



# FIBER OPTIC

CABLE ASSEMBLIES

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# FIBER OPTIC OPTIONS & ACCESSORIES

To enhance performance and adaptability, TechniQuip offers a comprehensive range of fiber optic accessories engineered for precision lighting control.

**Annular Ring Light Guides** provide uniform 360° illumination, delivering consistent, shadowfree lighting for surface and edge inspection.

**Goosenecks and Light Pipes** feature flexible, positionable conduits that direct light exactly where it's needed, ideal for microscopy, metrology, and other high-detail applications.

**Adapters and Cables** ensure seamless integration and compatibility across a variety of illuminators and optical configurations.

For unique requirements, **Custom Solutions** are available. TechniQuip's engineering team collaborates directly with customers to design and manufacture application-specific components, optimizing optical performance and mechanical fit for specialized environments.



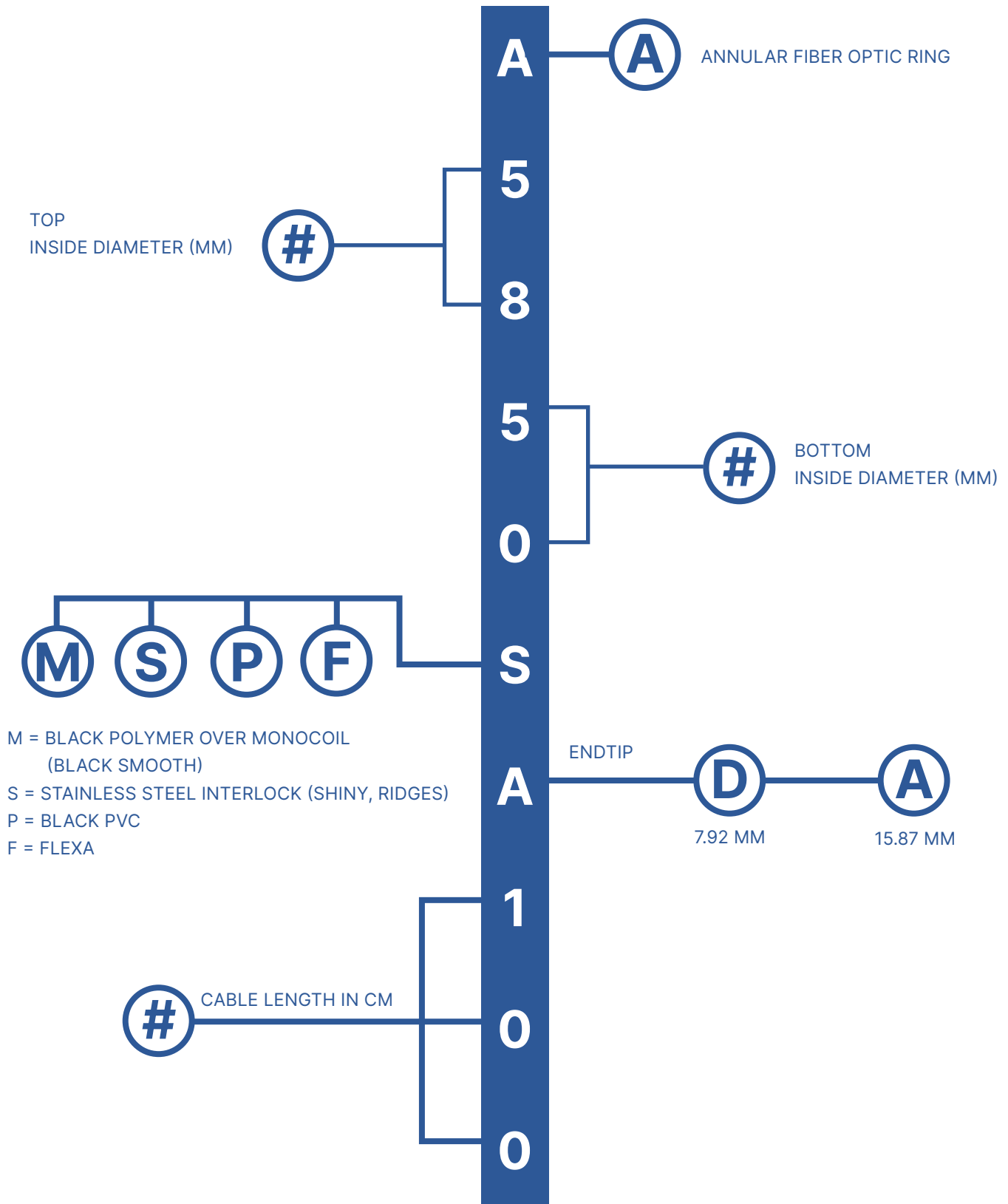
# ANNULARS

## FIBER OPTIC ANNULAR RINGS

TechniQuip's annulars provide 360 degree illumination at a range of focal lengths. Available with inside diameters ranging from 25 - 99 mm. A rugged black anodized aluminum housing contains and protects the Borosilicate fiber. Custom lengths available upon request.



