

Plastic tubing, inches PUN-H

**FESTO**



## Characteristics

### At a glance

Flexible and hydrolysis-resistant tubing with standard O.D. in various colours.

- Polyurethane
- Highly resistant to microbes and hydrolysis
- Suitable for energy chains
- Operating medium: compressed air, vacuum, water

### Additional documents

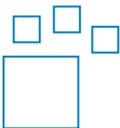
Link [pun-h-inch](#)



The additional document OD-TUBING-NPT-ADD contains further information on tubing/fitting combinations, assembly instructions and measuring procedures.

### Ordering data - modular system

Link [pun-h-inch](#)



Configurable product

This product and all its product options can be ordered online via the configurator.

### Engineering tools

Link [engineering tools](#)



Save time with engineering tools: Smart engineering for the optimal solution. Our goal is to increase your productivity. Our engineering tools play an integral part in achieving this goal. They help you size your system correctly, tap into unimagined productivity reserves and generate additional productivity along the entire value chain. In every phase of your project, from the initial contact to the modernisation of your machine, you will come across a number of different tools that will be of use to you.

- Flow rate calculation: Determine the nominal flow rate by entering parameters such as input pressure, output pressure, tube length and inside diameter.
- Media resistance: Evaluate the resistance of different material types and tubing from Festo to different chemicals and media.

### Alternative material characteristic

[H] Hydrolysis-resistant

Hydrolysis-resistant and suitable for water applications.

### Tubing outside diameter

For standard O.D. tubing, the outside diameter of the tube and the wall thickness are given as the tube size.

### Packaging unit [ft]

- In some cases, available in longer lengths on a reel.

## Type code

001	Series
<b>PUN</b>	Plastic tubing, polyurethane
002	Alternative material characteristic
<b>H</b>	Hydrolysis-resistant
003	Tubing outside diameter
<b>1/8</b>	1/8"
<b>5/32</b>	5/32"
<b>3/16</b>	3/16"
<b>1/4</b>	1/4"
<b>5/16</b>	5/16"
<b>3/8</b>	3/8"
<b>1/2</b>	1/2"
<b>5/8</b>	5/8"

004	Colour
<b>BL</b>	Blue
<b>BR</b>	Brown
<b>GE</b>	Yellow
<b>GN</b>	Green
<b>NT</b>	Natural
<b>RT</b>	Red
<b>SI</b>	Silver
<b>SW</b>	Black
<b>TBL</b>	Translucent blue
<b>TGE</b>	Translucent yellow
<b>TGN</b>	Translucent green
<b>TRT</b>	Translucent red
<b>TSW</b>	Translucent black
<b>WS</b>	White

