

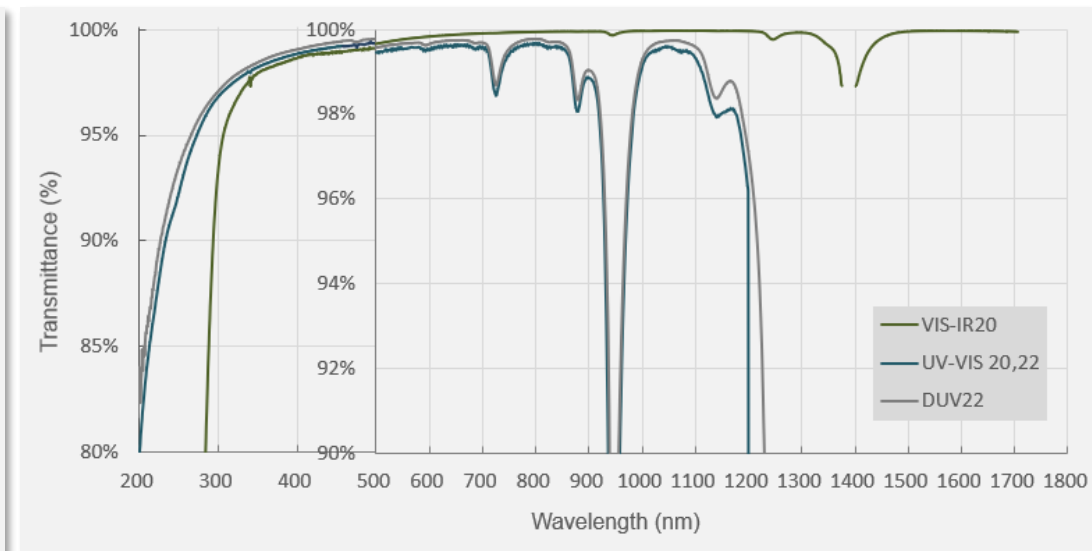
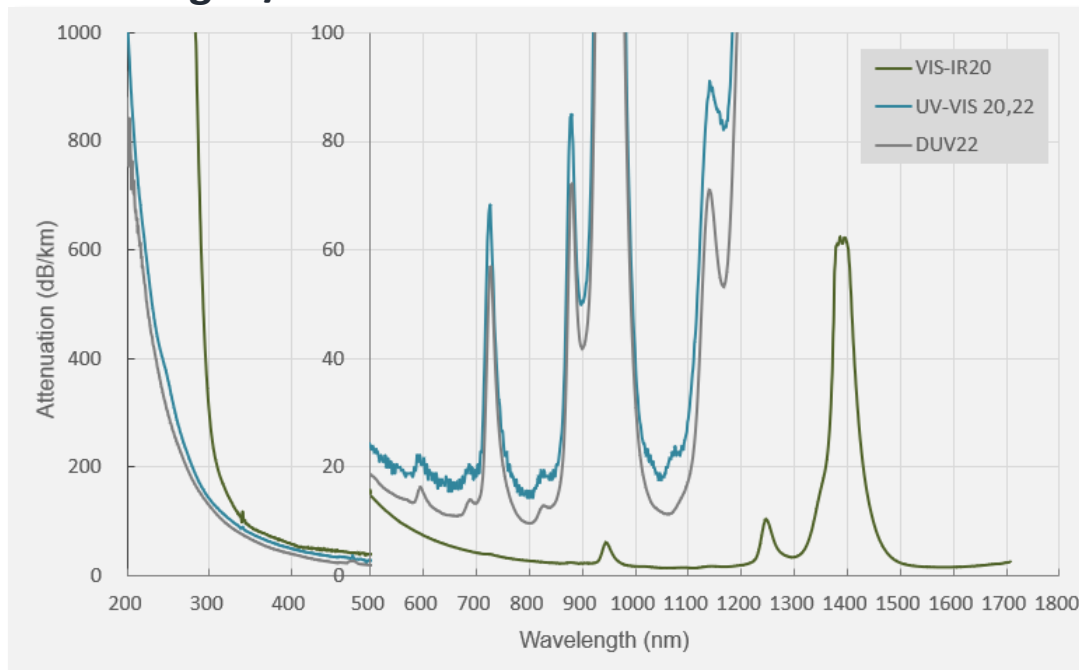
Use of Wavelength Range

