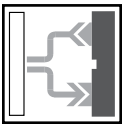


Fiber Optic Cables

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Introduction to Fiber Optic Cables

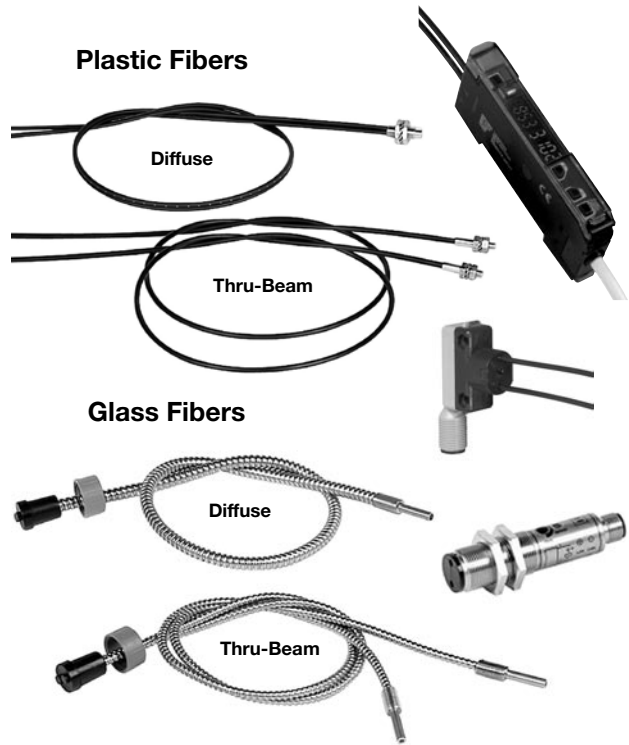


Fiber Optic Diffuse and Thru-Beam Mode

In applications involving small targets or unfavorable conditions, fiber optic cables may be the sensible solution. Glass fiber optic cables are constructed from tiny strands of glass that are bundled together inside an application-specific sheath. Plastic fiber optic cables are manufactured from a light conductive plastic monofilament material which is protected by a PVC jacket.

When attached to the end of certain photoelectric sensors, they guide the light through the cable and out at the sensing head. A separate fiber attached to the receiver returns the light. P+F offers both glass and plastic fiber optic cables. The diameter of the glass fiber optic cables is generally larger than plastic and provides a longer sensing range. P+F's glass cables can withstand temperatures as high as 900 °F while the plastic cables are rated as high as 221 °F. The plastic cables are generally utilized due to their small size and narrow beam diameter. This enables easy detection of small parts such as pins on an IC chip. Plastic cables can be "cut-to-length" in the field, therefore the correct length doesn't have to be specified when ordering. Obtaining the maximum light intensity possible in each application is accomplished by customizing the plastic cables to the shortest possible length. This will reduce the inherent "light losses" that occur inside the cable. P+F offers three standard types of sheaths: stainless steel, silicone, and PVC.

In diffuse mode sensing, a bifurcated cable (2 in 1) is used. Thru-beam requires two individual cables.



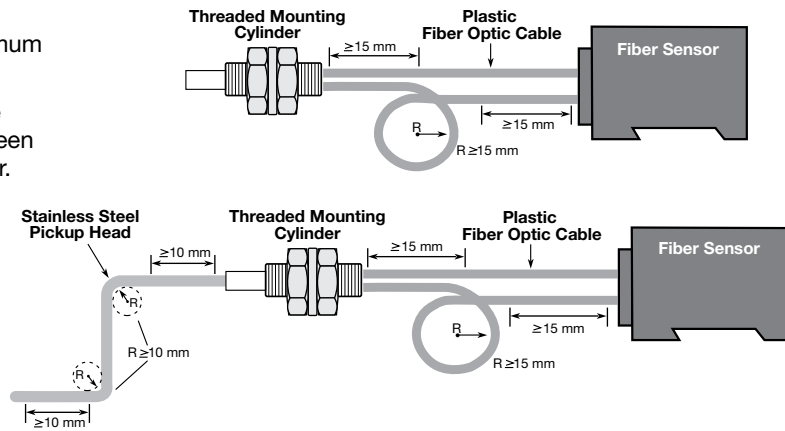
Mounting and Fitting

When positioning plastic fiber optic cable, a minimum bending radius of 15 mm must be maintained.

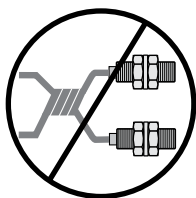
In addition, a straight section of ≥ 15 mm must be maintained at both ends of fiber optic cable between the threaded mounting cylinder and optical sensor.

Some fiber optic cables have a flexible stainless steel pickup attached. In such a case, a minimum bending radius of 10 mm must be maintained.

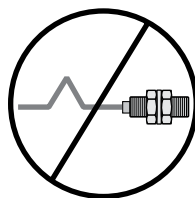
Also, to avoid damage to the pickup head light guide, a straight section of 10 mm must be maintained at both ends.



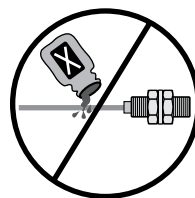
Please Note!



Do not twist or kink plastic fiber optic cables.



Avoid contact with petroleum or organic solvents.



Excessive pulling will lead to severe damage.

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Specifications for Glass Fiber Optic Cables

(with Model Numbers L...)

	PVC Sheathing	Stainless Steel Sheathing	Silicone Sheathing
Protection (IEC)	IP67	IP40	IP67
Bending Radius	≤ 30 mm	≤ 20 mm	≤ 25 mm
Working Temperature Range	-58 °F to +248 °F	-58 °F to +572 °F	-58 °F to +356 °F

Minimum Bend Radius for HPF and FE Cables

To help prevent possible damage to fiber optic cables, do not exceed the minimum bend radius.

Glass Armour Grip Cables	1 inch (25 mm)
Glass PVC Monocoil Cables	0.75 inch (19 mm)
Plastic Cables - 1 mm diameter core	1 inch (25 mm)
Plastic Cables - 0.5 mm diameter core	0.5 inch (12.5 mm)

Temperature Ranges for HPF and FE Cables

Fiber Optic Sensor Head	-22 °F to +158 °F (-30 °C to +70 °C)
Plastic Cable	-22 °F to +158 °F (-30 °C to +70 °C)
Plastic Cable (High Temp.)	-22 °F to +662 °F (-30 °C to +350 °C)
Plastic Cable Lens Accessories	-22 °F to +158 °F (-30 °C to +70 °C)
Glass Cable (PVC Monocoil)	-40 °F to +250 °F (-40 °C to +120 °C)
Glass Cable (Armour Grip)	-40 °F to +450 °F (-40 °C to +232 °C)
Glass Cable (High Temp.)	-40 °F to +900 °F (-40 °C to +482 °C)
Glass Cable End Tips	-40 °F to +585 °F (-40 °C to +307 °C)
Glass Cable Lens Accessories	-40 °F to +450 °F (-40 °C to +232 °C)

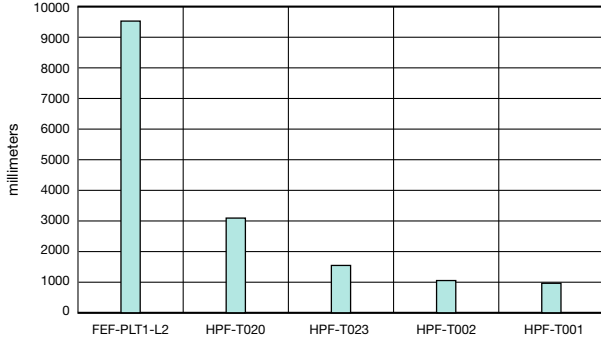
Application Specific Fiber Cables

Plastic Diffuse Long Range	HPF-D001-H
Plastic Diffuse Hi Flex	HPF-D012, HPF-D029, HPF-D030, HPF-D070
Plastic Diffuse Narrow Beam	HPF-D025
Plastic Diffuse Coaxial	HPF-D009, HPF-D010
Plastic Diffuse Pin Point	HPF-D010 with HPF-LU01
Plastic Thru-Beam Hi Temp	HPF-T012
Plastic Thru-Beam Long Range	FEF-PLT1, HPF-T001, HPF-T002, HPF-T020, HPF-T023
Plastic Thru-Beam Hi Flex	HPF-T008, HPF-T009, HPF-T024, HPF-T025, HPF-T070
Plastic Thru-Beam Narrow Beam	HPF-T023
Glass Diffuse Hi Temp	FE-B2B-3HT, FE-BTS6S-3HT
Glass Thru-Beam Hi Temp	FE-T2B-3HT, FE-ITS6S-3HT

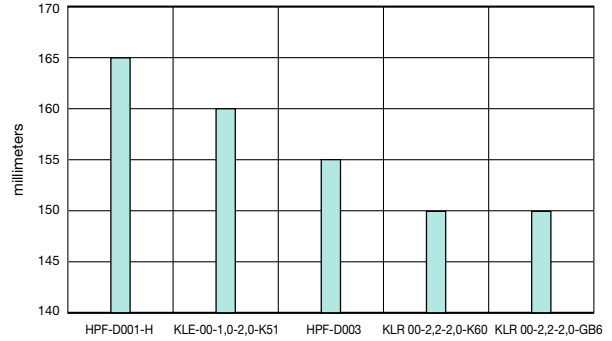
Introduction to Fiber Optic Cables

Longest Sensing Ranges

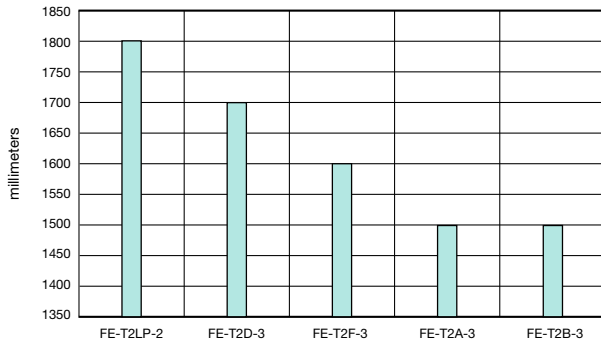
Plastic thru-beam fibers using SU16-K/82a/103/115 without lens accessories



