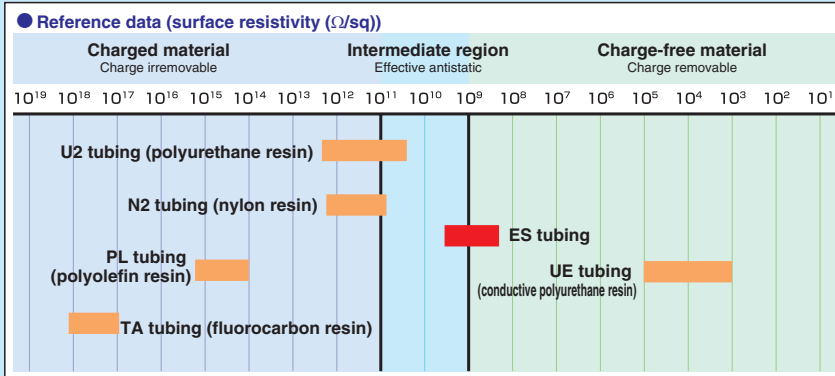


ES

Prevention of dielectric breakdown

Features

- With antistatic performance of surface resistivity $10^{11} \Omega/\text{sq}$ or lower, it does not allow dust to gather.
- There is no bleed-out of conductive agent, and no environmental pollution with particles and other debris.
- Excellent resistance to fluorine-based inert fluids.



Product number table

- Millimeter size type (Group 4)
- Inch size type (Group 1)

Type	Outer diameter × Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)	
					White	WH
ES-4-4×2.5	4×2.5	0.7	15	10	○	○
ES-4-6×4	6×4		25	19	○	○
ES-4-8×6	8×6	0.5	35	26	○	○
ES-4-10×8	10×8		60	33	○	○
ES-4-12×9	12×9	0.6	50	60	○	○
ES-1-1/2	12.70×9.56	0.5		66	○	○

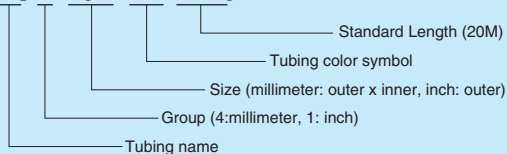
*Please contact us for other sizes.

Standard length

20M

Product number example

ES-4-6×4-WH-20M



*Only 20 m products are available.

Applicable fittings



(*1) Combinatory use of ES tubing and QuickSeal series mixes general and clean type performances. When using them together in a clean environment, be aware of how this could lower the cleanliness level.

Operating fluid, working temperature range

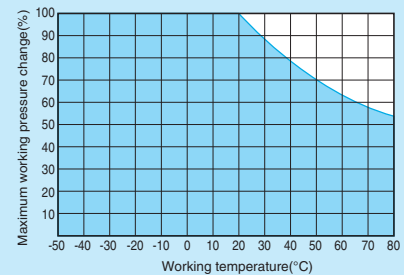
Operating fluid	Working temperature range
Air (clean air)	-50°C~+80°C
Fluorine-based inert fluid	-50°C~+50°C

- ☞ Contact us for various chemical liquids.
- ☞ See "Combination List of Tubing and Fitting" on page 8.

Relation between the working temperature and the maximum working pressure

The maximum working pressure varies with the working temperature (environmental temperature). For use at an abnormal temperature, always check the maximum working pressure change in the graph below and keep the pressure within the indicated range.

⚠ Caution: Using tubes at a pressure outside the range may cause accidents or damage, for which Nitta is not liable.



Handling instructions

⚠ Caution: When water is used as the operating fluid, keep the surge pressure below the maximum working pressure. Also, do not allow the water to freeze.

☞ See page 10 for common Instructions for tubing products.

Reference

Chemical resistance specification tableP.198
Effective sectional areaP.168

Tubing

Clean tubing

Processed tubing

PushOne fitting

QuickSeal fitting

Clean fitting/Chemifit

Bamboo-shoot fitting

Control switch/Detachable series

Jig/Tool/Accessory

Technical information

Reference