Use	VIS-IR	UV-VIS	UV	Resistant to UV
Fiber Type	VIS-IR 20	UV-VIS 20	UV-VIS 22	DUV22
Core/Fiber Diameter [μm]	200/250	230/250	230/250	230/250
NA	0.2	0.2	0.22	0.22
Attenuation(wavelength)	0.01dB/m (850nm)	0.6dB/m (260nm)	0.6dB/m (260nm)	0.6dB/m (260nm)

※Above Core/Fiber Diameter is typical one. Some other size available. Please contact us.

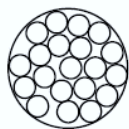
For detail characteristics of 'Resistant to UV', please refer to 'Deep Ultraviolet(DUV) Solarization Resistant Optical Fiber' page.

Wavelength / Attenuation

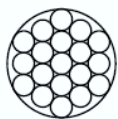


Examples of Fiber Array

Random Fiber Arrangement Examples



Round (random)



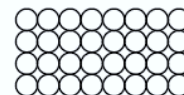
Hexagon (precise)



1 Layer Line



2 Layers Line



Rectangle



Concentric

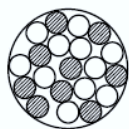


Separated



Bale Structure

Branch Fiber Arrangement Examples



Round Randomly distributed



Round distributed right and left



1 Layer Lined distributed right and left.



Separated Layer



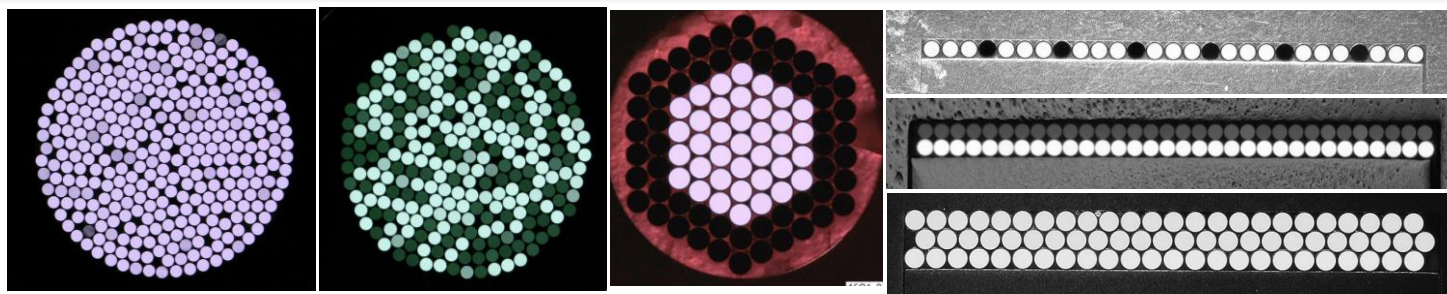
Center and Surroundings



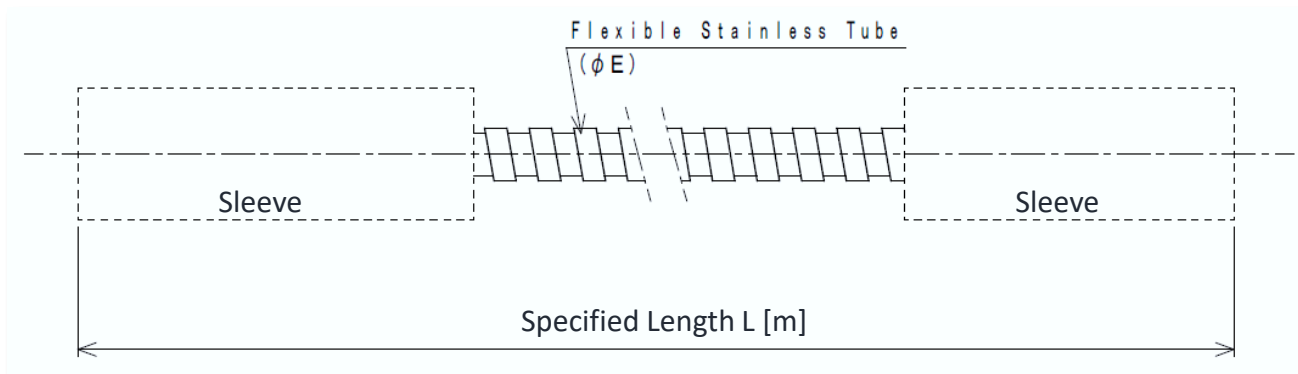
2 Layer distributed right and left.