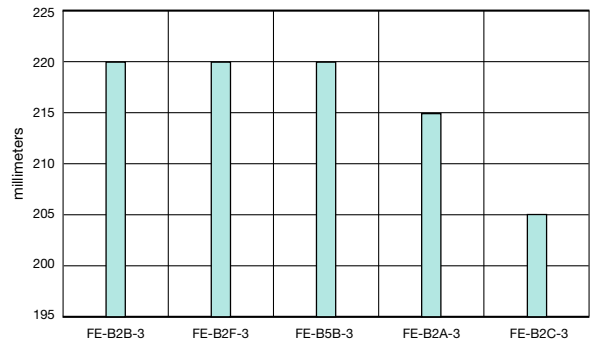
Plastic diffuse fibers using SU16-K/82a/103/115 without lens accessories



Glass thru-beam fibers using MPF6HD without lens accessories



Glass diffuse fibers using MPF6HD without lens accessories



Plastic Fiber Optic Cables

Diffuse Mode Plastic Fiber Optic Cables
for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

Cylindrical Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-D005-H ●	2 m	1.0 mm	Black polyethylene	SU15-K	35 mm	
				SU16 High Power	56 mm	
				SU16 High Speed	14 mm	
				SU16 Analog	4 mm	
				SU17	33 mm	
				SU17.1	100 mm	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
HPF-D004-H ●	2 m	1.0 mm	Black polyethylene	SU15-K	35 mm	
				SU16 High Power	56 mm	
				SU16 High Speed	14 mm	
				SU16 Analog	4 mm	
				SU17	33 mm	
				SU17.1	100 mm	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
KLR 00-1.0-2.0-K61	2 m	1.0 mm	PVC	SU15-K	32 mm	
				SU16 High Power	29 mm	
				SU16 High Speed	14 mm	
				SU16 Analog	variable	
				SU17	35 mm	
				SU17.1	variable	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
HPF-D010 ●	2 m	1.0 mm	Black polyethylene	SU15-K	29 mm	
				SU16 High Power	51 mm	
				SU16 High Speed	14 mm	
				SU16 Analog	4 mm	
				SU17	37 mm	
				SU17.1	90 mm	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
HPF-D025	2 m	1.0 mm	Black polyethylene	SU15-K	variable	
				SU16 High Power	20 mm	
				SU16 High Speed	12 mm	
				SU16 Analog	not compatible	
				SU17	20 mm	
				SU17.1	17 mm	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
KLR 00-2.2-2.0-K59	2 m	2.2 mm	PVC	SU15-K	100 mm	
				SU16 High Power	110 mm	
				SU16 High Speed	23 mm	
				SU16 Analog	variable	
				SU17	100 mm	
				SU17.1	variable	
				MHP-FR†	7 mm	
				MPF2HD‡	9 mm	
ML17-LL	variable					

- ⚡ Stocked item
 - Typical delivery 4 weeks or less
- Consult factory for all other models

† Requires MHPFOA adapter (sold separately).
‡ Requires MPZFOADPT adapter (sold separately).

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Plastic Fiber Optic Cables

Diffuse Mode Plastic Fiber Optic Cables

for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

Cylindrical Sensing Head (cont.)						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
KLR 00-2.2-2.0-G6*	2 m	2.2 mm	PVC	SU15-K	71 mm	<p>KLRF model has bundled fibers</p>
				SU16 High Power	89 mm	
SU16 High Speed	21 mm					
SU16 Analog	variable					
SU17	62 mm					
SU17.1	variable					
MHP-FR†	8 mm					
MPF2HD‡	5 mm					
ML17-LL	32 mm					
KLR 00-2.2-5.0-G6	2 m	2.2 mm	PVC	SU15-K	100 mm	
				SU16 High Power	130 mm	
SU16 High Speed	32 mm					
SU16 Analog	variable					
SU17	86 mm					
SU17.1	variable					
MHP-FR†	15 mm					
MPF2HD‡	8 mm					
ML17-LL	43 mm					
KLRF 00-2.2-2.0-G6	2 m	2.2 mm	PVC	SU15-K	100 mm	<p>KLRF model has bundled fibers</p>
				SU16 High Power	130 mm	
SU16 High Speed	32 mm					
SU16 Analog	variable					
SU17	86 mm					
SU17.1	variable					
MHP-FR†	15 mm					
MPF2HD‡	8 mm					
ML17-LL	43 mm					
HPF-D001-H ⚡	2 m	2.2 mm	Black polyethylene	SU15-K	140 mm	
				SU16 High Power	165 mm	
SU16 High Speed	52 mm					
SU16 Analog	24 mm					
SU17	140 mm					
SU17.1	550 mm					
MHP-FR†	33 mm					
MPF2HD‡	23 mm					
ML17-LL	85 mm					
HPF-D002-H* ⚡	2 m	2.2 mm	Black polyethylene	SU15-K	105 mm	<p>Nut and washer: M6 x 0.75</p>
				SU16 High Power	145 mm	
SU16 High Speed	44 mm					
SU16 Analog	16 mm					
SU17	110 mm					
SU17.1	400 mm					
MHP-FR†	18 mm					
MPF2HD‡	10 mm					
ML17-LL	60 mm					
HPF-D002-HL5	5 m	2.2 mm	Black polyethylene	SU15-K	105 mm	
				SU16 High Power	140 mm	
SU16 High Speed	45 mm					
SU16 Analog	16 mm					
SU17	110 mm					
SU17.1	400 mm					
MHP-FR†	21 mm					
MPF2HD‡	14 mm					
ML17-LL	62 mm					
HPF-D009	2 m	2.2 mm	Black polyethylene	SU15-K	110 mm	
				SU16 High Power	150 mm	
SU16 High Speed	50 mm					
SU16 Analog	variable					
SU17	120 mm					
SU17.1	variable					
MHP-FR†	24 mm					
MPF2HD‡	12 mm					
ML17-LL	69 mm					

* Sensing ranges based on this model.
 † Requires MHPFOA adapter (sold separately).
 ‡ Requires MPZF-OADPT adapter (sold separately).

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Bendable Sensing Tip						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
KLR 00-1.0-2.0-K58	2 m	1.0 mm	PVC	SU15-K	25 mm	
				SU16 High Power	79 mm	
				SU16 High Speed	5 mm	
				SU16 Analog	variable	
				SU17	23 mm	
				SU17.1	variable	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
ML17-LL	10 mm	Adapter included				
HPF-D006 ●	2 m	1.0 mm	Black polyethylene	SU15-K	32 mm	
				SU16 High Power	41 mm	
				SU16 High Speed	14 mm	
				SU16 Analog	4 mm	
				SU17	39 mm	
				SU17.1	variable	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
ML17-LL	20 mm	Adapter included				
HPF-D003 ●	2 m	2.2 mm	Black polyethylene	SU15-K	115 mm	
				SU16 High Power	155 mm	
				SU16 High Speed	50 mm	
				SU16 Analog	16 mm	
				SU17	120 mm	
				SU17.1	400 mm	
				MHP-FR†	22 mm	
				MPF2HD‡	10 mm	
ML17-LL	70 mm					
KLR 00-2.2-2.0-K57	2 m	2.2 mm	PVC	SU15-K	77 mm	
				SU16 High Power	92 mm	
				SU16 High Speed	27 mm	
				SU16 Analog	variable	
				SU17	72 mm	
				SU17.1	variable	
				MHP-FR†	6 mm	
				MPF2HD‡	5 mm	
ML17-LL	34 mm					
KLR 00-2.2-2.0-GB6	2 m	2.2 mm	PVC	SU15-K	97 mm	
				SU16 High Power	150 mm	
				SU16 High Speed	27 mm	
				SU16 Analog	variable	
				SU17	99 mm	
				SU17.1	variable	
				MHP-FR†	14 mm	
				MPF2HD‡	8 mm	
ML17-LL	52 mm					
KLRF 00-2.2-2.0-GB6	2 m	2.2 mm	PVC	SU15-K	83 mm	
				SU16 High Power	105 mm	
				SU16 High Speed	25 mm	
				SU16 Analog	variable	
				SU17	70 mm	
				SU17.1	variable	
				MHP-FR†	10 mm	
				MPF2HD‡	7 mm	
ML17-LL	35 mm					

† Requires MHPFOA adapter (sold separately).
‡ Requires MPZFOADPT adapter (sold separately).

