suitable for indoor and outdoor applications
- Flame-retardant and halogen-free outer jacket
- Easy to install due to compact and flexible design
- UV and water resistant

Similar Cables

- HITRONIC® HQN

Technical Data



Minimum Bend Radius:

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



Permissible Tensile Force:

- Stationary installation: 1500 N
- Short-term: 2000 N



Temperature Range:

- Operating temperature: -30°C to +70°C
- Installation temperature: 0°C to +50°C



Identification of Fibers:

Red, green, blue, yellow, gray, violet, brown, orange, white, pink, black, turquoise



Cable Designation:

A/I-DQ(ZN)BH

Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight	
			(inches)	(mm)	(lbs/mft)	(kg/km)
Multi-mode G 50 OM3						
27400304	50/125 OM3	4	0.288	7.3	36	53
27400308	50/125 OM3	8	0.288	7.3	36	53
27400312	50/125 OM3	12	0.288	7.3	36	53
27400324	50/125 OM3	24	0.327	8.3	40	60
26400324	50/125 OM3	24	0.366	9.3	56	84
26400348	50/125 OM3	48	0.433	11	73	109
Multi-mode G 50 OM2						
27400204	50/125 OM2	4	0.288	7.3	36	53
27400208	50/125 OM2	8	0.288	7.3	36	53
27400212	50/125 OM2	12	0.288	7.3	36	53
27400224	50/125 OM2	24	0.327	8.3	40	60
Multi-mode G 62.5 OM1						
27400104	62.5/125 OM1	4	0.288	7.3	36	53
27400108	62.5/125 OM1	8	0.288	7.3	36	53
27400112	62.5/125 OM1	12	0.288	7.3	36	53
27400124	62.5/125 OM1	24	0.327	8.3	40	60
Single-mode E 9 OS2						
27400904	9/125 OS2	4	0.288	7.3	36	53
27400908	9/125 OS2	8	0.288	7.3	36	53
27400912	9/125 OS2	12	0.288	7.3	36	53
27400924	9/125 OS2	24	0.327	8.3	40	60
26400924	9/125 OS2	24	0.366	9.3	56	84
26400948	9/125 OS2	48	0.433	11	73	109
26400972	9/125 OS2	72	0.496	12.6	99	148
26400996	9/125 OS2	96	0.563	14.3	128	190
26400944	9/125 OS2	144	0.670	17	149	221

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Multi-mode Glass Optical Fiber Cable for Frequent Reeling and Unreeling



HITRONIC® HDM is a glass fiber optic cable with a highly flexible design suitable for frequent reeling and unreeling. The cable comes with up to 8 tight-buffered fibers, aramid yarns which provide strain relief, and a halogen-free outer jacket.

Construction

Core: Tight-buffered glass fibers

Cladding: Glass

Outer Jacket: Black halogen-free polyurethane

Strain Relief: Aramid yarns

Recommended Applications

Indoor and outdoor use; highly flexible applications; temporary installations such as event management; industrial environments

Approvals



Application Advantage

- Designed for highly flexible applications
- For direct connector assembly
- Easy to coil for mobile use
- Based on military spec MIL-C-85045
- Flame-retardant and halogen-free

Cable Attributes, see page 659

	OR-04		FR-00		FL-02		MP-05
OIL		FLAME		MOTION		MECHANICAL	

Technical Data



Minimum Bend Radius:

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



Identification of Fibers:

Blue, orange, green, brown, gray, white, red, black



Temperature Range:

- for stationary use: -40°C to +70°C
- for flexible use: -20°C to +60°C



Cable Designation:

A/I-V(ZN)11Y

Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight	
			(inches)	(mm)	(lbs/mft)	(kg/km)
Multi-mode G 50 OM4						
26610404	50/125 OM4	4	0.217	5.5	16	24
26610406	50/125 OM4	6	0.221	5.6	19	29
26610408	50/125 OM4	8	0.244	6.2	24	36
Multi-mode G 50 OM3						
26610304	50/125 OM3	4	0.217	5.5	16	24
26610306	50/125 OM3	6	0.221	5.6	19	29
26610308	50/125 OM3	8	0.244	6.2	24	36
Multi-mode G 50 OM2						
26610204	50/125 OM2	4	0.217	5.5	16	24
26610206	50/125 OM2	6	0.221	5.6	19	29
26610208	50/125 OM2	8	0.244	6.2	24	36
Multi-mode G 62.5 OM1						
26610104	50/125 OM1	4	0.217	5.5	16	24
26610106	50/125 OM1	6	0.221	5.6	19	29
26610108	50/125 OM1	8	0.244	6.2	24	36

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HITRONIC® TORSION

Single-mode & Multi-mode Glass Optical Fiber Cable for Torsion Applications



HITRONIC® TORSION is a fiber optic cable suitable for torsion applications in industrial environments. The cable is available with up to 12 tight-buffered fibers and allows direct connector assembly.

