

QUARTZ FIBER OPTICS

There is one grade of Silica clad and three grades of polymer clad silica (PCS) fibers that are manufactured, which include industrial grade (IUV), optical grade (UV) and extended IR grade for ultraviolet applications. These various grades of quartz can be used on applications including UV curing, UV microscopy, spectrophotometric studies, and photochemical analysis. At a low cost the industrial grade IUV quartz will show some fluorescents at 254nm and darken in gamma or X-ray environments. The optical grade UV quartz is virtually free of secondary fluorescence at 254nm and exhibits no discoloration under X-ray, gamma, or short UV radiation. The extended IR quartz consists of a fused silica core and a siloxane polymer cladding material allowing it to be free of the water absorption dip at 1400nm. All the quartz fibers are available in both standard and custom configurations. A number of protective, flexible sheathing is offered to support a wide range of applications including PVC covered monocoil and stainless steel. The standard stainless terminations may be altered to provide threaded ends and right angle tips. Special configurations, such as lines, circles and multiple branches are readily available upon customer's request.

Features

- Limitless geometric configurations
- Ideal for both illumination and sensing
- Withstands high temperature environments
- Three grades
 - Industrial grade (IUV)
 - Optical grade (UV)
 - Extended IR grade



DJI Q TYPE QUARTZ LIGHT GUIDES

DJI Light Guide Specifications	
Individual Fiber Diameter:	0.004" (0.1mm)
Acceptance Cone:	25°
Fiber Type:	0.22 N.A.
Fiber Material:	Core: Fused Silica Cladding: Fused Silica
Temp Capabilities:	BXQ & EXQ Guides: -40°F to 500°F BXQH & EXQH Guides: -40°F to 800°F BXQS Guides: -40°F to 2000°F
Spectral Response:	220nm to 2100nm

Part #	Cable Length	End Tip Dia.	Fiber Bundle Dia	Sheathing	Fiber Type
BXQ636	36"	0.187"	0.062"	Stainless Steel	Single
BXQ824	24"				
BXQ836	36"	0.187"	0.125"	Stainless Steel	Single
BXQ860	60"				
BXQ872	72"				
BXQH624	24"	0.187"	0.062"	Stainless Steel	Single
BXQH824	24"	0.187"	0.125"	Stainless Steel	Single
BXQS636	36"	0.187"	0.062"	Stainless Steel	Single
BXQS854	54"				
BXQS860	60"				
BXQS872	72"	0.187"	0.125"	Stainless Steel	Single
BXQS884	84"				
BXQS896	96"				
BXQS424	24"	0.312"	0.25"	Stainless Steel	Single
BXQS436	36"				
EXQ636	36"	0.187"	0.062"	Stainless Steel	Dual
EXQ696	96"				
EXQ836	36"				
EXQ860	60"				
EXQ872	72"				
EXQ884	84"	0.187"	0.125"	Stainless Steel	Dual
EXQ896	96"				
EXQ8108	108"				
EXQ8132	132"				
EXQH8108	108"	0.187"	0.125"	Stainless Steel	Dual



DJI UV TYPE QUARTZ LIGHT GUIDES

DJI Light Guide Specifications	
Individual Fiber Diameter:	0.01" (0.25mm)
Acceptance Cone:	35°
Fiber Type:	0.3 N.A.
Fiber Material:	Core: Fused Silica Cladding: Siloxane Polymer
Temp Capabilities:	BUV & EUV Guides: -40°F to 221°F BXUV & EXUV Guides: -40°F to 347°F
Spectral Response:	220nm to 2200nm

Part #	Cable Length	End Tip Dia.	Fiber Bundle Dia	Sheathing	Fiber Type
BUV612	12"	0.187"	0.062"	PVC Monocoil	Single
BUV624	24"				
BUV636	36"				
BUV648	48"				
BUV660	60"				
BUV672	72"				
BUV696	96"	0.187"	0.125"	PVC Monocoil	Single
BUV806	6"				
BUV809	9"				
BUV810	10"				
BUV812	12"				
BUV824	24"				
BUV836	36"				
BUV848	48"				
BUV860	60"				
BUV872	72"				
BUV874	74"				
BUV884	84"				
BUV896	96"	0.312"	0.25"	PVC Monocoil	Single
BUV412	12"				
BUV416	16"				
BUV424	24"				
BUV436	36"				
BUV460	60"				
BUV472	72"				
BXUV624	24"	0.187"	0.062"	Stainless Steel	Single
BXUV636	36"				
BXUV824	24"	0.187"	0.125"	Stainless Steel	Single
BXUV836	36"				
BXUV860	60"				
BXUV424	24"	0.312"	0.25"	Stainless Steel	Single
BXUV436	36"				
BXUV460	60"				