- ⚡ Stocked item
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Consult factory for all other models

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Plastic Fiber Optic Cables

Diffuse Mode Plastic Fiber Optic Cables

for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

Side View/Periscope Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-D011 •	2 m	1.0 mm	Black polyethylene	SU15-K	15 mm	
				SU16 High Power	25 mm	
				SU16 High Speed	7 mm	
				SU16 Analog	not compatible	
				SU17	14 mm	
				SU17.1	38 mm	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
ML17-LL	6 mm	Adapter included				

Array Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-D026	2 m	2.2 mm	Black polyethylene	SU15-K	variable	
				SU16 High Power	100 mm	
				SU16 High Speed	20 mm	
				SU16 Analog	10 mm	
				SU17	75 mm	
				SU17.1	290 mm	
				MHP-FR†	variable	
				MPF2HD‡	variable	
ML17-LL	variable					

High Flex Cable

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-D029	2 m	1.0 mm	Black polyethylene	SU15-K	variable	
				SU16 High Power	10 mm	
				SU16 High Speed	2 mm	
				SU16 Analog	not compatible	
				SU17	7 mm	
				SU17.1	25 mm	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
ML17-LL	variable					
HPF-D030	2 m	2.2 mm	Black polyethylene	SU15-K	86 mm	
				SU16 High Power	120 mm	
				SU16 High Speed	33 mm	
				SU16 Analog	8 mm	
				SU17	87 mm	
				SU17.1	220 mm	
				MHP-FR†	15 mm	
				MPF2HD‡	7 mm	
ML17-LL	46 mm					

⚡ Stocked item

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‡ Requires MPZFADPT adapter (sold separately).

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Diffuse Mode Plastic Fiber Optic Cables
for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

High Flex Cable (cont.)						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-D012 ●	2 m	2.2 mm	Black polyethylene	SU15-K	96 mm	<p>Nut and washer: M6 x 0.75 Very elastic: Bend radius = 4mm for moving equipment</p>
				SU16 High Power	130 mm	
				SU16 High Speed	39 mm	
				SU16 Analog	not compatible	
				SU17	97 mm	
				SU17.1	250 mm	
				MHP-FR†	18 mm	
				MPF2HD‡	12 mm	
ML17-LL	51 mm					
HPF-D070-H	2 m	2.2 mm	Black polyethylene	SU15-K	variable	<p>Very elastic: Bend radius = 0.5 mm</p>
				SU16 High Power	variable	
				SU16 High Speed	variable	
				SU16 Analog	variable	
				SU17	variable	
				SU17.1	variable	
				MHP-FR†	variable	
				MPF2HD‡	variable	
ML17-LL	variable					

Specialty Fiber Optic Cables						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
KLR 00-2.2-2.0-K40	2 m	2.2 mm	PVC	SU15-K (Diffuse)	92 mm	<p>Diffuse operation Convergent operation Thru-beam operation</p>
				SU15-K (Thru-Beam)	410 mm	
				SU16 High Power	130 mm	
				SU16 High Speed	40 mm	
				SU16 Analog	variable	
				SU17	95 mm	
				SU17.1	variable	
				MHP-FR†	19 mm	
				MPF2HD‡	12 mm	
				ML17-LL	52 mm	

⚡ Stocked item
● Typical delivery 4 weeks or less
Consult factory for all other models

† Requires MHPFOA adapter (sold separately).
‡ Requires MPZFOADPT adapter (sold separately).

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Plastic Fiber Optic Cables

Diffuse Mode Plastic Fiber Optic Cables

for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

Specialty Fiber Optic Cables (cont.)

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-D045LF	2 m	2.2 mm	Black polyethylene	SU15-K	variable	
				SU16 High Power	35 mm	
				SU16 High Speed	6 mm	
				SU16 Analog	3 mm	
				SU17	variable	
				SU17.1	105 mm	
				MHP-FR [†]	variable	
				MPF2HD [‡]	variable	
ML17-LL	variable					

Thru-Beam Mode Plastic Fiber Optic Cables

for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

All thru-beam mode plastic fiber optic cables are sold in pairs.

Cylindrical Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T009 ●	2 m	1.0 mm	Black polyethylene	SU15-K	85 mm	
				SU16 High Power	140 mm	
				SU16 High Speed	36 mm	
				SU16 Analog	20 mm	
				SU17	93 mm	
				SU17.1	165 mm	
				MHP-FR [†]	not compatible	
				MPF2HD [‡]	not compatible	
ML17-LL	57 mm					
HPF-T004-H	2 m	2.2 mm	Black polyethylene	SU15-K	320 mm	
				SU16 High Power	510 mm	
				SU16 High Speed	120 mm	
				SU16 Analog	80 mm	
				SU17	360 mm	
				SU17.1	1100 mm	
				MHP-FR [†]	90 mm	
				MPF2HD [‡]	51 mm	
ML17-LL	263 mm					
HPF-T002	2 m	2.2 mm	Black polyethylene	SU15-K	725 mm	
				SU16 High Power	1100 mm	
				SU16 High Speed	270 mm	
				SU16 Analog	160 mm	
				SU17	640 mm	
				SU17.1	2100 mm	
				MHP-FR [†]	145 mm	
				MPF2HD [‡]	86 mm	
ML17-LL	336 mm					

Elastic: Bend radius = 4 mm for moving equipment Adapter included

- ⚡ Stocked item
 - Typical delivery 4 weeks or less
- Consult factory for all other models

[†] Requires MHPFOA adapter (sold separately).
[‡] Requires MPZF-OADPT adapter (sold separately).

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All thru-beam mode plastic fiber optic cables are sold in pairs.

Plastic Fiber Optic Cables

Thru-Beam Mode Plastic Fiber Optic Cables for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

Cylindrical Sensing Head (cont.)						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T008	2 m	1.0 mm	Black polyethylene	SU15-K	85 mm	
				SU16 High Power	140 mm	
				SU16 High Speed	36 mm	
				SU16 Analog	20 mm	
				SU17	93 mm	
				SU17.1	165 mm	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
ML17-LL	49 mm					
KLE 00-1.0-2.0-K54	2 m	1.0 mm	PVC	SU15-K	65 mm	
				SU16 High Power	94 mm	
				SU16 High Speed	30 mm	
				SU16 Analog	variable	
				SU17	79 mm	
				SU17.1	variable	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
ML17-LL	42 mm					
KLE 00-2.2-2.0-K53	2 m	2.2 mm	PVC	SU15-K	320 mm	
				SU16 High Power	550 mm	
				SU16 High Speed	140 mm	
				SU16 Analog	variable	
				SU17	350 mm	
				SU17.1	variable	
				MHP-FR†	78 mm	
				MPF2HD‡	67 mm	
ML17-LL	258 mm					
HPF-T003 ⚡	2 m	2.2 mm	Black polyethylene	SU15-K	250 mm	
				SU16 High Power	390 mm	
				SU16 High Speed	95 mm	
				SU16 Analog	80 mm	
				SU17	230 mm	
				SU17.1	1100 mm	
				MHP-FR†	63 mm	
				MPF2HD‡	33 mm	
ML17-LL	123 mm					
HPF-T012	2 m	2.2 mm	Black polyethylene	SU15-K	240 mm	
				SU16 High Power	375 mm	
				SU16 High Speed	90 mm	
				SU16 Analog	not compatible	
				SU17	220 mm	
				SU17.1	670 mm	
				MHP-FR†	59 mm	
				MPF2HD‡	30 mm	
ML17-LL	118 mm					
HPF-T001 ⚡	2 m	2.2 mm	Black polyethylene	SU15-K	675 mm	
				SU16 High Power	990 mm	
				SU16 High Speed	250 mm	
				SU16 Analog	160 mm	
				SU17	690 mm	
				SU17.1	2100 mm	
				MHP-FR†	170 mm	
				MPF2HD‡	94 mm	
ML17-LL	363 mm					

Photoelectric Fiber Optic Cables

† Requires MHPFOA adapter (sold separately).
‡ Requires MPZFOADPT adapter (sold separately).

- ⚡ Stocked item
- Typical delivery 4 weeks or less
Consult factory for all other models

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Plastic Fiber Optic Cables

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Thru-Beam Mode Plastic Fiber Optic Cables

for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

Cylindrical Sensing Head (cont.)						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
KLE 00-1.0-2.0-K51	2 m	1.0 mm	PVC	SU15-K	87 mm	
				SU16 High Power	160 mm	
				SU16 High Speed	41 mm	
				SU16 Analog	variable	
				SU17	110 mm	
				SU17.1	variable	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
				ML17-LL	58 mm	
KLE 00-2.2-2.0-K52	2 m	2.2 mm	PVC	SU15-K	350 mm	
				SU16 High Power	530 mm	
				SU16 High Speed	135 mm	
				SU16 Analog	variable	
				SU17	260 mm	
				SU17.1	variable	
				MHP-FR†	115 mm	
				MPF2HD‡	69 mm	
				ML17-LL	186 mm	
KLE 00-2.2-2.0-G4	2 m	2.2 mm	PVC	SU15-K	250 mm	
				SU16 High Power	350 mm	
				SU16 High Speed	98 mm	
				SU16 Analog	variable	
				SU17	230 mm	
				SU17.1	variable	
				MHP-FR†	63 mm	
				MPF2HD‡	36 mm	
				ML17-LL	125 mm	
KLEF 00-2.2-2.0-G4	2 m	2.2 mm	PVC	SU15-K	230 mm	
				SU16 High Power	320 mm	
				SU16 High Speed	75 mm	
				SU16 Analog	variable	
				SU17	200 mm	
				SU17.1	variable	
				MHP-FR†	60 mm	
				MPF2HD‡	34 mm	
				ML17-LL	123 mm	
HPF-T023	2 m	1.0 mm	Black polyethylene	SU15-K	960 mm	
				SU16 High Power	1600 mm	
				SU16 High Speed	330 mm	
				SU16 Analog	240 mm	
				SU17	860 mm	
				SU17.1	3400 mm	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
				ML17-LL	467 mm	
FEF-PLT1	1 m	2.2 mm	Black polyethylene	SU15-K	7000 mm	
FEF-PLT1-L2*	2 m			SU16 High Power	9500 mm	
FEF-PLT1-L5	4 m			SU16 High Speed	2700 mm	
	10 m			SU16 Analog	variable	
					SU17	
		SU17.1	variable			
		MHP-FR†	1300 mm			
		MPF2HD‡	850 mm			
		ML17-LL	3528 mm			

* Sensing ranges based on this model.