005	Packaging unit [ft]
<b>150</b>	150 ft
<b>500</b>	500 ft
<b>1000</b>	1000 ft

006	Packaging
<b>CB</b>	Cardboard box
<b>HA</b>	Reel

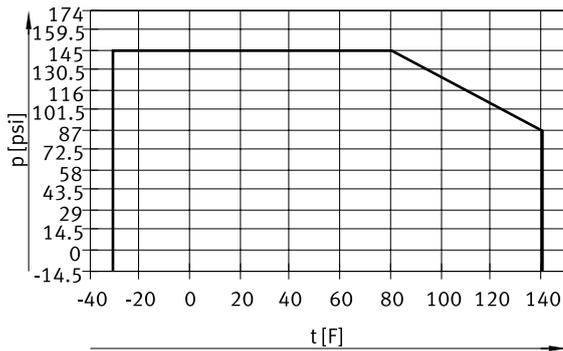
## Datasheet

### Operating and environmental conditions

Pneumatic connection	For push-in connector O.D. 4 mm For push-in connector outside diameter of 5/32"	For push-in connector outside diameter of 1/8"	For push-in connector outside diameter of 3/16"	For push-in connector O.D. 1/4"	For push-in connector O.D. 8 mm For push-in connector outside diameter of 5/16"	For push-in connector O.D 3/8"	For push-in connector O.D 1/2"	For push-in connector outside diameter of 5/8"
Flow-relevant bending radius	0.052 Feet	0.039 Feet	0.069 Feet	0.085 Feet	0.121 ... 0.123 Feet	0.171 Feet	0.204 Feet	0.288 Feet
Min. bending radius	0.02 Feet		0.025 Feet	0.032 ... 0.046 Feet	0.065 ... 0.066 Feet	0.081 ... 0.082 Feet	0.075 Feet	0.125 Feet
Temperature-dependent operating pressure	-14.402 ... 144.994 psi							
Note on operating pressure	Water: temperature-dependent operating pressure, see diagram, max. 0.3 MPa at 0 - 60°C							
Operating medium	Compressed air to ISO 8573-1:2010 [7:::] Water (liquid, ice-free)							
Suitable for use with food <sup>1)</sup>	See supplementary material information							
Ambient temperature	-31 ... 145.4°F							
Fire test material	UL94 HB							
Tubing characteristics	Suitable for energy chains							

1) More information [www.festo.com/catalogue/pun-h](http://www.festo.com/catalogue/pun-h) → Support/Downloads.

### Operating pressure p as a function of temperature t



### Materials

Shore hardness	D 52 +/- 3
Material tubing	TPE-U (PU)
Instructions on use	TPE-U Ether based
Note on materials	RoHS-compliant
LABS (PWS) conformity <sup>1)</sup>	VDMA24364-B2-L
Suitability for the production of Li-ion batteries <sup>2)</sup>	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Element installed statically, no meaningful evaluation possible according to ISO 14644-1

1) Applies to PUN-H with O.D. 3 ... 16 mm and PUN-H-DUO

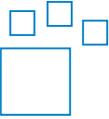
2) Applies to PUN-H with O.D. 3 ... 16 mm and PUN-H-DUO

## Ordering data

Ordering data PUN-H							
	Pneumatic connection	Packaging unit [ft]	Product weight according to length	Colour	Part no.	Type	
	For push-in connector O.D. 4 mm, For push-in connector outside diameter of 5/32"	150 ft	0.09 oz/ft	Blue	567946	PUN-H-5/32-BL-150-CB	
				Brown	567994	PUN-H-5/32-BR-150-CB	
				Natural	567962	PUN-H-5/32-NT-150-CB	
				Black	567954	PUN-H-5/32-SW-150-CB	
					568017	PUN-H-5/32-SW-500-HA	
	For push-in connector O.D. 8 mm, For push-in connector outside diameter of 5/16"	150 ft	0.31 oz/ft	Blue	567949	PUN-H-5/16-BL-150-CB	
				Brown	567997	PUN-H-5/16-BR-150-CB	
				Natural	567965	PUN-H-5/16-NT-150-CB	
				Black	567957	PUN-H-5/16-SW-150-CB	
		500 ft	Natural	8003127	PUN-H-5/16-NT-500-HA		
			Silver	568011	PUN-H-5/16-SI-500-HA		
			Blue	568022	PUN-H-5/16-BL-1000-HA		
	1000 ft	Black	568024	PUN-H-5/16-SW-1000-HA			
	For push-in connector outside diameter of 1/8"	150 ft	0.06 oz/ft	Blue	567945	PUN-H-1/8-BL-150-CB	
				Brown	567993	PUN-H-1/8-BR-150-CB	
				Green	567977	PUN-H-1/8-GN-150-CB	
				Natural	567961	PUN-H-1/8-NT-150-CB	
				Black	567953	PUN-H-1/8-SW-150-CB	
				Silver	567937	PUN-H-1/8-SI-150-CB	
				0.13 oz/ft	Blue	567947	PUN-H-3/16-BL-150-CB
					Yellow	567971	PUN-H-3/16-GE-150-CB
					Green	567979	PUN-H-3/16-GN-150-CB
					Natural	567963	PUN-H-3/16-NT-150-CB
	Black	567955	PUN-H-3/16-SW-150-CB				
	For push-in connector O.D. 1/4"	150 ft	0.23 oz/ft	Translucent blue	8203970	PUN-H-1/4-TBL-150-CB	
				Translucent yellow	8203974	PUN-H-1/4-TGE-150-CB	
				Translucent green	8203973	PUN-H-1/4-TGN-150-CB	
				Translucent red	8203972	PUN-H-1/4-TRT-150-CB	
				Translucent black	8203971	PUN-H-1/4-TSW-150-CB	
				Blue	567948	PUN-H-1/4-BL-150-CB	
Yellow				567972	PUN-H-1/4-GE-150-CB		
Green				567980	PUN-H-1/4-GN-150-CB		
Natural				567964	PUN-H-1/4-NT-150-CB		
Red				567988	PUN-H-1/4-RT-150-CB		
Black				567956	PUN-H-1/4-SW-150-CB		
Silver				567940	PUN-H-1/4-SI-150-CB		
White				568004	PUN-H-1/4-WS-150-CB		
500 ft				Blue	568014	PUN-H-1/4-BL-500-HA	
				Natural	8003126	PUN-H-1/4-NT-500-HA	
		Black	568018	PUN-H-1/4-SW-500-HA			
		Silver	568010	PUN-H-1/4-SI-500-HA			
		1000 ft	Blue	568021	PUN-H-1/4-BL-1000-HA		
			Black	568023	PUN-H-1/4-SW-1000-HA		
		For push-in connector O.D. 3/8"		0.48 oz/ft	Translucent blue	8203975	PUN-H-3/8-TBL-150-CB
					Translucent yellow	8203979	PUN-H-3/8-TGE-150-CB
					Translucent green	8203978	PUN-H-3/8-TGN-150-CB
					Translucent red	8203977	PUN-H-3/8-TRT-150-CB
					Translucent black	8203976	PUN-H-3/8-TSW-150-CB