DJI UV TYPE QUARTZ LIGHT GUIDES

Part #	Cable Length	End Tip Dia.	Fiber Bundle Dia	Sheathing	Fiber Type
EUV624	24"	0.187"	0.062"	PVC Monocoil	Dual
EUV636	36"				
EUV824	24"	0.187"	0.125"	PVC Monocoil	Dual
EUV836	36"				
EUV424	24"	0.312"	0.25"	PVC Monocoil	Dual
EUV436	36"				
EUV460	60"				
EXUV824	24"	0.187"	0.125'	Stainless Steel	Dual
EXUV836	36"				
EXUV872	72"				



DJI IUV TYPE QUARTZ LIGHT GUIDES

DJI Light Guide Specifications	
Individual Fiber Diameter:	0.01" (0.25mm)
Acceptance Cone:	35°
Fiber Type:	0.3 N.A.
Fiber Material:	Core: Fused Silica Cladding: Siloxane Polymer
Temp Capabilities:	BIUV & EIUV Guides: -40°F to 221°F BXIUV Guides: -40°F to 347°F
Spectral Response:	260nm to 2200nm

Part #	Cable Length	End Tip Dia.	Fiber Bundle Dia	Sheathing	Fiber Type
BIUV624	24"	0.187'	0.062"	PVC Monocoil	Single
BIUV636	36"				
BIUV660	60"				
BIUV808	8"	0.187"	0.125"	PVC Monocoil	Single
BIUV824	24"				
BIUV836	36"				
BIUV848	48"				
BIUV860	60"				
BIUV872	72"				
BIUV403	3"	0.312"	0.25"	PVC Monocoil	Single
BIUV424	24"				
BIUV430	30"				
BIUV436	36"				
BIUV448	48"				
BIUV460	60"				
BIUV472	72"				
BIUV479	79"				
BIUV4120	120"				
BXIUV824	24"				
BXIUV836	36"				
BXIUV860	60"				
BXIUV884	84"				
BXIUV424	24"	0.187"	0.125"	Stainless Steel	Single
BXIUV436	36"				
BXIUV448	48"				
BXIUV460	60"				
EIUV624	24"	0.312"	0.25"	PVC Monocoil	Dual
EIUV636	36"				
EIUV824.	24"	0.187"	0.125"	PVC Monocoil	Dual
EUIV424	24"	0.312"	0.25"	PVC Monocoil	Dual
EUIV436	36"				
EIUV448	48"				



DJI IR TYPE QUARTZ LIGHT GUIDES

DJI Light Guide Specifications	
Individual Fiber Diameter:	0.01" (0.25mm)
Acceptance Cone:	35°
Fiber Type:	0.3 N.A.
Fiber Material:	Core: Fused Silica Cladding: Siloxane Polymer
Temp Capabilities:	BIR & EIR Guides: -40°F to 221°F BXIR Guides: -40°F to 347°F
Spectral Response:	300nm to 2700nm

Part #	Cable Length	End Tip Dia.	Fiber Bundle Dia	Sheathing	Fiber Type
BIR624	24"	0.187"	0.062"	PVC Monocoil	Single
BIR636	36"				
BIR672	72"				
BIR824	24"	0.187"	0.125"	PVC Monocoil	Single
BIR836	36"				
BIR848	48"				
BIR878	78"				
BIR424	24"	0.312"	0.25"	PVC Monocoil	Single
BIR448	48"				
BXIR624	24"	0.187"	0.062"	Stainless Steel	Single
BXIR636	36"				
BXIR812	12"	0.187"	0.125"	Stainless Steel	Single
BXIR824	24"				
BXIR836	36"				
BXIR848	48"				
BXIR884	84"				
BXIR8108	108"				
BXIR412	12"	0.312"	0.25"	Stainless Steel	Single
BXIR424	24"				
BXIR460	60"				
EIR812	12"	0.187"	0.125"	PVC Monocoil	Dual
EIR824	24"				
EIR836	36"				
EIR448	48"	0.312"	0.25"	PVC Monocoil	Dual