† Requires MHPFOA adapter (sold separately).

‡ Requires MPZF-OADPT adapter (sold separately).

⚡ Stocked item

• Typical delivery 4 weeks or less

Consult factory for all other models

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Plastic Fiber Optic Cables

Thru-Beam Mode Plastic Fiber Optic Cables for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

Bendable Sensing Tip

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
KLE 00-1.0-2.0-K56	2 m	1.0 mm	PVC	SU15-K	45 mm	
				SU16 High Power	72 mm	
				SU16 High Speed	16 mm	
				SU16 Analog	variable	
				SU17	42 mm	
				SU17.1	variable	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
ML17-LL	22 mm					
KLE 00-2.2-2.0-K55	2 m	2.2 mm	PVC	SU15-K	250 mm	
				SU16 High Power	450 mm	
				SU16 High Speed	115 mm	
				SU16 Analog	variable	
				SU17	290 mm	
				SU17.1	variable	
				MHP-FR†	74 mm	
				MPF2HD‡	41 mm	
ML17-LL	157 mm					
KLE 00-2.2-2.0-GB4	2 m	2.2 mm	PVC	SU15-K	260 mm	
				SU16 High Power	400 mm	
				SU16 High Speed	105 mm	
				SU16 Analog	variable	
				SU17	265 mm	
				SU17.1	variable	
				MHP-FR†	71 mm	
				MPF2HD‡	49 mm	
ML17-LL	144 mm					
KLEF 00-2.2-2.0-GB4	2 m	2.2 mm	PVC	SU15-K	170 mm	
				SU16 High Power	230 mm	
				SU16 High Speed	61 mm	
				SU16 Analog	variable	
				SU17	140 mm	
				SU17.1	variable	
				MHP-FR†	31 mm	
				MPF2HD‡	23 mm	
ML17-LL	76 mm					

⚡ Stocked item

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‡ Requires MPZFOADPT adapter (sold separately).

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Plastic Fiber Optic Cables

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Photoelectric Fiber Optic Cables

Thru-Beam Mode Plastic Fiber Optic Cables

for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

Side View/Periscope Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T007	2 m	1.0 mm	Black polyethylene	SU15-K	80 mm	
				SU16 High Power	115 mm	
				SU16 High Speed	33 mm	
				SU16 Analog	12 mm	
				SU17	75 mm	
				SU17.1	145 mm	
				MHP-FR†	not compatible	
				MPF2HD‡	not compatible	
				ML17-LL	41 mm	
HPF-T021-H	2 m	2.2 mm	Black polyethylene	SU15-K	340 mm	
				SU16 High Power	500 mm	
				SU16 High Speed	130 mm	
				SU16 Analog	variable	
				SU17	310 mm	
				SU17.1	variable	
				MHP-FR†	105 mm	
				MPF2HD‡	53 mm	
				ML17-LL	165 mm	
HPF-T020	2 m	2.2 mm	Black polyethylene	SU15-K	1900 mm	
				SU16 High Power	3100 mm	
				SU16 High Speed	750 mm	
				SU16 Analog	320 mm	
				SU17	1950 mm	
				SU17.1	4300 mm	
				MHP-FR†	540 mm	
				MPF2HD‡	370 mm	
				ML17-LL	1028 mm	

Right Angle Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T010 ⚡	2 m	2.2 mm	Black polyethylene	SU15-K	86 mm	
				SU16 High Power	290 mm	
				SU16 High Speed	78 mm	
				SU16 Analog	not compatible	
				SU17	210 mm	
				SU17.1	820 mm	
				MHP-FR†	73 mm	
				MPF2HD‡	37 mm	
				ML17-LL	116 mm	

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- Consult factory for all other models

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 ‡ Requires MPZFOADPT adapter (sold separately).

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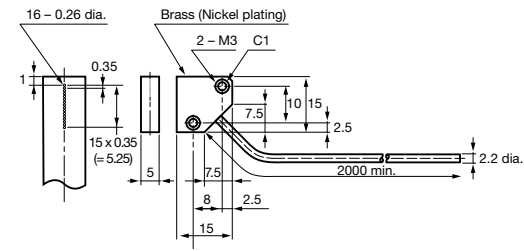
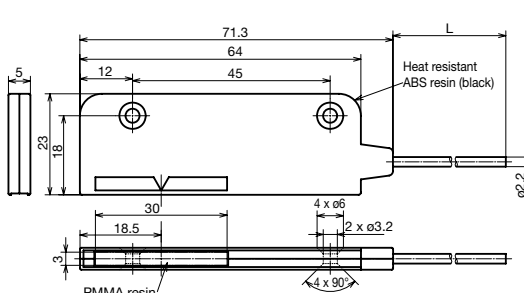
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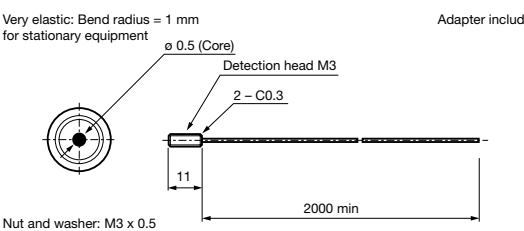
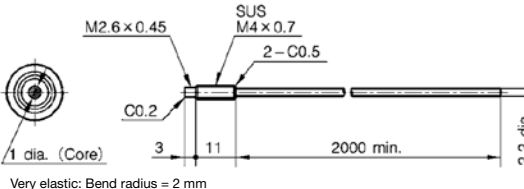


All thru-beam mode plastic fiber optic cables are sold in pairs.

Plastic Fiber Optic Cables

Thru-Beam Mode Plastic Fiber Optic Cables for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

Array Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T021	2 m	2.2 mm	Black polyethylene	SU15-K	290 mm	
				SU16 High Power	420 mm	
				SU16 High Speed	105 mm	
				SU16 Analog	50 mm	
				SU17	280 mm	
				SU17.1	740 mm	
				MHP-FR†	71 mm	
				MPF2HD‡	47 mm	
ML17-LL	150 mm					
HPF-T021WT	2 m	2.2 mm	PVC	SU15-K	variable	
				SU16 High Power	2000 mm	
				SU16 High Speed	400 mm	
				SU16 Analog	300 mm	
				SU17	1400 mm	
				SU17.1	3600 mm	
				MHP-FR†	variable	
				MPF2HD‡	variable	
ML17-LL	variable					

High Flex Cable						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T024	2 m	1.0 mm	Black polyethylene	SU15-K	variable	
				SU16 High Power	variable	
				SU16 High Speed	variable	
				SU16 Analog	variable	
				SU17	variable	
				SU17.1	variable	
				MHP-FR†	variable	
				MPF2HD‡	variable	
ML17-LL	variable					
HPF-T025	2 m	2.2 mm	Black polyethylene	SU15-K	280 mm	
				SU16 High Power	420 mm	
				SU16 High Speed	110 mm	
				SU16 Analog	9 mm	
				SU17	290 mm	
				SU17.1	870 mm	
				MHP-FR†	77 mm	
				MPF2HD‡	47 mm	
ML17-LL	155 mm					

- ⚡ Stocked item
 - Typical delivery 4 weeks or less
- Consult factory for all other models

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‡ Requires MPZFOADPT adapter (sold separately).

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Plastic Fiber Optic Cables

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Thru-Beam Mode Plastic Fiber Optic Cables

for SU15-K, SU16, SU17, SU17.1, MHP-FR, MPF2HD, and ML17-LL Amplifiers

High Flex Cable

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T070-H	990 mm	2.2 mm	Black polyethylene	SU15-K	variable	
				SU16 High Power	variable	
				SU16 High Speed	variable	
				SU16 Analog	variable	
				SU17	variable	
				SU17.1	variable	
				MHP-FR [†]	variable	
				MPF2HD [‡]	variable	
ML17-LL	variable					

Specialty Fiber Optic Cables

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T022-H ●	2 m	2.2 mm	Black polyethylene	SU15-K	10.7 mm	
				SU16 High Power	10.7 mm	
				SU16 High Speed	10.7 mm	
				SU16 Analog	10.7 mm	
				SU17	10.7 mm	
				SU17.1	10.7 mm	
				MHP-FR [†]	10.7 mm	
				MPF2HD [‡]	10.7 mm	
ML17-LL	10.7 mm					
HPF-T028	2 m	1.0 mm	Black polyethylene	SU15-K	variable	
				SU16 High Power	50 mm	
				SU16 High Speed	12 mm	
				SU16 Analog	not compatible	
				SU17	35 mm	
				SU17.1	140 mm	
				MHP-FR [†]	not compatible	
				MPF2HD [‡]	not compatible	
ML17-LL	variable					
HPF-T028LF	2 m	2.2 mm	Black polyethylene	SU15-K	variable	
				SU16 High Power	80 mm	
				SU16 High Speed	12 mm	
				SU16 Analog	10 mm	
				SU17	56 mm	
				SU17.1	210 mm	
				MHP-FR [†]	variable	
				MPF2HD [‡]	variable	
ML17-LL	variable					

⚡ Stocked item

- Typical delivery 4 weeks or less
- Consult factory for all other models

[†] Requires MHPFOA adapter (sold separately).
[‡] Requires MPZF-OADPT adapter (sold separately).

