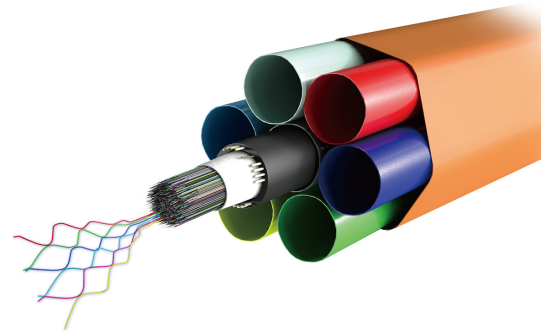


Optical fiber cable

# Ultra High Fiber Density Microduct Cable

Sumitomo Electric's ultra-high fiber density cables offer a revolutionary design suitable for both air-blown and pulled installation demonstrating Sumitomo's world-leading technology.



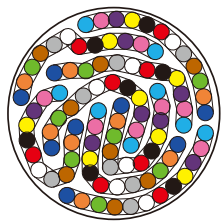
## Features

- »» 200µm fiber and 250µm fiber available
- »» FREEFORM Ribbon™ technology enables space saving, time saving, usability.
  - Small cable diameter
  - Ultra low friction jacket
  - Light weight
  - Easy fiber identification and access
  - No bending asymmetry
  - Gel-free water blocking for easy cable handling
  - Mass Fusion splicing

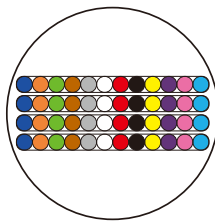
### Pliable form

Transforms to suitable position in high density packing

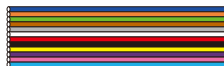
12-fiber FREEFORM Ribbon™      Conventional 12-fiber Ribbon



8 Ribbons (96 Fibers)

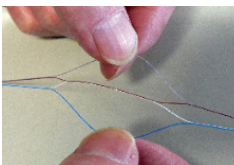


4 Ribbons (48 Fibers)



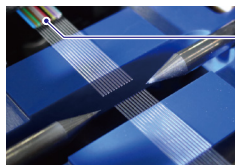
### Easily Split to Single fibers

Connect with single fiber cable easily



### Mass Fusion Splicing

Save fusion splicing time dramatically



### Sumitomo Electric high precision ribbon



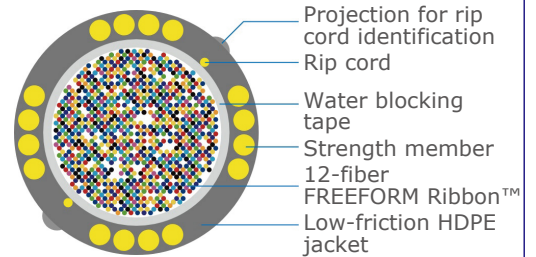
- »» Excellent planarity
- »» Even thickness
- »» Constant fiber pitch

[Bad example]