# ANNULAR FIBER RING SELECTION GUIDE



# ANNULAR COMMON PART NUMBERS

DIAMETERS 21MM - 39MM - 1M STANDARD LENGTH (USE 30123177 ADAPTER)

PART NUMBERS	RING TOP I.D.	RING BOTTOM I.D.	INPUT END	FIBER TYPE	BUNDLE DIAMETER	CONE ANGLE	WORKING DISTANCE	STYLE	STANDARD SHEATHING
<b>A3328MD100</b>	33.0	28.0	7.9	Borosilicate Fiber	6.3	20	15	Step	Black Polymer Over Multi-Coil

DIAMETERS 50MM - 66MM - 1M STANDARD LENGTH

PART NUMBERS	RING TOP I.D.	RING BOTTOM I.D.	INPUT END	FIBER TYPE	BUNDLE DIAMETER	CONE ANGLE	WORKING DISTANCE	STYLE	POLARIZER PART NUMBERS	STANDARD SHEATHING
<b>A6050sA100</b>	60.0	50.8	15.9	Borosilicate Fiber	9.4	10	45.0	Step	A66-PLZR-KIT	Stainless Steel Interlock
<b>A6664SA100</b>	66.0	64.0	15.9	Borosilicate Fiber	9.4	20	32.0	Step	A66-PLZR-KIT	Stainless Steel Interlock

DIAMETERS 82 - 99 MM - 1M STANDARD LENGTH

PART NUMBERS	RING TOP I.D.	RING BOTTOM I.D.	INPUT END	FIBER TYPE	BUNDLE DIAMETER	CONE ANGLE	WORKING DISTANCE	STYLE	POLARIZER PART NUMBERS	STANDARD SHEATHING
<b>A8278SA100</b>	82.0	78.0	15.9	Borosilicate Fiber	11.5	32	30.5	Step	A82-PLZR-KIT	Stainless Steel Interlock

Minimum working distance is the distance (mm) from the base of the annular to the point in space where rays from one side first intersect with rays from the other side.

## POLARIZERS

ITEM	POLARIZER / ANALYZER KITS FOR ANNULAR FIBER OPTICS
<b>A60-PLZR-KIT</b>	POLARIZER /ANALYZER KIT FOR USE WITH A6050SA036 FIBER RING
<b>A66-PLZR-KIT</b>	POLARIZER /ANALYZER KIT FOR USE WITH A6664SA036 FIBER RING
<b>A82-PLZR-KIT</b>	POLARIZER /ANALYZER KIT FOR USE WITH A8278SA036 FIBER RING

