

HITRONIC® HQN

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.

Construction

Core: Glass

Cladding: Glass

Tube: Gel-filled loose tube

Outer Jacket: Halogen-free polyethylene; black

Strain Relief: Reinforced glass yarns

Recommended Applications

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

Approvals



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

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

Technical Data

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

Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight	
			(in)	(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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For current information go to our website.

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

Cable Attributes				page 640	
	OIL	OR-00		FLAME	FR-03
	MOTION	FL-01		MECH.	MP-01

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: LSZH compound; black

Strain Relief: Reinforced glass yarns

Application Advantage

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

Approvals



Technical Data



Minimum Bend Radius:

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



Temperature Range:

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



Permissible Tensile Force:

- for stationary use: 1500 N
- Short-term: 2000 N



Identification of Fibers:

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



Cable Designation:

A/J-DQ(ZN)BH

Part Number	Fiber Type	Number of Fibers	Outer Diameter		Approx. Weight	
			(in)	(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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HITRONIC® HDM

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: Halogen-free polyurethane; black

Strain Relief: Aramid yarns

Recommended Applications

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

Approvals



Cable Attributes		page 640	
 OIL	OR-04	 FLAME	FR-00
 MOTION	FL-02	 MECH.	MP-05

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 & halogen-free jacket

Technical Data

	Minimum Bend Radius:			Identification of Fibers:	Blue, orange, green, brown, gray, white, red, black
	- for stationary use:	15 x cable diameter			
	- for dynamic use:	20 x cable diameter			
	Temperature Range:			Cable Designation:	A/J-V(ZN) 11Y
	- for stationary use:	-40°C to +70°C			
	- for flexible use:	-20°C to +60°C			

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

Construction

Core: Tight-buffered glass fibers

Cladding: Glass

Inner Jacket: LSZH

Outer Jacket: Halogen-free polyurethane; black

Strain Relief: Aramid yarns

Recommended Applications

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

Application Advantage

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

Approvals



Cable Attributes		page 640	
	OIL	OR-04	FLAME FR-00
	MOTION	FL-02	MECH. MP-05

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/J-V(ZN)H11Y

Part Number	Fiber Type	Number of Fibers	Outer Diameter (in)	Outer Diameter (mm)	Approx. Weight (lbs/mft)	Approx. Weight (kg/km)	Permitted Tensile Force in N Installation	Permitted Tensile Force in N 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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HITRONIC® FIRE

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		page 640	
OIL	OR-00	FLAME	FR-04
MOTION	FL-01	MECH.	MP-01

Construction

Core: Glass

Cladding: Glass

Tube: Gel-filled loose tube

Inner Jacket: LSZH; black

Outer Jacket: LSZH; black

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: - for stationary use: 1500 N - Short-term: 2200 N	
Temperature Range: - Operating: -30°C to +70°C - Installation: 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 (in)	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

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