

P... Series



- For protecting transmitters, receivers from extreme heat

Summary





A fiber-optic cable extension is needed to protect transmitters, receivers with an M12 connector from intense heat.

All cables are available in custom lengths. Pantron offers a variety of sensing end tips for fiber optic cables. To create the fiber optic cable that is perfect for your application, please use the table found on the following page. When ordering, please specify the cable type, length, temperature rating, sheathing, fiber bundle size, and one of the tips.

Technical Data

Construction	Borosilicate optical glass fiber, optical grade epoxy, stainless steel and brass end tips, sheathing of interlocking stainless steel type (302) or PVC with monocoil steel reinforcement
Operating temperatures	Stainless steel sheathing -50°F to +525°F PVC Monocoil reinforced -40°F to +220°F *Special assemblies with stainless steel sheathing and end tips -220°F to +750°F
Length	Standard length 36 inches. Special lengths available shorter or longer, up to 20 feet max.
Bend radius	Inner cable radius must be 1 inch or greater with stainless steel sheathed cables, and 0.5 inches or greater with PVC monocoil sheathed cables.
Pull force	Able to withstand up to 15lbs. Of force from a 0 to 70 degree angle up to 2 minutes along the axis of the fiber.
Tolerances	Implied dimension tolerances on drawings unless otherwise specified. .xxx = +/- .005 .xx = +/- .015 .x = +/- .1 Tolerance on overall cable length is +/- .25 inches per foot