Image is for illustrative purposes only

- A variety of fiber array available
- Fiber assignment available for branch fiber bundle
- Heat resistant (higher than 200°C) at fiber ends available: MAX 500°C (Round-array only)



Straight Type



Size Table

- in case Fiber Dia. is $\phi 0.25\text{mm}$

Round-array (MSL) on both ends

ϕd	Number of fibers	ϕA	ϕB	ϕE
0.9	10	6	10	6
1.0	12	6	10	6
1.3	20	6	10	6
1.4	24	6	10	6
1.6	32	6	10	6
2.0	48	6	10	8
2.3	64	8	10	8
3.0	116	8	10	8
4.0	204	10	12	10
5.0	320	10	12	10

unit[mm]

Linear-array (KSL) on both ends

$w \times t$	Number of fibers	ϕC	ϕE
0.25×3	12	10	6
0.5×3	24	10	6
0.25×6	24	10	6
0.5×6	48	10	8
0.25×8	32	12	6
0.5×8	64	12	8

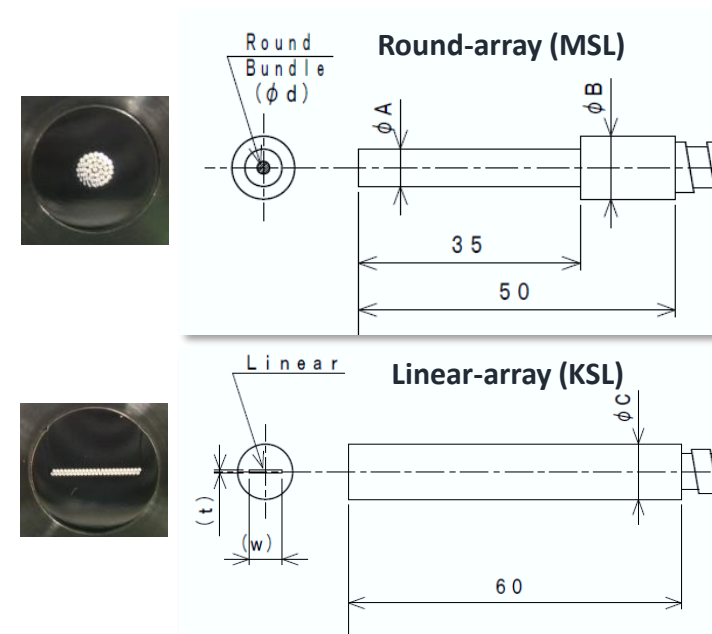
unit[mm]

Round-array (MSL) and Linear-array (KSL)

ϕd	$w \times t$	Number of fibers	ϕA	ϕB	ϕC	ϕE
1.0	0.25×3	12	6	10	10	6
1.4	0.5×3	24	6	10	10	6
1.4	0.25×6	24	6	10	10	6
2.0	0.5×6	48	6	10	10	8
1.6	0.25×8	32	6	10	12	6
2.3	0.5×8	64	8	10	12	8

unit[mm]