Recommended Applications

Indoor and outdoor use; torsion applications in industrial environments; as a link between moving machinery parts

Approvals



Construction

Core: Tight-buffered glass fibers

Cladding: Glass

Inner Jacket: LSZH

Outer Jacket: Black halogen-free polyurethane

Strain Relief: Aramid yarns

Application Advantage

- Torsion-resistant and very flexible
- For direct connector assembly
- Based on military spec MIL-C-85045
- Flame-retardant and halogen-free

Cable Attributes, see page 659



Technical Data



Minimum Bend Radius:

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



Identification of Fibers:

Blue, orange, green, brown, gray, white, red, black, yellow, violet, pink, turquoise



Temperature Range:

- for stationary use: -40°C to +70°C
- for flexible use: 0°C to +50°C



Cable Designation:

A/I-V(ZN)H11Y

Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight		Permitted Tensile Force in N	
			(inches)	(mm)	(lbs/mft)	(kg/km)	Installation	Short Term
Multi-mode G 50 OM3								
26310302	50/125 OM3	2	0.331	8.4	36	54	600	1,000
26310304	50/125 OM3	4	0.331	8.4	36	54	800	1,350
26310308	50/125 OM3	8	0.457	11.6	64	95	1,600	2,700
26310312	50/125 OM3	12	0.489	12.4	82	122	2,400	3,500
Multi-mode G 50 OM2								
26310202	50/125 OM2	2	0.331	8.4	36	54	600	1,000
26310204	50/125 OM2	4	0.331	8.4	36	54	800	1,350
26310208	50/125 OM2	8	0.457	11.6	64	95	1,600	2,700
26310212	50/125 OM2	12	0.489	12.4	82	122	2,400	3,500
Multi-mode G 62.5 OM1								
26310102	62.5/125 OM1	2	0.331	8.4	36	54	600	1,000
26310104	62.5/125 OM1	4	0.331	8.4	36	54	800	1,350
26310108	62.5/125 OM1	8	0.457	11.6	64	95	1,600	2,700
26310112	62.5/125 OM1	12	0.489	12.4	82	122	2,400	3,500
Single-mode E 9 OS2								
26310902	9/125 OS2	2	0.331	8.4	36	54	600	1,000
26310904	9/125 OS2	4	0.331	8.4	36	54	800	1,350
26310908	9/125 OS2	8	0.457	11.6	64	95	1,600	2,700
26310912	9/125 OS2	12	0.489	12.4	82	122	2,400	3,500

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Single-mode & Multi-mode Glass Optical Fiber Cable with Fire-Resistant Design



HITRONIC® FIRE is a universal (indoor/outdoor) fire-resistant loose-tube fiber optic cable with a corrugated steel tape armor, a strain relief element, and a halogen-free outer jacket. The cable is water-tight and provides excellent rodent protection.

Recommended Applications

Indoor and outdoor use; can be installed in highly combustible or fire-prone areas and harsh environments such as tunnels

Approvals



Cable Attributes, see page 659

	OR-00		FR-04		FL-01		MP-01
OIL		FLAME		MOTION		MECHANICAL	

Construction

Core: Glass

Cladding: Glass

Tube: Gel-filled loose tube

Inner Jacket: Black LSZH

Outer Jacket: Black LSZH

Strain Relief: Reinforced glass yarns

Armoring: Corrugated steel tape

Application Advantage

- Fire-resistant design: data transmission even in event of fire for up to 90 minutes
- Steel armor provides excellent protection against mechanical stress and rodents
- UV and water-resistant

Technical Data



Minimum Bend Radius:

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



Permissible Tensile Force:

- Stationary installation: 1500 N
- Short-term: 2200 N



Temperature Range:

- Operating temperature: -30°C to +70°C
- Installation temperature: 0°C to +50°C



Identification of Fibers:

Blue, orange, green, brown, gray, white, red, black, yellow, violet, pink, turquoise



Cable Designation:

A/J-DQ(ZN)BH(SR)H or
U-DQ(ZN)BH(SR)H

Part Number	Fiber Type	Number of Fibers	Outer Diameter (inches)	Outer Diameter (mm)	Approx. Weight (lbs/mft)	Approx. Weight (kg/km)
Multi-mode G 50 OM3						
27560304	50/125 OM3	4	0.386	9.8	83	123
27560308	50/125 OM3	8	0.386	9.8	83	123
27560312	50/125 OM3	12	0.504	12.8	126	188
27560324	50/125 OM3	24	0.504	12.8	126	188
Multi-mode G 50 OM2						
27560204	50/125 OM2	4	0.386	9.8	83	123
27560208	50/125 OM2	8	0.386	9.8	83	123
27560212	50/125 OM2	12	0.504	12.8	126	188
27560224	50/125 OM2	24	0.504	12.8	126	188
Multi-mode G 50 OM1						
27560104	62.5/125 OM1	4	0.386	9.8	83	123
27560108	62.5/125 OM1	8	0.386	9.8	83	123
27560112	62.5/125 OM1	12	0.504	12.8	126	188
27560124	62.5/125 OM1	24	0.504	12.8	126	188
Single-mode E 9 OS2						
27560904	9/125 OS2	4	0.386	9.8	83	123
27560908	9/125 OS2	8	0.386	9.8	83	123
27560912	9/125 OS2	12	0.504	12.8	126	188
27560924	9/125 OS2	24	0.504	12.8	126	188

Photographs are not to scale and are not true representations of the products in question.

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