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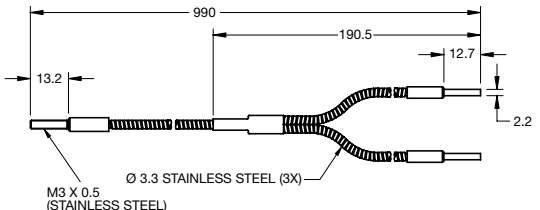
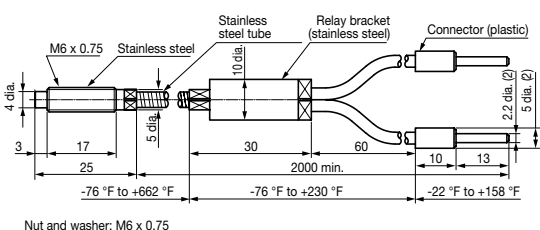
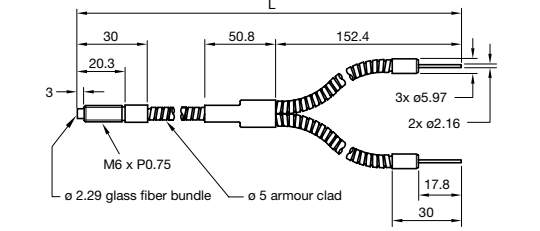
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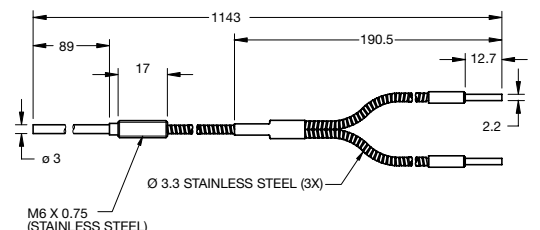
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Glass Fiber Optic Cables

Diffuse Mode Glass Fiber Optic Cables for SU15-K, SU16, SU17, SU17.1, and ML17-LL Amplifiers

Cylindrical Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-D048-H	990 mm	2.2 mm	Armour grip	SU15-K	variable	
				SU16 High Power	variable	
				SU16 High Speed	variable	
				SU16 Analog	variable	
				SU17	variable	
				SU17.1	variable	
ML17-LL	variable					
HPF-D015	2 m	2.2 mm	Stainless spiral tube	SU15-K	variable	
				SU16 High Power	90 mm	
				SU16 High Speed	18 mm	
				SU16 Analog	variable	
				SU17	60 mm	
				SU17.1	130 mm	
ML17-LL	variable					
HPF-D050-H*	1 m	2.29 mm	Armour grip	SU15-K	190 mm	
				SU16 High Power	variable	
HPF-D052-H	2 m	2.29 mm	Armour grip	SU16 High Speed	variable	
				SU16 Analog	variable	
				SU17	variable	
				SU17.1	variable	
ML17-LL	86 mm					

Bendable Sensing Tip						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-D056-H	1143 mm	2.2 mm	Armour grip	SU15-K	variable	
				SU16 High Power	variable	
				SU16 High Speed	variable	
				SU16 Analog	variable	
				SU17	variable	
				SU17.1	variable	
ML17-LL	variable					

* Sensing ranges based on this model.

- ⚡ Stocked item
 - Typical delivery 4 weeks or less
- Consult factory for all other models

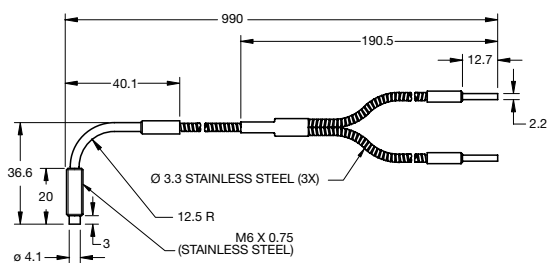
Glass Fiber Optic Cables

Diffuse Mode Glass Fiber Optic Cables

for SU15-K, SU16, SU17, SU17.1, and ML17-LL Amplifiers

- ⚡ Stocked item
- Typical delivery 4 weeks or less
- Consult factory for all other models

Right Angle Sensing Head

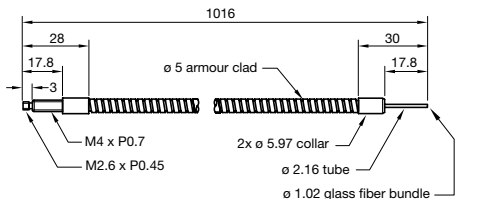
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-D055-H	990 mm	2.2 mm	Armour grip	SU15-K	variable	
				SU16 High Power	variable	
				SU16 High Speed	variable	
				SU16 Analog	variable	
				SU17	variable	
				SU17.1	variable	
				ML17-LL	variable	

Thru-Beam Mode Glass Fiber Optic Cables

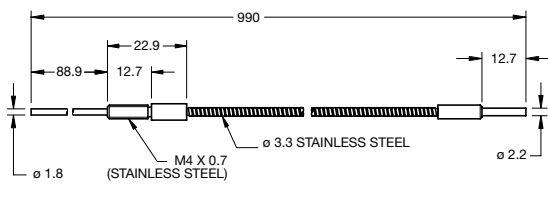
for SU15-K, SU16, SU17, SU17.1, and ML17-LL Amplifiers

Sold individually. To complete a thru-beam pair, two units are required.

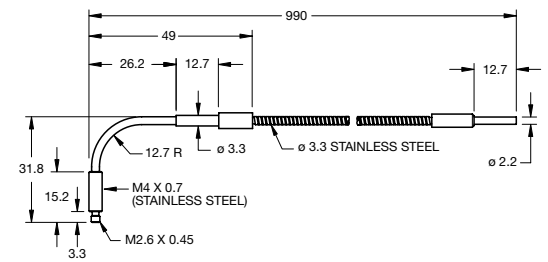
Cylindrical Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T052-H ●	1 m	1.02 mm	Armour grip	SU15-K	360 mm	
				SU16 High Power	510 mm	
				SU16 High Speed	150 mm	
				SU16 Analog	variable	
				SU17	360 mm	
				SU17.1	variable	
				ML17-LL	197 mm	

Bendable Sensing Tip

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T056-H	990 mm	2.2 mm	Armour grip	SU15-K	variable	
				SU16 High Power	variable	
				SU16 High Speed	variable	
				SU16 Analog	variable	
				SU17	variable	
				SU17.1	variable	
				ML17-LL	variable	

Right Angle Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T055-H	990 mm	2.2 mm	Armour grip	SU15-K	variable	
				SU16 High Power	variable	
				SU16 High Speed	variable	
				SU16 Analog	variable	
				SU17	variable	
				SU17.1	variable	
				ML17-LL	variable	

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Glass Fiber Optic Cables

Sold individually. To complete a thru-beam pair, two units are required.

Thru-Beam Mode Glass Fiber Optic Cables for SU15-K, SU16, SU17, SU17.1, and ML17-LL Amplifiers

Array Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
HPF-T020-H	520.7 mm	2.2 mm	PVC monocoil	SU15-K	550 mm	
				SU16 High Power	730 mm	
				SU16 High Speed	180 mm	
				SU16 Analog	variable	
				SU17	460 mm	
				SU17.1	variable	
				MHP-FR [†]	not compatible	
				MPF2HD [‡]	not compatible	
ML17-LL	246 mm					

Diffuse Mode Glass Fiber Optic Cables for MPF Amplifiers

Cylindrical Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-B2H-3	3ft	1.2mm	Armour grip	MPF Visible Red	7mm	
				MPF Infrared	64mm	
FE-B2F-3	3ft	3.2mm	Armour grip	MPF Visible Red	37mm	
				MPF Infrared	220mm	
FE-B2B-3* ⚡	3ft	3.2mm	Armour grip	MPF Visible Red	37mm	
FE-B2B-3HT [†]						
FE-B2B-5	5ft	3.2mm	Armour grip	MPF Infrared	220mm	
FE-B2B-5HT [†]						
FE-B2B-10	10ft	3.2mm	Armour grip	MPF Infrared	220mm	
FE-B2B-10HT [†]						
FE-B5B-3* ●	3ft	3.2mm	PVC monocoil	MPF Visible Red	37mm	
FE-B5B-5	5ft					
FE-B5B-10	10ft					

⚡ Stocked item

● Typical delivery 4 weeks or less
Consult factory for all other models

* Sensing ranges based on this model.
[†] High temperature model.