Shape of Sleeve

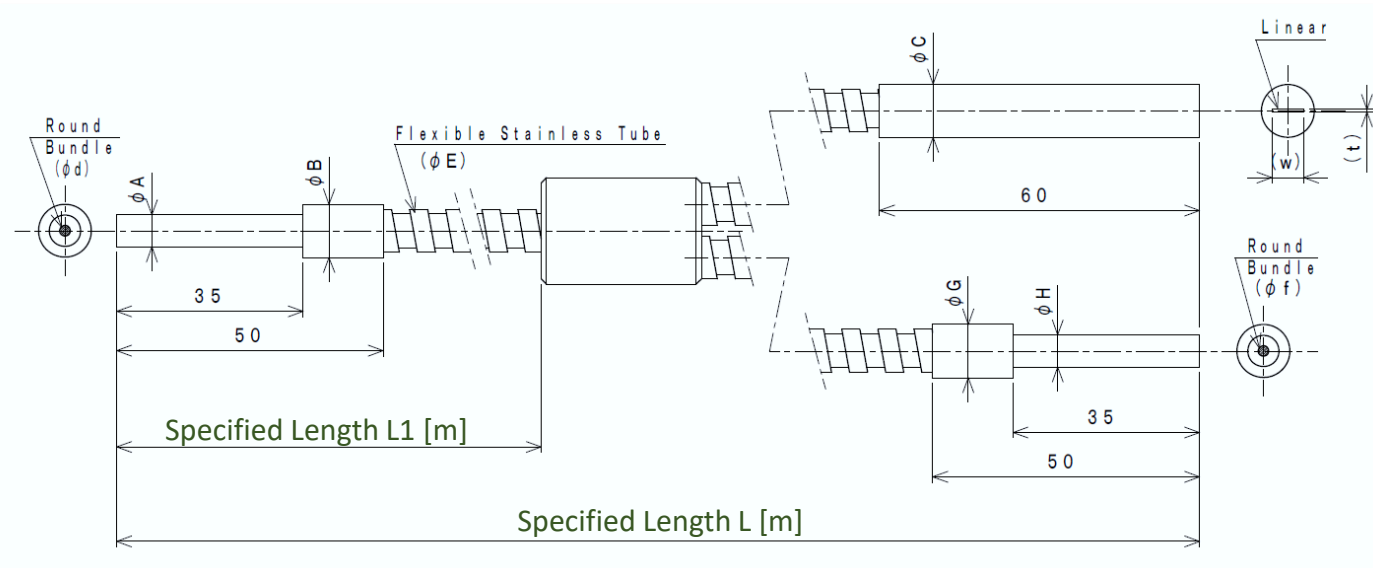


Other shapes are available. Please contact us.

Note

ϕd : Round-array diameter
 ϕA : Round-array side sleeve diameter
 ϕB : Round-array side sleeve neck diameter
 W : Linear-array width
 t : Linear-array height
 ϕC : Linear-array side sleeve diameter
 ϕE : Flexible Stainless tube diameter

Double Branch Type



Other structures are available. Please contact us.

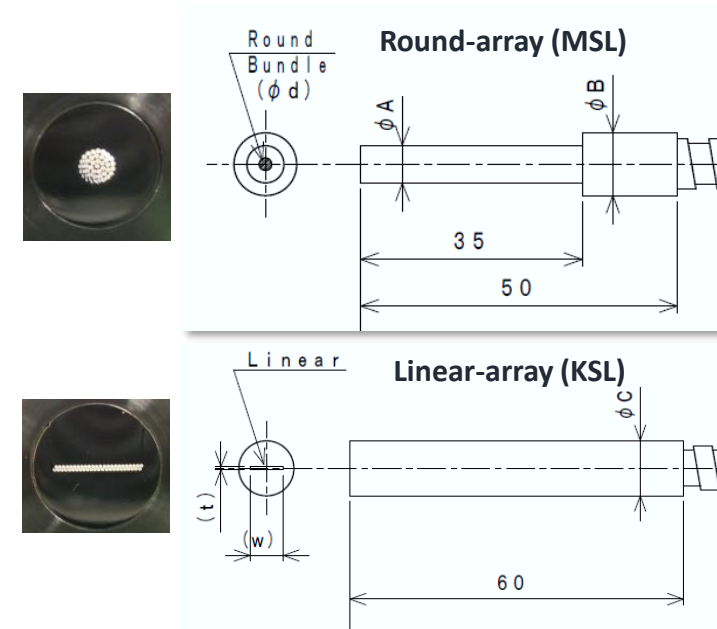
Size Table

- in case Fiber Dia. is $\phi 0.25\text{mm}$

ϕd	ϕf	$(w \times t)$	Number of fibers - assignment	ϕA	ϕB	ϕC	ϕE	ϕG	ϕH
1.4	1.0	0.25×3	24(12+12)	6	10	10	6	6	10
2.0	1.4	0.25×6	48(24+24)	6	10	10	6	6	10
2.3	1.6	0.25×8	64(32+32)	8	10	12	8	6	10

unit[mm]