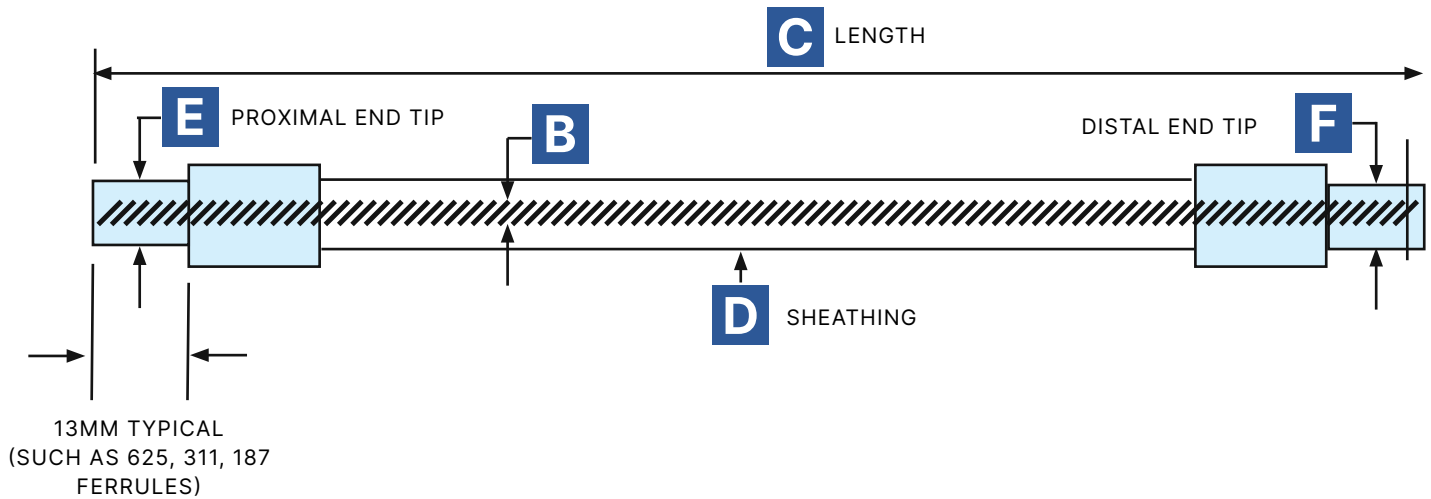
# SINGLE FLEXIBLE FIBER CABLES

## FLEXIBLE FOR YOUR APPLICATION

Interchangeable optical fiber components that ensure compatibility for your configuration.



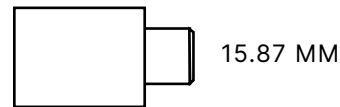
# SINGLE FLEXIBLE FIBER CABLES COMMON FERRULES



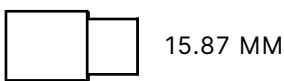
CONTACT THE FACTORY FOR YOUR APPLICATION

FERRULE NO.

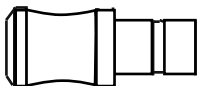
**615** TWO STEP FERRULE  
0.615"/0.714 "(FOSTEC)



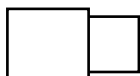
**625** 15.87 MM



**588** 14.9 MM (VOLPI)

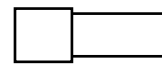


**562** 14.3MM (DOLAN/SETRA)

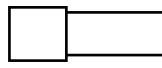


FERRULE NO.

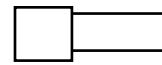
**472** 12MM (FOSTEC)



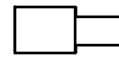
**390** 10MM (FOSTEC)



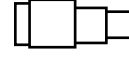
**312** 7.92 MM (FOCUS LENS)



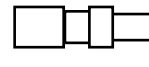
**311** 7.90 MM



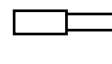
**298** 7.57 MM (ACMI)



**270** 6.86 MM (MITUTOYO)



**187** 4.76 MM



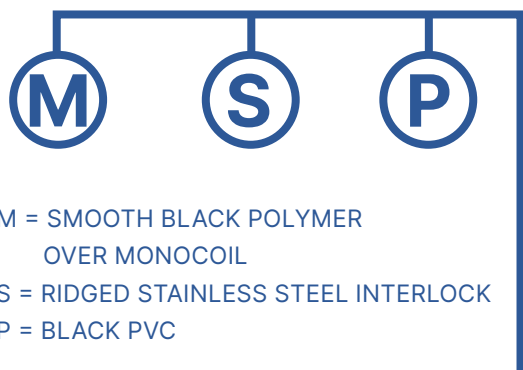
# ANNULAR FIBER RING SELECTION GUIDE

ACTIVE FIBER BUNDLE DIAMETER (MM)

- 13 = 3.17
- 25 = 6.35
- 38 = 9.52
- 50 = 12.70



= CUSTOM FIBER OPTIC ASSEMBLY



- M = SMOOTH BLACK POLYMER OVER MONOCOIL
- S = RIDGED STAINLESS STEEL INTERLOCK
- P = BLACK PVC



BUNDLE LENGTH IN CM

S.S. INTERLOCK

BLACK PVC

BLACK POLYMER OVER MONOCOIL



ALL DIMENSION IN MM

- 4.76
- 6.86 (MITUTOYO)
- 7.57 (ACMI)
- 7.90
- 7.92
- 10 (FOSTEC)
- 12 (FOSTEC)
- 14.3 (DOLAN/SETRA)
- 14.9 (VOLPI)
- 15.87
- 15.87
- 15.87
- 15.6/18.2 (TWO STEP - FOSTEC)