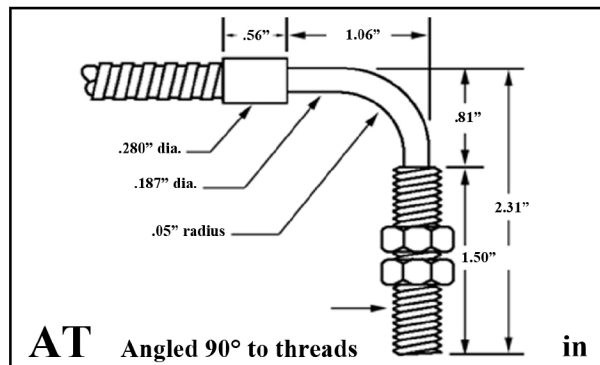
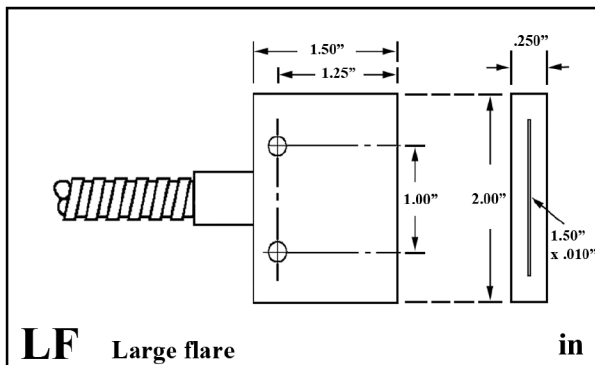
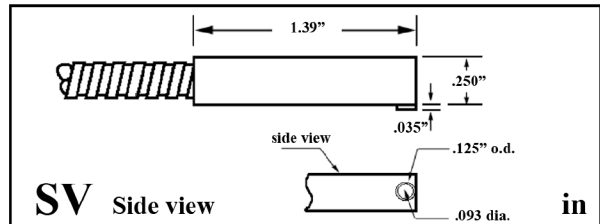
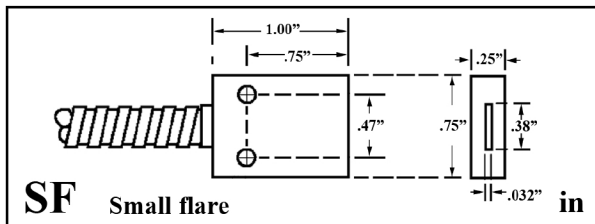
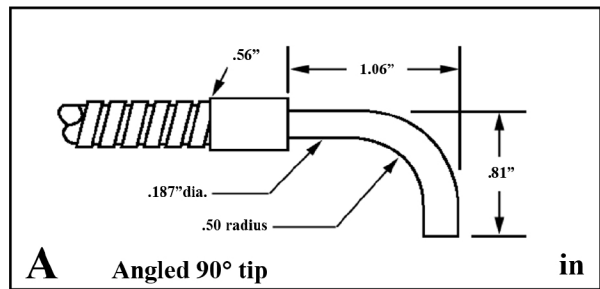
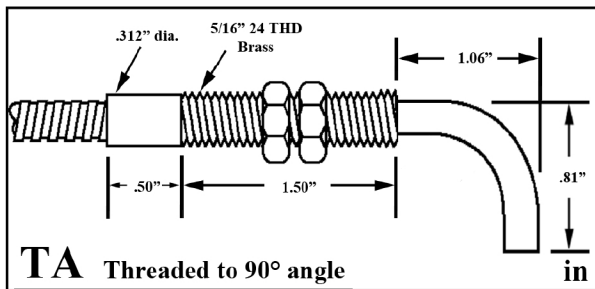
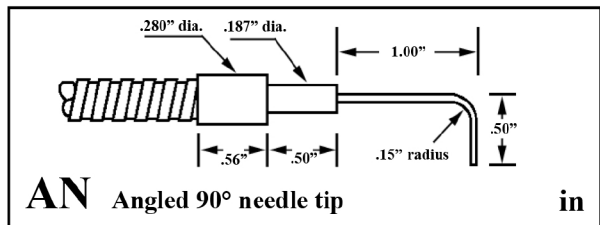
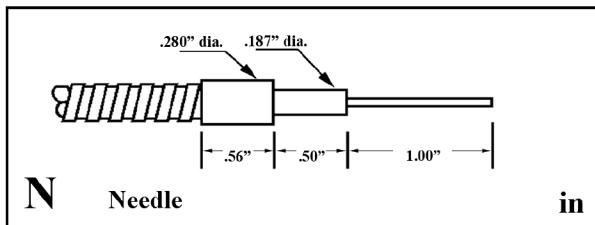
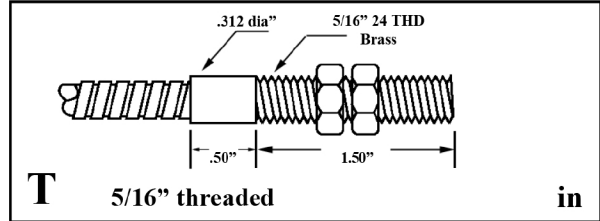
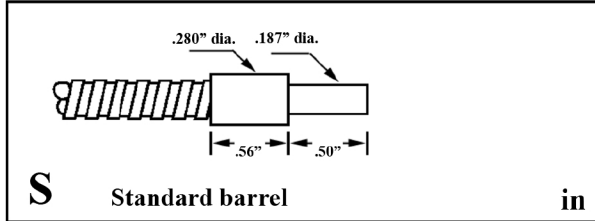
Cable Types Available

Picture	Cable Type	Sheathing
	Straight (Connects to single photo eye)	PVC
	Bifurcated (Connects to two photo eyes)	PVC
	Straight (Connects to single photo eye)	Stainless steel
	Bifurcated (Connects to two photo eyes)	Stainless Steel

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Cable Tips Available

Sensing End Tips



PANTRON FIBER-OPTIC CABLES - ORDERING GUIDE



Example Part Number:	P	I	AT	0.156	m/ft	HT	P
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Pantron fiber-optic cable: Standard build includes stainless steel sheathing (-50°F-+525°F) and M-12 female connector. For connection to Pantron M-12, threaded, photoeyes.

Cable type:	Sensing tip:	Fiber Bundle Size:	Cable length:	High Temperature	Sheathing:
B - Bi-furcated	A - Angled 90°	.028	Specify cable length in inches (Lengths in meters are special order)	HT - High Temp to 750°F (Optional)	(Standard: Stainless steel unless otherwise specified)
I - Individual	AN - Angled 90° needle	.046			P - PVC (Optional)
	AT - Threaded to 90° angle	.062			
	LF - Large flare	.093			
	N - Needle	.125			
	S - Standard barrel	.156			
	SF - Small flare				
	SV - Side view				
	T - 5/16" threaded				
TA - Angled 90° to threads					

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