FITTINGS

MicroTight® Tubing Sleeves

- ► Manufactured from PEEK polymer
- Pressure rated to 4,000 psi (276 bar)
- ▶ Color-coded for easy inner diameter identification

Upchurch Scientific® MicroTight Tubing Sleeves feature an outer diameter of 0.025" and offer a wide assortment of inner diameters to help facilitate capillary tubing connections with our MicroTight accessories. Because the sleeves are manufactured from PEEK polymer, they carry an upper temperature threshold of 125 °C

To use these sleeves properly, choose a sleeve with an inner diameter 0.001"-0.002" (25–50 μ m) larger than the outer diameter of your capillary tubing. Then, slip the sleeve over your flow path tubing, such that your tubing extends all the way through the sleeve, but not beyond the end of the sleeve. Choose the correct fitting that corresponds with your receiving port, slide it over the sleeved flow path tubing and connect as normal.



NanoTight[™] Tubing Sleeves

- ► Manufactured from FEP fluoropolymer
- Pressure rated to 4,000 psi (276 bar)
- ▶ Outer diameter of 1/16" the most popular size used on most instrumentation

 $Upchurch\,Scientific\,NanoTight\,Tubing\,Sleeves\,are\,manufactured\,using$ FEP fluoropolymer and precisely cut to a 1.6" length. A wide assortment of sleeves is available, ensuring the availability of a NanoTight sleeve for most applications. Many of the sleeves feature a light color tint that can help more easily identify the inner diameter for future orders. Because FEP is the base polymer for these sleeves, there is a maximum recommended continuous operating temperature of 50 °C

Upchurch Scientific NanoTight sleeves were designed primarily for use with the NanoTight fittings, found on page 17 and also work well with the Super Flangeless™ fittings for 1/16" OD tubing on pages 21. For tubing sleeves that can be used effectively with stainless steel fittings and at higher temperatures, consider using the Upchurch Scientific PEEK Tubing Sleeves, found on the next page.

	Part No.	ID	For Tubing OD Size	Color	Qty.
	MICROTIC	GHT PEEK TUBING	SLEEVES AND KITS,	0.025" OD	
*	F-180x	125 μm (0.005")	70–110 μm	Red	10-pk
	F-181x	180 μm (0.007")	125–165 μm	Yellow	10-pk
	F-182x	230 μm (0.009")	175–215 μm	Natural	10-pk
	F-183x	280 μm (0.011")	225–265 μm	Blue	10-pk
	F-184x	330 µm (0.013")	275–315 μm	Orange	10-pk
	F-185x	395 µm (0.0155")	340–380 μm	Green	10-pk
	F-186x	455 μm (0.018")	400–440 μm	Black	10-pk
	F-187x	535 μm (0.021")	480–520 μm	Natural	10-pk
	F-188x	152 µm (0.006")	95–135 μm	Purple	10-pk
	1328	MicroTight Tubing Sleeve Kit contains (6) each of the sleeve sizes listed above			
	1356	MicroTight Connector	Kit		

Kit contains: a 10-pack of each MicroTight Tubing Sleeve (F-180–F-187); (2) P-770 MicroTight Adapters; and (2) MicroTight P-720 Unions

	NAMOTIC	GHT FEP TUBING SI	EEVES 1/16" OD		
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	F-237x	125 μm (0.005")	70–110 μm	Red	10-pk
*	F-238x	180 μm (0.007")	125–165 μm	Yellow	10-pk
	F-239x	215 µm (0.0085")	160–200 μm	Natural	10-pk
	F-240x	280 μm (0.011")	225–265 μm	Blue	10-pk
	F-241x	330 µm (0.013")	275–315 μm	Orange	10-pk
	F-242x	395 μm (0.0155")	340–380 µm	Green	10-pk
	F-243x	455 µm (0.018")	400–440 μm	Black	10-pk
	F-244x	535 μm (0.021")	480–520 μm	Natural	10-pk
	F-245x	610 µm (0.024")	555–595 μm	Red	10-pk
	F-246x	685 μm (0.027")	630–670 μm	Yellow	10-pk
	F-247x	840 µm (0.033")	785–825 μm	Green	10-pk
	F-252x	1.07 mm (0.042")	1 mm	Purple	10-pk

APPLICATION NOTE

Why use Sleeves?

Because most capillary tubing connections are made into coned receiving ports, where the port is not designed to be used with capillary tubing directly, special care must be used to ensure a good connection. While custom ferrules can help make these connections, they only offer a fixed-length nose — and because most tubing pockets will vary slightly in length, this can lead to leaking or dead volume

To help save overall expense while maintaining a concentric connection with minimal dead volume, IDEX Health & Science recommends the use of sleeves. Because sleeves are not permanently attached to a ferrule, they can easily adapt to varying tubing pocket depths. Additionally, because they are manufactured using Upchurch Scientific extruded polymer tubing, you are assured of the concentricity of the resultant connection

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