

ch3 Borosilicate Fiber Optics

02 Goosenecks



Self Supporting Single and Dual Arm Gooseneck Cables

| Part Number | Description For Use With N.P. Adapter 30123177 | Active Fiber Diameter | Distal End Tip (Lens End) | Proximal End Tip |
|-------------|---|-----------------------|---------------------------|------------------|
| SGN-1918-BE | Single Arm Obedient, Black Electroplated Metal Sheathing, 18" length, No Focus Lenses | 0.187" (4.76mm) | 5/16" (7.94mm) | 0.625 inch |
| SGN-1924-BE | Single Arm Obedient, Black Electroplated Metal Sheathing, 24" length, No Focus Lenses | 0.187" (4.76mm) | 5/16" (7.94mm) | 0.625 inch |
| DGN-1918-BE | Dual Arm, Obedient, Black Electroplated Metal Sheathing, 18" length, No Focus Lenses | 0.265" (4.76mm) | 5/16" (7.94mm) | 1.0 inch |
| DGN-1924-BE | Dual Arm, Obedient, Black Electroplated Metal Sheathing, 24" length, No Focus Lenses | 0.265" (4.76mm) | 5/16" (7.94mm) | 1.0 inch |
| 30123400 | Focusing Lens, Black Lens Housing with Locking Thumbscrew (Per lens assembly) | N/A | N/A | 0.625 inch |

NOTE: The SGN and DGN part numbers replace all SPL, DPL and DG part numbers. The FL lens is replaced by the 30123400 lens. Lenses are not included with light guides.

Gooseneck Selection Guide

| | |
|----------|---------------------------------|
| D | Model Name |
| G | SGN = Single Goose Neck |
| N | DGN = Dual Goose neck |
| 1 | Active Fber Diameter |
| 9 | 19 = 0.187" (4.76mm or (3/16")) |
| 1 | Length |
| 8 | 18 = 18" Length |
| 8 | 24 = 24' length |
| B | Cladding |
| E | BE = Black Electroplating |

Goosenecks are Characterized by their Obedient Sheathing Which Makes it Possible to Position the Light At a Range of Angles to the Subject. Goosenecks Provide Point Source Illumination.



30123400 FOCUS LENS

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03 Single Flexible Fiber Optic

Common Cables With Matching End Tips

| Part Number | 1/4" Bundle Diameter Cables Fits Adapter 30123176 | Cable Length | Exterior Sheathing | Input Ferrule | Output Ferrule |
|-------------|--|--------------|--------------------|---------------|----------------|
| SF13036M | Single, Flexible, 1/8" Active Fiber Bundle | 36" | PVC Monocoil | .187 | .187 |
| SF13048M | Single, Flexible, 1/8" Active Fiber Bundle | 48" | PVC Monocoil | .187 | .187 |
| SF13060M | Single, Flexible, 1/8" Active Fiber Bundle | 60" | PVC Monocoil | .187 | .187 |
| SF13072M | Single, Flexible, 1/8" Active Fiber Bundle | 72" | PVC Monocoil | .187 | .187 |

| Part Number | 1/4" Bundle Diameter Cables Fits Adapter 30123176 | Cable Length | Exterior Sheathing | Input Ferrule | Output Ferrule |
|-------------|--|--------------|--------------------|---------------|----------------|
| SF25036M | Single, Flexible, 1/4" Active Fiber Bundle | 36" | PVC Monocoil | .312 | .312 |
| SF25048M | Single, Flexible, 1/4" Active Fiber Bundle | 48" | PVC Monocoil | .312 | .312 |
| SF25060M | Single, Flexible, 1/4" Active Fiber Bundle | 60" | PVC Monocoil | .312 | .312 |
| SF25072M | Single, Flexible, 1/4" Active Fiber Bundle | 72" | PVC Monocoil | .312 | .312 |

| Part Number | 3/8" Bundle Diameter Cables Fits Adapter 30123177 | Cable Length | Exterior Sheathing | Input Ferrule | Output Ferrule |
|-------------|--|--------------|--------------------|---------------|----------------|
| SF38036M | Single, Flexible, 3/8" Active Fiber Bundle | 36" | PVC Monocoil | .625 | .625 |
| SF38048M | Single, Flexible, 3/8" Active Fiber Bundle | 48" | PVC Monocoil | .625 | .625 |
| SF38060M | Single, Flexible, 3/8" Active Fiber Bundle | 60" | PVC Monocoil | .625 | .625 |
| SF38072M | Single, Flexible, 3/8" Active Fiber Bundle | 72" | PVC Monocoil | .625 | .625 |