Shape of Sleeve

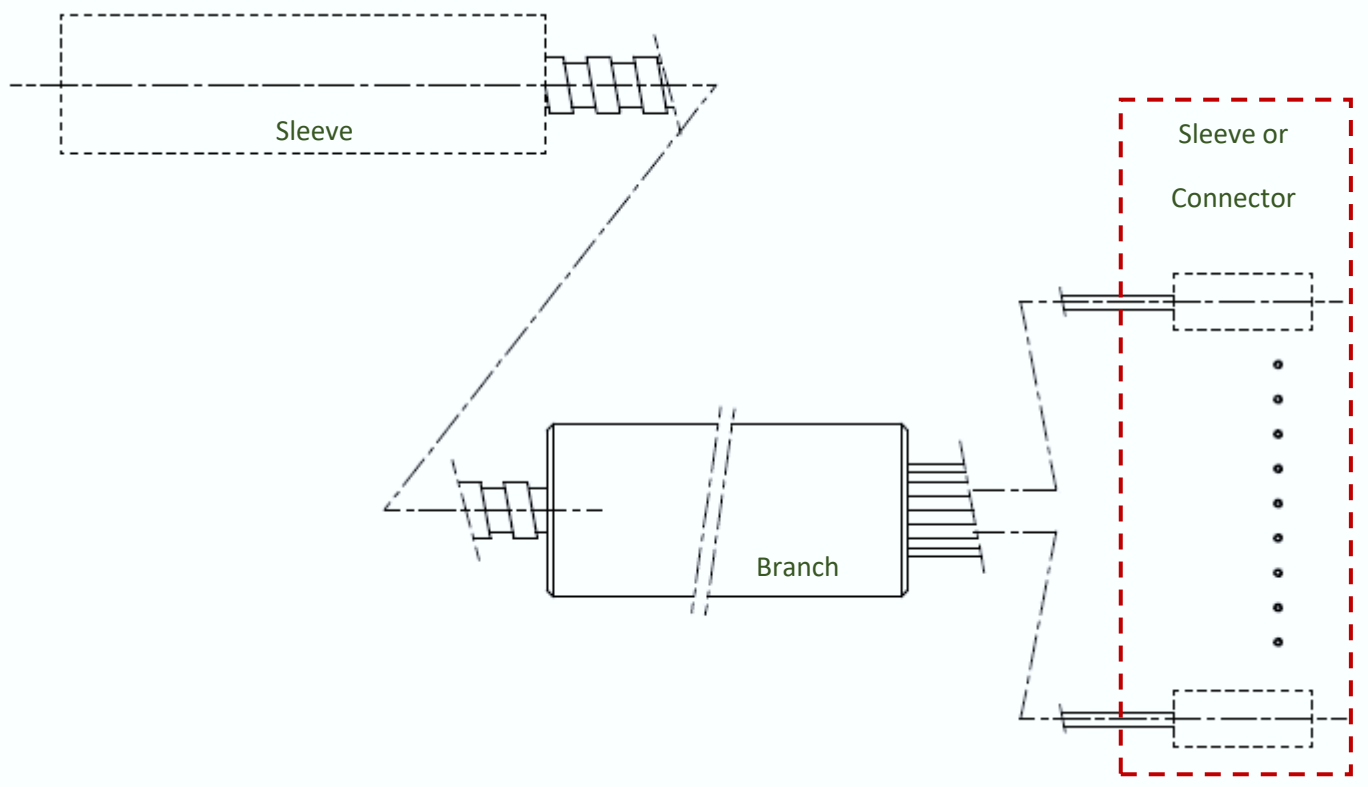


Other shapes are available. Please contact us.