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SENSING YOUR NEEDS

Glass Fiber Optic Cables

Diffuse Mode Glass Fiber Optic Cables
for MPF Amplifiers

Photoelectric Fiber Optic Cables

Bendable Sensing Tip

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-B2P-3	3ft	1.5mm	Armour grip	MPF Visible Red	14mm	
				MPF Infrared	135mm	

Right Angle Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-B2R-3	3ft	1.2mm	Armour grip	MPF Visible Red	5mm	
				MPF Infrared	44mm	
FE-B2L-3*	3ft	3.2mm	Armour grip	MPF Visible Red	32mm	
FE-B2L-5	5ft			MPF Infrared	205mm	
FE-B2L-10	10ft			MPF Infrared	205mm	
FE-B5L-3*	3ft	3.2mm	PVC monocoil	MPF Visible Red	32mm	
FE-B5L-5	5ft			MPF Infrared	205mm	
FE-B2D-3*	3ft	3.2mm	Armour grip	MPF Visible Red	38mm	
FE-B2D-5	5ft			MPF Infrared	205mm	

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Glass Fiber Optic Cables

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Diffuse Mode Glass Fiber Optic Cables for MPF Amplifiers

Array Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-B2C-3*	3ft	0.02" x 0.5"	Armour grip	MPF Visible Red	36mm	
FE-B2C-5	5ft			MPF Infrared	205mm	
FE-B2C-10	10ft			MPF Infrared	205mm	
FE-B2A-3* •	3ft	0.01" x 1.5"	Armour grip	MPF Visible Red	41mm	
FE-B2A-5	5ft			MPF Infrared	215mm	
FE-B2A-10	10ft			MPF Infrared	215mm	

Sold individually. To complete a thru-beam pair, two units are required.

Thru-Beam Mode Glass Fiber Optic Cables for MPF Amplifiers

Cylindrical Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-T2H-3	3ft	1.2mm	Armour grip	MPF Visible Red	67mm	
				MPF Infrared	650mm	
FE-T2F-3	3ft	3.2mm	Armour grip	MPF Visible Red	200mm	
				MPF Infrared	1600mm	
FE-T2B-3* •	3ft	2.3mm	Armour grip	MPF Visible Red	195mm	
FE-T2B-3HT†				MPF Visible Red	195mm	
FE-T2B-5 •	5ft			MPF Infrared	1500mm	
FE-T2B-5HT†				MPF Infrared	1500mm	
FE-T2B-10	10ft			MPF Infrared	1500mm	
FE-T2B-10HT†		MPF Infrared	1500mm			
FE-T5B-3* •	3ft	2.3mm	PVC monocoil	MPF Visible Red	195mm	
FE-T5B-5	5ft			MPF Infrared	1500mm	
FE-T5B-10	10ft			MPF Infrared	1500mm	

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Glass Fiber Optic Cables

Thru-Beam Mode Glass Fiber Optic Cables
for MPF Amplifiers

Sold individually. To complete a thru-beam pair, two units are required.

Photoelectric Fiber Optic Cables

Right Angle Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-T2R-3	3ft	1.2mm	Armour grip	MPF Visible Red	64mm	
				MPF Infrared	525mm	
FE-T2L-3*	3ft	2.3mm	Armour grip	MPF Visible Red	175mm	
FE-T2L-5	5ft			MPF Infrared	1150mm	
FE-T2L-10	10ft			MPF Infrared	1150mm	
FE-T5L-3*	3ft	2.3mm	PVC monocoil	MPF Visible Red	175mm	
FE-T5L-5	5ft			MPF Infrared	1150mm	
FE-T5L-10	10ft			MPF Infrared	1150mm	
FE-T2D-3*	3ft	3.2mm	Armour grip	MPF Visible Red	260mm	
FE-T2D-5	5ft			MPF Infrared	1700mm	
FE-T2D-10	10ft			MPF Infrared	1700mm	
FE-T2LP-2	2ft	1mm	Armour grip	MPF Visible Red	475mm	
				MPF Infrared	1800mm	

Array Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-T2C-3*	3ft	0.02" x 0.5"	Armour grip	MPF Visible Red	240mm	
FE-T2C-5	5ft			MPF Infrared	1500mm	
FE-T2C-10	10ft			MPF Infrared	1500mm	

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Consult factory for all other models

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Glass Fiber Optic Cables

Sold individually. To complete a thru-beam pair, two units are required.

Thru-Beam Mode Glass Fiber Optic Cables for MPF Amplifiers

Array Sensing Head (cont.)

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-T2A-3* ●	3ft	0.01" x 1.5"	Armour grip	MPF Visible Red	240mm	
FE-T2A-5	5ft			MPF Infrared	1500mm	
FE-T2A-10	10ft					

Diffuse Mode Glass Fiber Optic Cables for MPG and MHP-F Amplifiers

Cylindrical Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-BHS1S-3* ⚡	3ft	0.69mm	Armour grip	MHP-F Visible Red	5mm	
FE-BHS1S-5	5ft			MHP-F Infrared	11mm	
FE-BHS1S-10	10ft			MPG Visible Red	6mm	
				MPG Infrared	23mm	
FE-BHS3S-3*	3ft	1.2mm	Armour grip	MHP-F Visible Red	10mm	
FE-BHS3S-5	5ft			MHP-F Infrared	30mm	
FE-BHS3S-10	10ft			MPG Visible Red	11mm	
				MPG Infrared	51mm	
FE-BFS6S-3* ⚡	3ft	3.2mm	Armour grip	MHP-F Visible Red	48mm	
FE-BFS6S-5	5ft			MHP-F Infrared	95mm	
				MPG Visible Red	60mm	
				MPG Infrared	190mm	
FE-BTS6S-3* ⚡	3ft	3.2mm	Armour grip	MHP-F Visible Red	45mm	
FE-BTS6S-3HT†	3ft			MHP-F Infrared	90mm	
FE-BTS6S-5	5ft			MPG Visible Red	55mm	
FE-BTS6S-5HT†	5ft					
FE-BTS6S-10	10ft			MPG Infrared	180mm	
FE-BTS6S-10HT†	10ft					

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Photoelectric Fiber Optic Cables

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Glass Fiber Optic Cables

Diffuse Mode Glass Fiber Optic Cables for MPG and MHP-F Amplifiers

Cylindrical Sensing Head (cont.)						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-BTS6M-3*	3ft	3.2mm	PVC monocoil	MHP-F Visible Red	45mm	
FE-BTS6M-5	5ft			MHP-F Infrared	90mm	
FE-BTS6M-10	10ft			MPG Visible Red	55mm	
				MPG Infrared	180mm	

Bendable Sensing Tip						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-BPS4S-3*	3ft	1.5mm	Armour grip	MHP-F Visible Red	12mm	
FE-BPS4S-5	5ft			MHP-F Infrared	39mm	
FE-BPS4S-10	10ft			MPG Visible Red	16mm	
				MPG Infrared	77mm	

Side View/Periscope Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-BNSRA5S-3* ⚡	3ft	2.3mm	Armour grip	MHP-F Visible Red	32mm	
FE-BNSRA5S-5	5ft			MHP-F Infrared	62mm	
FE-BNSRA5S-10	10ft			MPG Visible Red	37mm	
				MPG Infrared	170mm	
FE-BNSRA5M-3	3ft	2.3mm	PVC monocoil	MHP-F Visible Red	32mm	
				MHP-F Infrared	62mm	
				MPG Visible Red	37mm	
				MPG Infrared	170mm	

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Glass Fiber Optic Cables

Diffuse Mode Glass Fiber Optic Cables
for MPG and MHP-F Amplifiers

Right Angle Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-BHSRA3S-3*	3ft	1.2mm	Armour grip	MHP-F Visible Red	6mm	
FE-BHSRA3S-5	5ft			MHP-F Infrared	12mm	
FE-BHSRA3S-10	10ft			MPG Visible Red	7mm	
				MPG Infrared	30mm	
FE-BAS6S-3* ⚡	3ft	3.2mm	Armour grip	MHP-F Visible Red	45mm	
FE-BAS6S-5	5ft			MHP-F Infrared	97mm	
FE-BAS6S-10	10ft			MPG Visible Red	53mm	
				MPG Infrared	180mm	
FE-BTSAS6S-3* ●	3ft	3.2mm	Armour grip	MHP-F Visible Red	36mm	
FE-BTSAS6S-5	5ft			MHP-F Infrared	80mm	
FE-BTSAS6S-10	10ft			MPG Visible Red	43mm	
				MPG Infrared	170mm	
FE-BTSAS6M-3*	3ft	3.2mm	PVC monocoil	MHP-F Visible Red	36mm	
FE-BTSAS6M-5	5ft			MHP-F Infrared	80mm	
FE-BTSAS6M-10	10ft			MPG Visible Red	43mm	
				MPG Infrared	170mm	
FE-BASTS6S-3* ⚡	3ft	3.2mm	Armour grip	MHP-F Visible Red	52mm	
FE-BASTS6S-5	5ft			MHP-F Infrared	100mm	
FE-BASTS6S-10	10ft			MPG Visible Red	56mm	
				MPG Infrared	190mm	

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Glass Fiber Optic Cables

Diffuse Mode Glass Fiber Optic Cables

for MPG and MHP-F Amplifiers

Array Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-BRL6S-3* ⚡	3ft	0.02" x 0.5"	Armour grip	MHP-F Visible Red	42mm	
FE-BRL6S-5	5ft			MHP-F Infrared	92mm	
FE-BRL6S-10	10ft			MPG Visible Red	52mm	
				MPG Infrared	212mm	
FE-BRL6S-3RA*	3ft	0.81mm x 9.7mm	Armour grip	MHP-F Visible Red	40mm	
FE-BRL6S-5RA	5ft			MHP-F Infrared	86mm	
FE-BRL6S-5RA	5ft			MPG Visible Red	50mm	
				MPG Infrared	210mm	
FE-BRL7S-3*	3ft	0.01" x 1.5"	Armour grip	MHP-F Visible Red	46mm	
FE-BRL7S-5	5ft			MHP-F Infrared	104mm	
FE-BRL7S-10	10ft			MPG Visible Red	60mm	
				MPG Infrared	230mm	
FE-BRL7M-3	3ft	0.01" x 1.5"	PVC monocoil	MHP-F Visible Red	46mm	
				MHP-F Infrared	104mm	
				MPG Visible Red	60mm	
				MPG Infrared	230mm	

Thru-Beam Mode Glass Fiber Optic Cables

for MPG and MHP-F Amplifiers

Sold individually. To complete a thru-beam pair, two units are required.