Ordering data

Ordering data PUN-H						
	Pneumatic connection	Packaging unit [ft]	Product weight according to length	Colour	Part no.	Type
	For push-in connector O.D 3/8"	150 ft	0.48 oz/ft	Blue	567950	PUN-H-3/8-BL-150-CB
				Brown	567998	PUN-H-3/8-BR-150-CB
				Yellow	567974	PUN-H-3/8-GE-150-CB
				Green	567982	PUN-H-3/8-GN-150-CB
				Natural	567966	PUN-H-3/8-NT-150-CB
				Red	567990	PUN-H-3/8-RT-150-CB
				Black	567958	PUN-H-3/8-SW-150-CB
				Silver	567942	PUN-H-3/8-SI-150-CB
				White	568006	PUN-H-3/8-WS-150-CB
	500 ft	Blue	568016	PUN-H-3/8-BL-500-HA		
		Natural	8003128	PUN-H-3/8-NT-500-HA		
		Black	568020	PUN-H-3/8-SW-500-HA		
	For push-in connector O.D 1/2"	150 ft	0.88 oz/ft	Translucent blue	8203980	PUN-H-1/2-TBL-150-CB
				Translucent yellow	8203984	PUN-H-1/2-TGE-150-CB
				Translucent green	8203983	PUN-H-1/2-TGN-150-CB
				Translucent red	8203982	PUN-H-1/2-TRT-150-CB
				Translucent black	8203981	PUN-H-1/2-TSW-150-CB
				Blue	567951	PUN-H-1/2-BL-150-CB
				Yellow	567975	PUN-H-1/2-GE-150-CB
				Green	567983	PUN-H-1/2-GN-150-CB
				Natural	567967	PUN-H-1/2-NT-150-CB
Red				567991	PUN-H-1/2-RT-150-CB	
Black				567959	PUN-H-1/2-SW-150-CB	
Silver				567943	PUN-H-1/2-SI-150-CB	
White	568007	PUN-H-1/2-WS-150-CB				
For push-in connector outside diameter of 5/8"			1.38 oz/ft	Blue	567952	PUN-H-5/8-BL-150-CB
				Brown	568000	PUN-H-5/8-BR-150-CB
				Yellow	567976	PUN-H-5/8-GE-150-CB
				Green	567984	PUN-H-5/8-GN-150-CB
				Red	567992	PUN-H-5/8-RT-150-CB
White	568008	PUN-H-5/8-WS-150-CB				

Ordering data – Modular product system			
	Short type code	Part no.	Type
	PUN-	567446	PUN-U