| Part Number | 1/2" Bundle Diameter Cables Fits Adapter 30123177 | Cable Length | Exterior Sheathing | Input Ferrule | Output Ferrule |
|-------------|--|--------------|--------------------|---------------|----------------|
| SF50036S | Single, Flexible, 1/2" Active Fiber Bundle | 36" | S.S. Interlock | .625 | .625 |
| SF50048S | Single, Flexible, 1/2" Active Fiber Bundle | 48" | S.S. Interlock | .625 | .625 |
| SF50060S | Single, Flexible, 1/2" Active Fiber Bundle | 60" | S.S. Interlock | .625 | .625 |
| SF50072S | Single, Flexible, 1/2" Active Fiber Bundle | 72" | S.S. Interlock | .625 | .625 |

| Series | Bundle Diameter | Standard Length | Custom Cable Lengths |
|--------|-----------------|-----------------|----------------------|
| SF | 1/8" | 36" | Add (Per Foot) |
| SF | 1/4" | 36" | Add (Per Foot) |
| SF | 3/8" | 36" | Add (Per Foot) |
| SF | 1/2" | 36" | Add (Per Foot) |

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Selection Guide

04 Single Flexible Fiber Cables

| | |
|----------|--|
| S | Product Code SF = Single Fiber Optic Cable |
| F | |
| 2 | Active Fiber Bundle Diameter (in) 13 = 1/8" (0.125") 25 = 1/4" (0.250") 38 = 3/8" (0.365") 50 = 1/2" (0.500") |
| 5 | |
| 0 | Bundle Length (Inches) 025 = 24" 084 = 84" 036 = 36" 096 = 96" 048 = 48" 108 = 108" 060 = 60" 120 = 120" 072 = 72" 144 = 144" |
| 3 | |
| 6 | |
| M | Sheathing M= PVC Over Monocoil (Black Smooth) S= Stainless Steel Interlock (Shiny, Ridges) |

**SINGLE FLEXIBLE FIBER
OPTIC CABLES WITH
MATCHING END TIPS.**

**Single Flexible Fiber
Optic Cables are Ideal for
Transporting Light to a Single
Location - Commonly Used
in Photonics, Microscopy,
Machine Vision and related**

Selection of fiber diameter on Single Flexible Fiber Optic Cables with similar end tips determines the input and output ferrule dimensions. (See next page for custom cables)

Input Ferrule Diameters

SF13 Cable = .187"
SF25 Cable = .312"
SF38 Cable = .625"
SF50 Cable = .625"

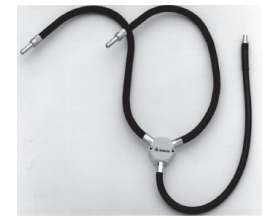
Output Ferrule Diameters

SF13 Cable = .187"
SF25 Cable = .312"
SF38 Cable = .625"
SF50 Cable = .625"



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08 Doubles



"Y" SINGLE TO DUAL

Dual Bundles are Commonly Used in Equipment to Illuminate Two Sides or the Upper and Lower Sides of a Common Cables

| Part Number | Description | Overall Length | Length To Split | Sheathing | Active Fiber Diameter | End Tips |
|-------------|--|----------------|-----------------|--------------------|-----------------------|-----------------|
| DF13036M | Flexible Double Arm and 12" Extension, No Focus Lenses | 36" | 12" | Black PVC Monocoil | 1/8" (3.175mm) | 3/16" (4.763mm) |
| | Flexible Double Arm and 12" Extension, No Focus Lenses | 36" | 12" | BlackPVC Monocoil | 1/4" (6.35mm) | 5/16" (7.93mm) |
| | Flexible Double Arm and 12" Extension, No Focus Lenses | 36" | 12" | BlackPVC Monocoil | 3/8" (9.525mm) | 5/8" (15.875mm) |
| | Flexible Double Arm and 12" Extension, No Focus Lenses | 36" | 12" | BlackPVC Monocoil | 1/2" (12.70mm) | 5/8" (15.875mm) |

- D** Model Name
- F** DF = Dual Arm Flexible with 12" extension
- 2** Active Fiber Bundle Diameter
- 5** 13 = 1/8" (.125")
25 = 1/4" (.250")
38 = 3/8" (.375")
50 = 1/2" (.500")
- 0** Dual Bundle Length (Inches)
- 3** 025 = 24" (Standard)
- 6** 036 = 36"
- M** 048 = 48"
- M** Sheathing
M= PVC Over Monocoil (Black Smooth)

| Series | Bundle Diameter | Standard Length | Custom Cable Lengths |
|--------|-----------------|-----------------|----------------------|
| DF | 1/8" | 36" | Add (Per Foot) |
| DF | 1/4" | 36" | Add (Per Foot) |
| DF | 3/8" | 36" | Add (Per Foot) |
| DF | 1/2" | 36" | Add (Per Foot) |

Call to discuss custom options - Dual fiber optics can be made entirely with flexible sheathing or a combination of flexible and obedient sheathing.