High reliability for splicing

### SUMITOMO ELECTRIC Ultra High Fiber Density Microduct Cable



### Time Saving (Mass Fusion Splicing)

Single Splicing



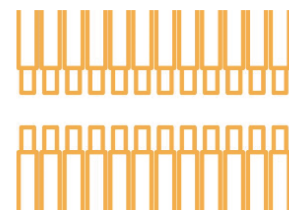
1 fiber × 12 splices

25min



80% Time Reduce

Mass Splicing



12 fiber × 1 splice

5min

\*Includes preparation time

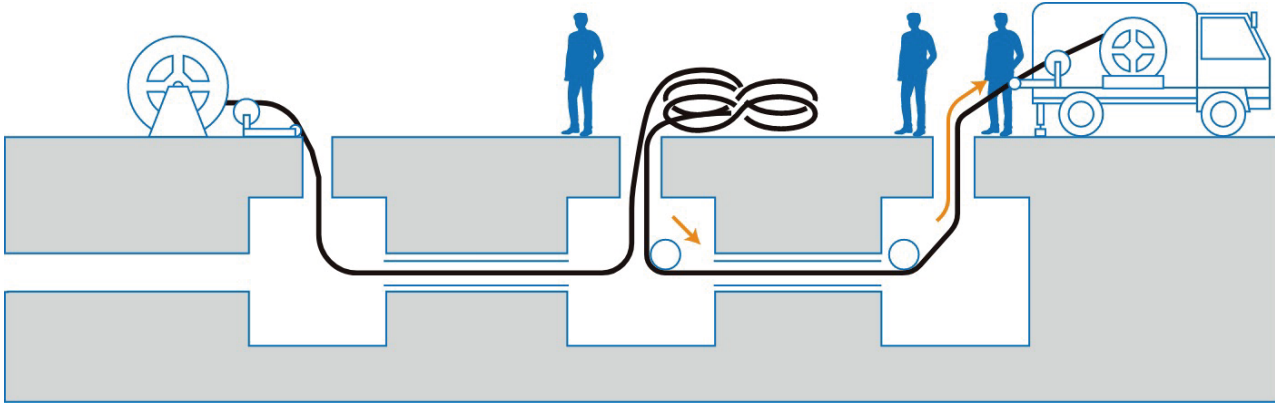
# Pulling/Air-blown dual use

Usually, microduct cables are installed by air-blowing because of the limited maximum tensile load compared to the loose tube cables.

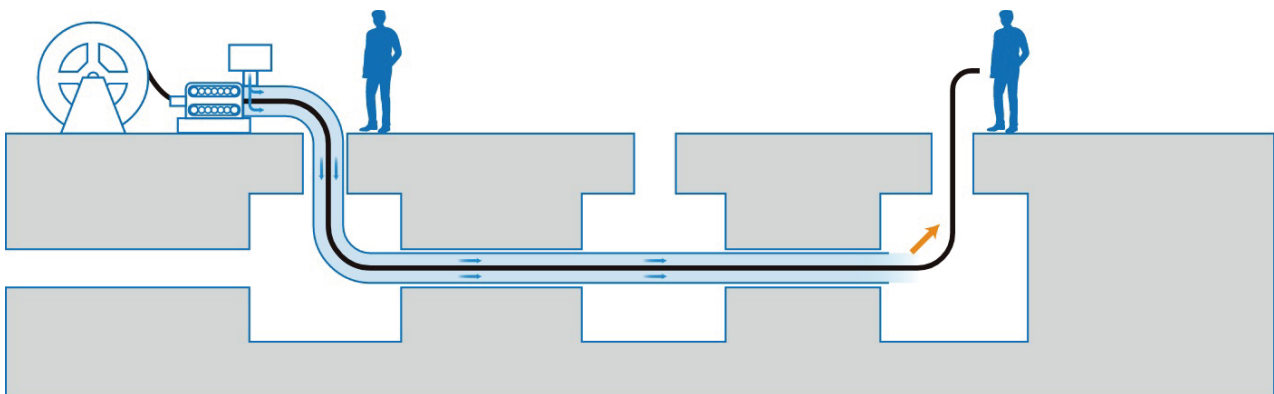
Although, with innovative, lightweight and ultra low friction seath, Sumitomo Electric's microduct cables can be used not only for air-blowing but also for pulling installation.

You can choose either way for the same cable on your needs.

## Pulling installation



## Air-blown installation



## Specification

	Fiber Count (No.)	Cable Diameter (mm)	Min. Duct Size (mm)	Min. Bend Radius after installation	Min. Bend Radius during installation	Tensile strength
200 $\mu$ m	144	7.2	10	150	150	500
	192	7.6	12	150	155	500
	288	9.5	13	150	190	500
	432	10.5	14	150	210	500
	864	13.5	18	200	270	1000

	Fiber Count (No.)	Cable Diameter (mm)	Min. Duct Size (mm)	Min. Bend Radius after installation	Min. Bend Radius during installation	Tensile strength
250 $\mu$ m	144	8.0	12	150	160	500
	192	8.7	13	150	180	500
	288	10.5	14	150	210	500
	432	12.5	18	150	250	500
	864	14.9	20	300	300	1000