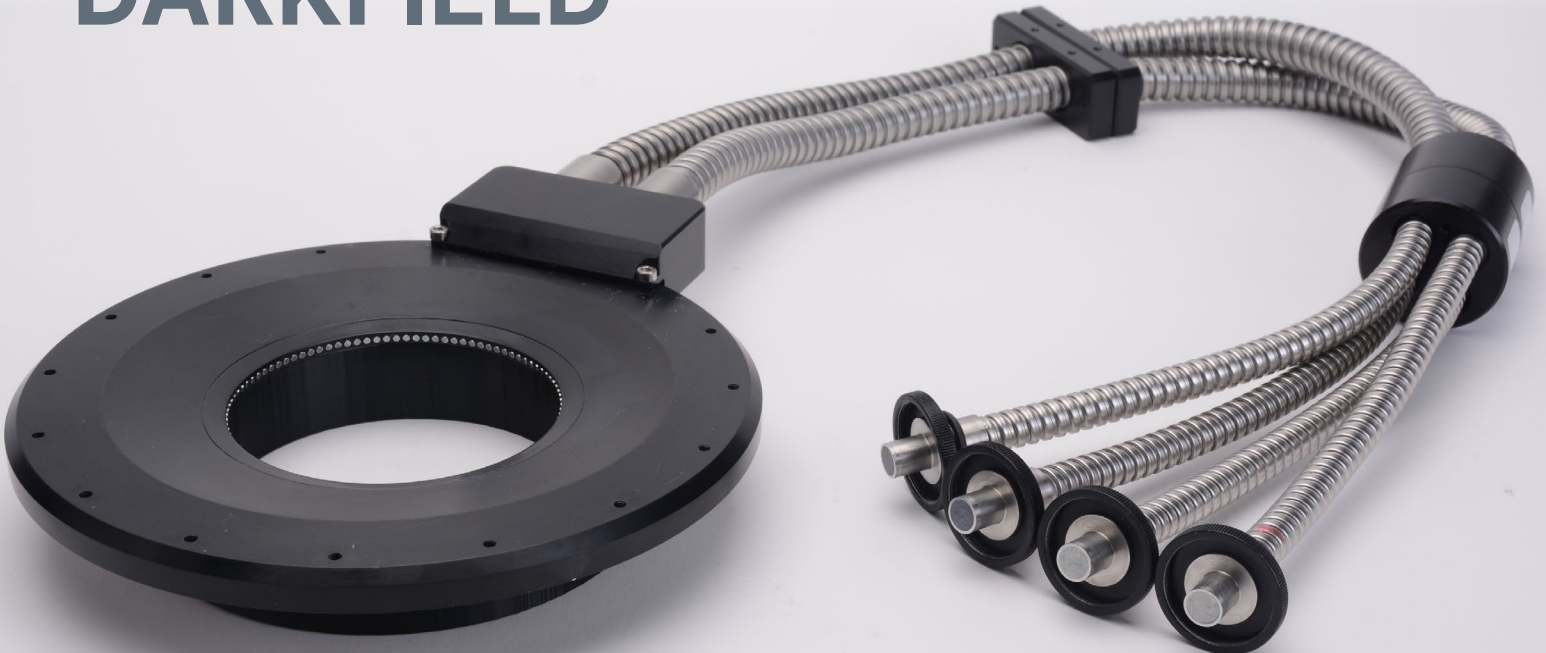
# SPECIALTY FIBER OPTICS GOOSENECKS



We have a range of single and many armed gooseneck fiber designs, with and without secondary focusing optics - contact us with your specific requirements.

# SPECIALTY FIBER OPTICS DARKFIELD

We have extensive experience in darkfield fiber optic systems. Contact us with your application requirements.



# ABOUT TECHNIQUIP



## LIGHTING HELPS MAKE THE IMAGE

If your work relies upon obtaining a precise image then you know the importance of lighting and likely also know that lighting is in the midst of a dramatic renaissance - legacy technologies are giving way to LED. TechniQuip's products are on the forefront of this shift.

## WE SOLVE LIGHTING PROBLEMS

We have completed thousands of projects, so we don't scramble around searching for a good approach, we work to get the job done cleanly, at the highest quality and at an appropriate price —and wouldn't consider any project done until you are 100% satisfied. Our precision-designed lighting systems enable a deep range of scientists, engineers and technology professionals (and their machines) to see better: with better results and productivity.

## CALIFORNIA DESIGN / BUILD CENTER

Our Design / Build Center is thoughtfully equipped with modern design and manufacturing tools, resources, skills, and methods. As such we have been fortunate to serve the lighting needs of the world's best companies and institutions.

### WEBSITE:

[www.techniquip.com](http://www.techniquip.com)

### INDUSTRY:

Electrical/Electronic Manufacturing

### COMPANY TYPE:

Privately Held

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