Cylindrical Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-IHS1S-3*	3ft	0.69mm	Armour grip	MHP-F Visible Red	90mm	
FE-IHS1S-5	5ft			MHP-F Infrared	210mm	
FE-IHS1S-10	10ft			MPG Visible Red	105mm	
		MPG Infrared	510mm			

- ⚡ Stocked item
 - Typical delivery 4 weeks or less
- Consult factory for all other models

* Sensing ranges based on this model.

Subject to modifications without notice

Glass Fiber Optic Cables

Sold individually. To complete a thru-beam pair, two units are required.

Thru-Beam Mode Glass Fiber Optic Cables for MPG and MHP-F Amplifiers

Cylindrical Sensing Head (cont.)

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-IHS3S-3*	3ft	1.2mm	Armour grip	MHP-F Visible Red	95mm	
FE-IHS3S-5	5ft			MHP-F Infrared	220mm	
FE-IHS3S-10	10ft			MPG Visible Red	108mm	
				MPG Infrared	520mm	
FE-IFS6S-3*	3ft	3.2mm	Armour grip	MHP-F Visible Red	320mm	
FE-IFS6S-5	5ft			MHP-F Infrared	770mm	
FE-IFS6S-10	10ft			MPG Visible Red	350mm	
				MPG Infrared	1300mm	
FE-ITS6S-3* ⚡	3ft	3.2mm	Armour grip	MHP-F Visible Red	300mm	
FE-ITS6S-3HT†				MHP-F Infrared	825mm	
FE-ITS6S-5 ●	5ft			MPG Visible Red	330mm	
FE-ITS6S-5HT†				MPG Infrared	1450mm	
FE-ITS6S-10	10ft	3.2mm	PVC monocoil	MHP-F Visible Red	300mm	
FE-ITS6S-10HT†				MHP-F Infrared	825mm	
FE-ITS6M-3*	3ft			MPG Visible Red	330mm	
FE-ITS6M-5	5ft			MPG Infrared	1450mm	
FE-ITS6M-10	10ft					

Bendable Sensing Tip

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-IPS4S-3*	3ft	1.5mm	Armour grip	MHP-F Visible Red	190mm	
FE-IPS4S-5	5ft			MHP-F Infrared	560mm	
FE-IPS4S-10	10ft			MPG Visible Red	200mm	
				MPG Infrared	1000mm	

Side View/Periscope Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-INSRA5S-3* ●	3ft	2.3mm	Armour grip	MHP-F Visible Red	180mm	
FE-INSRA5S-5	5ft			MHP-F Infrared	400mm	
FE-INSRA5S-10	10ft			MPG Visible Red	220mm	
				MPG Infrared	810mm	

- ⚡ Stocked item
- Typical delivery 4 weeks or less
Consult factory for all other models

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† High temperature model.

Glass Fiber Optic Cables

Thru-Beam Mode Glass Fiber Optic Cables for MPG and MHP-F Amplifiers

Sold individually. To complete a thru-beam pair, two units are required.

Photoelectric Fiber Optic Cables

Right Angle Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-IHSRA3S-3*	3ft	1.2mm	Armour grip	MHP-F Visible Red	90mm	
FE-IHSRA3S-5	5ft			MHP-F Infrared	190mm	
FE-IHSRA3S-10	10ft			MPG Visible Red	118mm	
				MPG Infrared	540mm	
FE-IAS6S-3* ⚡	3ft	3.2mm	Armour grip	MHP-F Visible Red	340mm	
FE-IAS6S-5	5ft			MHP-F Infrared	950mm	
FE-IAS6S-10	10ft			MPG Visible Red	360mm	
				MPG Infrared	1450mm	
FE-ITSAS6S-3* ●	3ft	3.2mm	Armour grip	MHP-F Visible Red	260mm	
FE-ITSAS6S-5 ●	5ft			MHP-F Infrared	660mm	
FE-ITSAS6S-10	10ft			MPG Visible Red	330mm	
				MPG Infrared	1280mm	
FE-ITSAS6M-3*	3ft	3.2mm	PVC monocoil	MHP-F Visible Red	260mm	
FE-ITSAS6M-5	5ft			MHP-F Infrared	660mm	
FE-ITSAS6M-10	10ft			MPG Visible Red	330mm	
				MPG Infrared	1280mm	
FE-IASTS6S-3* ⚡	3ft	3.2mm	Armour grip	MHP-F Visible Red	300mm	
FE-IASTS6S-5	5ft			MHP-F Infrared	800mm	
FE-IASTS6S-10	10ft			MPG Visible Red	340mm	
				MPG Infrared	1300mm	

Array Sensing Head

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-IRL6S-3*	3ft	0.02" x 0.5"	Armour grip	MHP-F Visible Red	280mm	
FE-IRL6S-5	5ft			MHP-F Infrared	700mm	
FE-IRL6S-10	10ft			MPG Visible Red	320mm	
				MPG Infrared	1200mm	

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Glass Fiber Optic Cables

Sold individually. To complete a thru-beam pair, two units are required.

Thru-Beam Mode Glass Fiber Optic Cables for MPG and MHP-F Amplifiers

Array Sensing Head (cont.)

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
FE-IRL7S-3*	3ft	0.01" x 1.5"	Armour grip	MHP-F Visible Red	310mm	
FE-IRL7S-5	5ft			MHP-F Infrared	750mm	
FE-IRL7S-10	10ft			MPG Visible Red	330mm	
				MPG Infrared	1250mm	
FE-IRL7S-3R	3ft	0.01" x 1.5"	Armour grip	MHP-F Visible Red	300mm	
				MHP-F Infrared	740mm	
				MPG Visible Red	325mm	
				MPG Infrared	1200mm	

- ⚡ Stocked item
- Typical delivery 4 weeks or less
Consult factory for all other models

Diffuse Mode Glass Fiber Optic Cables for SU15-G Amplifiers

Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LMR 06-1.1-0.5-K3	0.5m	1.1mm	Metal	SU15-G	10mm	
LMR 06-2.3-0.25-K3*	0.25m	2.3mm	Metal	SU15-G	45mm	
LMR 06-2.3-0.5-K3	0.5m					
LCR 06-3.2-0.5-K1	0.5m	3.2mm	PVC	SU15-G	100mm	
LSR 06-3.2-0.5-K1	0.5m	3.2mm	Metal-silicone	SU15-G	100mm	
LMR 06-3.2-0.5-K1*	0.5m	3.2mm	Metal	SU15-G	100mm	
LMR 06-3.2-1.0-K1	1m					
LMR 06-3.2-2.0-K1	2m					
LMR 06-3.2-3.0-K1	3m					
LCR 06-3.2-0.5-K2*	0.5m	3.2mm	PVC	SU15-G	100mm	
LCR 06-3.2-2.0-K2	2m					

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Diffuse Mode Glass Fiber Optic Cables for SU15-G Amplifiers

Cylindrical Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LMR 06-2.3-0.5-K7	0.5m	2.3mm	Metal	SU15-G	45mm	
LCR 06-3.2-0.5-K5*	0.5m	3.2mm	PVC	SU15-G	100mm	
LCR 06-3.2-1.0-K5	1m					
LMR 06-3.2-2.0-K4	2m	3.2mm	Metal	SU15-G	100mm	

Right Angle Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LMR 06-2.7-0.5-K9	0.5m	2.7mm	Metal	SU15-G	75mm	

Thru-Beam Mode Glass Fiber Optic Cables for SU15-G Amplifiers

Cylindrical Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LME 06-2.3-0.5-K3	0.5m	2.3mm	Metal	SU15-G	600mm	
LCE 06-2.3-0.5-K2	0.5m	2.3mm	PVC	SU15-G	600mm	

- ⚡ Stocked item
- Typical delivery 4 weeks or less
Consult factory for all other models

* Sensing ranges based on this model.