Note

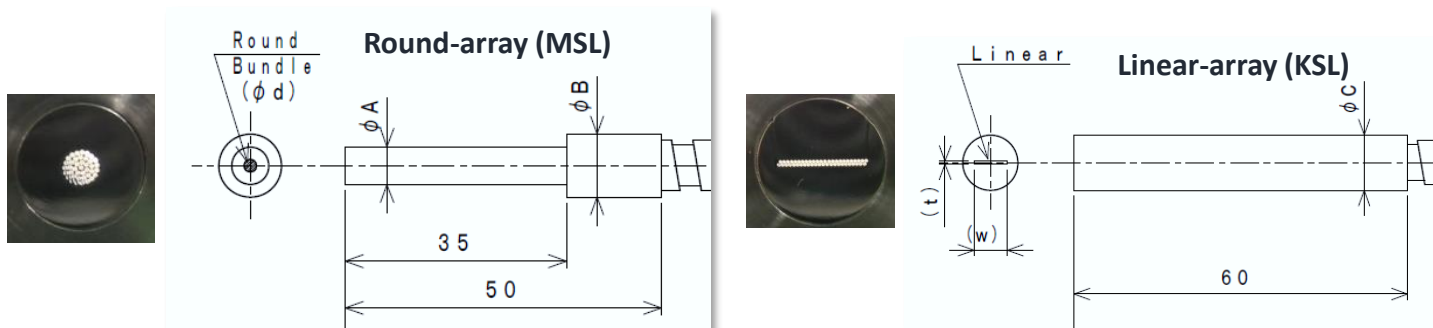
ϕd : Round array fiber diameter
 ϕf : Branch side round array fiber diameter
 ϕA : Round array side sleeve diameter
 ϕB : Round array side sleeve neck diameter
 ϕG : Branch side(round array) sleeve diameter
 ϕH : Branch side(round array) sleeve neck diameter
 w : Linear array fiber width
 t : Linear array fiber height
 ϕC : Linear array side sleeve diameter
 ϕE : Flexible Stainless tube diameter

Multi-Branch Branch Type



Other structures are available. Please contact us.

Shape of Sleeve



Other shapes are available. Please contact us.

Sleeves and Connectors of Branch side



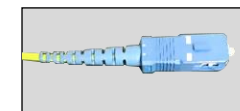
Metal Sleeve



FC



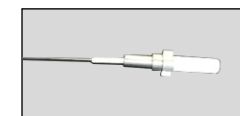
D95P
(FC compatible)



SC



SMA



Ferrule

Other sleeves and connectors are available.

Please contact us.

Fiber Bundle with Airtight Flange



Features

- **Helium leak amount** : 1×10^{-7} Pa·m³ / sec (normal)
- **End structure** : Metal sleeve, Connector (FC, SC, SMA)
Glass window or lens available on the end
- **Tube** : Flexible stainless tube, seamless tube and others
- **Vacuum feedthrough** : Quick coupling such as NW25, vacuum flange such as ICF70 or VG25, and others

Example of use

- SME (Plasma emission measurement)
- spectrum analysis
- uniform light emission
and others