Subject to modifications without notice

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Glass Fiber Optic Cables

Thru-Beam Mode Glass Fiber Optic Cables
for SU15-G Amplifiers

Cylindrical Sensing Head (cont.)						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LME 06-2.3-1.0-K2	1m	2.3mm	Metal	SU15-G	600mm	
LME 06-2.3-0.5-K4	0.5m	2.3mm	Metal	SU15-G	600mm	

Right Angle Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LCE 06-1.9-0.5-K9	0.5m	1.9mm	PVC	SU15-G	500mm	
LSE 06-1.1-0.5-K9	0.5m	1.1mm	Silicone	SU15-G	100mm	
LME 06-1.9-0.5-K9	0.5m	1.9mm	Metal	SU15-G	500mm	
LME 06-2.3-0.5-K10	0.5m	2.3mm	Metal	SU15-G	600mm	

- ⚡ Stocked item
- Typical delivery 4 weeks or less
Consult factory for all other models

Glass Fiber Optic Cables

Diffuse Mode Glass Fiber Optic Cables
for OCT300-M1K and VL18LL

Photoelectric Fiber Optic Cables

Cylindrical Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LMR 18-1.1-0.5-K3	0.5m	1.1mm	Metal	OJ500-M1K	24mm	
				OCT500-M1A	24mm	
				OCT300-M1K	9mm	
				VL18LL	5mm	
LMR 18-2.3-0.25-K3	0.25m	2.3mm	Metal	OJ500-M1K	85mm	
				OCT500-M1A	85mm	
				OCT300-M1K	37mm	
				VL18LL	25mm	
LMR 18-2.3-0.5-K3	0.5m	2.3mm	Metal	OJ500-M1K	85mm	
				OCT500-M1A	85mm	
				OCT300-M1K	37mm	
				VL18LL	25mm	
LCR 18-3.2-0.5-K1	0.5m	3.2mm	PVC	OJ500-M1K	300mm	
				OCT500-M1A	300mm	
				OCT300-M1K	85mm	
				VL18LL	variable	
LMR 18-3.2-0.5-K1	0.5m	3.2mm	Metal	OJ500-M1K	153mm	
LMR 18-3.2-1.0-K1*	1m			OCT500-M1A	153mm	
LMR 18-3.2-2.0-K1	2m			OCT300-M1K	62mm	
LMR 18-3.2-3.0-K1	3m			VL18LL	43mm	
LCR 18-3.2-0.5-K2*	0.5m	3.2mm	PVC	OJ500-M1K	185mm	
				OCT500-M1A	185mm	
				OCT300-M1K	74mm	
				VL18LL	44mm	
LCR 18-3.2-2.0-K2	2m					
LMR 18-2.3-0.5-K2	0.5m	2.3mm	Metal	OJ500-M1K	80mm	
				OCT500-M1A	80mm	
				OCT300-M1K	30mm	
				VL18LL	23mm	
LMR 18-2.3-0.5-K7	0.5m	2.3mm	Metal	OJ500-M1K	80mm	
				OCT500-M1A	80mm	
				OCT300-M1K	30mm	
				VL18LL	23mm	
LMR 18-3.2-2.0-K4	2m	3.2mm	Metal	OJ500-M1K	173mm	
				OCT500-M1A	173mm	
				OCT300-M1K	65mm	
				VL18LL	40mm	

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Glass Fiber Optic Cables

- ⚡ Stocked item
- Typical delivery 4 weeks or less
- Consult factory for all other models

Diffuse Mode Glass Fiber Optic Cables for OCT300-M1K and VL18LL

Right Angle Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LCR 18-2.7-1.0-K9	1m	2.7mm	PVC	OJ500-M1K	95mm	
				OCT500-M1A	95mm	
				OCT300-M1K	38mm	
				VL18LL	25mm	
LMR 18-2.7-0.5-K9	0.5m	2.7mm	Metal	OJ500-M1K	95mm	
				OCT500-M1A	95mm	
				OCT300-M1K	38mm	
				VL18LL	25mm	
LSR 18-2.3-0.5-K12	0.5m	2.3mm	Silicone	OJ500-M1K	75mm	
				OCT500-M1A	75mm	
				OCT300-M1K	30mm	
				VL18LL	21mm	

Thru-Beam Mode Glass Fiber Optic Cables for OCT300-M1K and VL18LL

Cylindrical Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LME 18-2.3-0.5-K3	0.5m	2.3mm	Metal	OJ500-M1K	1300mm	
				OCT500-M1A	1300mm	
				OCT300-M1K	410mm	
				VL18LL	360mm	
LGE 18-2.3-0.5-K2	0.5m	2.3mm	PVC	OJ500-M1K	1300mm	
				OCT500-M1A	1300mm	
				OCT300-M1K	410mm	
				VL18LL	360mm	
LME 18-2.3-0.5-K2	0.5m	2.3mm	Metal	OJ500-M1K	1300mm	
LME 18-2.3-1.0-K2*	1m			OCT500-M1A	1300mm	
LME 18-2.3-2.0-K2	2m			OCT300-M1K	410mm	
LME 18-2.3-0.5-K4	0.5m	2.3mm	Metal	OJ500-M1K	1300mm	
				OCT500-M1A	1300mm	
				OCT300-M1K	410mm	
				VL18LL	not compatible	

* Sensing ranges based on this model.

Glass Fiber Optic Cables

Thru-Beam Mode Glass Fiber Optic Cables
for OCT300-M1K and VL18LL

Photoelectric Fiber Optic Cables

Right Angle Sensing Head						
Model Number	Cable Length	Fiber Diameter	Sheathing Material	Compatible Amplifiers	Sensing Range	Dimensions (mm)
LCE 18-2.3-0.5-K9	0.5m	2.3mm	PVC	OJ500-M1K	830mm	
				OCT500-M1A	830mm	
				OCT300-M1K	240mm	
				VL18LL	240mm	
LSE 18-1.1-0.5-K9	0.5m	1.1mm	Silicone	OJ500-M1K	275mm	
				OCT500-M1A	275mm	
				OCT300-M1K	97mm	
				VL18LL	89mm	
LME 18-1.9-0.5-K9	0.5m	1.9mm	Metal	OJ500-M1K	1050mm	
				OCT500-M1A	1050mm	
				OCT300-M1K	310mm	
				VL18LL	270mm	
LME 18-2.3-0.5-K10	0.5m	2.3mm	Metal	OJ500-M1K	830mm	
				OCT500-M1A	830mm	
				OCT300-M1K	308mm	
				VL18LL	not compatible	

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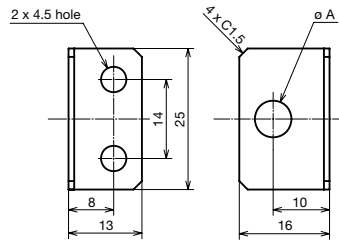
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(Dimensions in mm)

Accessories for Plastic and Glass Fiber Optic Cables

Right Angle Mounting Bracket
for fiber optic cables with M3, M4, or M6 threaded optic heads.

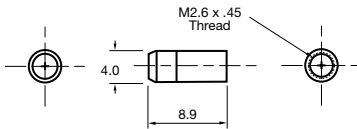
Model No.	Hole Diameter A
FE-PA-FB1	3.5 mm
FE-PA-FB2	4.5 mm
FE-PA-FB4	6.5 mm



Accessories for Plastic Fiber Optic Cables

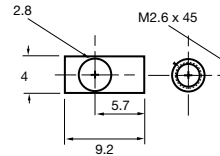
FE-PA-L1

Glass lens accessory pair for use with HPF-T003, HPF-T004, HPF-T010, and HPF-T025 cables. Will improve thru-beam range 3 to 5 times. Threads onto M2.6 fiber head. Sold as a pair.



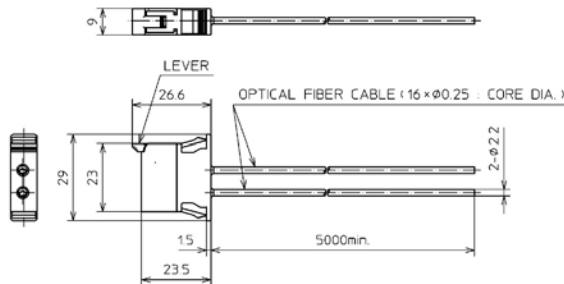
FE-PA-S1

Right angle glass lens accessory pair for use with HPF-T003, HPF-T004, HPF-T010, and HPF-T025 cables. Threads onto M2.6 fiber head. Sold as a pair.



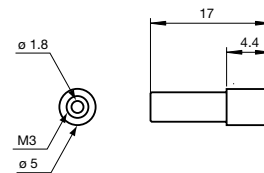
HPF-EU05

5m fiber optic cable extension accessory. For plastic fiber optic cables.



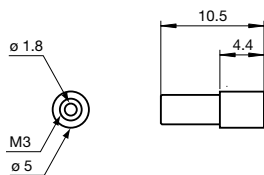
HPF-LU01

Light will converge to a spot diameter of 0.4mm when this lens is attached to HPF-D010.



HPF-LU02

Light will converge to a spot diameter of 2mm when this lens is attached to HPF-D010.



Fiber Optic Cable Accessories

(Dimensions in mm)

Accessories for Plastic Fiber Optic Cables (cont.)

MHPFOA

One-piece adapter that allows use of 2.2mm diameter plastic fiber optic cables with MHP sensor.



MPZFOADPT

Pair of adapters that allow use of 2.2mm diameter plastic fiber optic cables with MPF head. Sold as a pair.



PFA-1MM

The supplied adapter must be used to ensure proper connection for all 1mm bundle diameter plastic fiber optic cables. Sold individually. Two units are required for a fiber optic cable.



HPF-ADPT-3

Alternative adapter shaped like a small straw that ensures proper connection for all 1 mm bundle diameter plastic fiber optic cables. 3 adapters per package.



Armour Grip Protective Sleeves

for plastic fiber optic cables with M3, M4, or M6 threaded optic heads. 1 m length.



Model No.	Description
KM3-1.0	for plastic fiber optic cables with M3 threaded optic heads.
KM4-1.0	for plastic fiber optic cables with M4 threaded optic heads.
KM6-1.0	for plastic fiber optic cables with M6 threaded optic heads.

KL-CUT

Plastic fiber optic cable cutter.



Accessories for Glass Fiber Optic Cables

FE-FZ-L3

Wide angle lens accessory for use with 5/16" threaded end tips. For glass thru-beam pairs only. Sold individually. To complete a thru-beam pair, two units are required.

FE-FZ-L4

High power lens accessory for use with 5/16" threaded end tips. For glass thru-beam pairs only. Sold individually. To complete a thru-beam pair, two units are required.