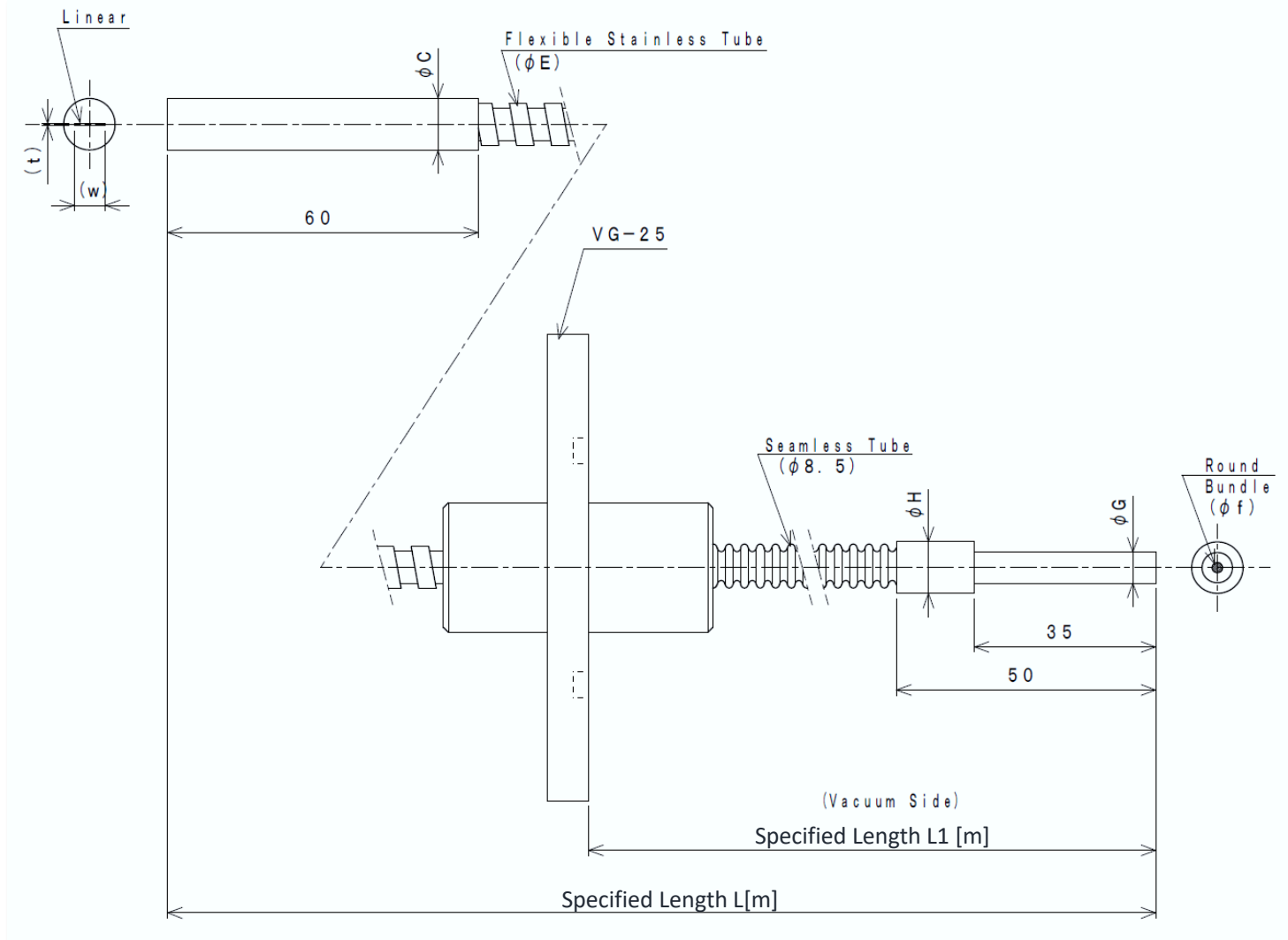
Chemically cleaned fiber bundle can also be available.

Please contact us.



Fiber Bundle with Airtight Flange

- Example



Other shapes are available. Please contact us.

Size Table

- in case Fiber Dia. is $\phi 0.25\text{mm}$

w × t	ϕf	Number of fibers	ϕC	ϕE	ϕG	ϕH
0.25 × 3	1.0	12	10	6	6	10
0.5 × 3	1.4	24	10	6	6	10
0.25 × 6	1.4	24	10	6	6	10
0.5 × 6	2.0	48	10	8	6	10
0.25 × 8	1.6	32	12	6	6	10
0.5 × 8	2.3	64	12	8	8	10

Note

W : Linear array fiber width

t : Linear array fiber height

ϕC : Linear array side sleeve diameter

ϕE : Flexible Stainless tube diameter

ϕf : Branch side round array fiber diameter

ϕG : Branch side(round array) sleeve diameter

ϕH : Branch side(round array) sleeve neck diameter