

PA Nylon Pneumatic Tube for Air Systems and Tools



Product Overview

PA nylon pneumatic tubing provides firm, dimensionally stable compressed-air transmission for machine panels, automation equipment, pneumatic tools, and fixed industrial air-line routing.

Key Features

- PA nylon construction with a firm, stable tube profile.
- Recommended PA12 grade, subject to final material confirmation.
- Metric outside diameters from 4 mm to 16 mm.
- Practical resistance to pressure, abrasion, and moisture.
- Suitable for correctly sized push-in and insert fittings.
- Multiple colors and custom roll lengths available on request.

Technical Specifications

Parameter	Specification
Product Name	PA Nylon Pneumatic Air Hose
Product Series	PA Series
Product Type	Semi-rigid pneumatic air tubing
Material	PA nylon / polyamide
Recommended Grade	PA12, subject to final material confirmation
Working Medium	Compressed air and compatible non-corrosive gases
Working Temperature	-20 degrees C to +80 degrees C
Max. Working Pressure	1.0 MPa / 10 bar at 20 degrees C
Pressure Reference	Allowable pressure decreases as operating temperature increases
Available O.D.	4, 6, 8, 10, 12, and 16 mm
Color Options	Black, natural, and additional colors subject to availability
Standard Packaging	Coiled tubing; roll length should be confirmed before ordering
Compatible Connection	Push-in and insert fittings selected by tube outside diameter
Main Applications	Valves, cylinders, manifolds, machine panels, tools, and automation
Selection Checks	Confirm O.D., I.D., pressure, temperature, bend radius, color, roll length, medium, and fitting compatibility

Model Selection and Dimensions

Recommended Model	O.D.	I.D.	Wall Thickness
PA0425	4 mm	2.5 mm	0.75 mm
PA0403	4 mm	3 mm	0.50 mm
PA0604	6 mm	4 mm	1.00 mm
PA0645	6 mm	4.5 mm	0.75 mm
PA0806	8 mm	6 mm	1.00 mm
PA1075	10 mm	7.5 mm	1.25 mm
PA1209	12 mm	9 mm	1.50 mm
PA1613	16 mm	13 mm	1.50 mm

Custom lengths available.

Applications

- Pneumatic control panels, valves, manifolds, and cylinders.
- Automation, packaging, assembly, and machine-building equipment.
- Fixed air-line routing for pneumatic tools and maintenance circuits.
- Compact routing through machine frames, cabinets, and channels.

Selection Guidance

Confirm outside diameter, inside diameter, working pressure, temperature, material grade, bend radius, color, roll length, medium, quantity, and fitting type before ordering.

Installation Guidance

- Cut the tube end squarely and remove damage or deformation.
- Insert the tube fully into a correctly sized pneumatic fitting.
- Avoid excessive bending, kinking, heat, and chemical exposure.

Safety Notes

- Allowable pressure decreases as operating temperature rises.
- Confirm compatibility before using water or non-air media.
- Replace tubing showing cuts, abrasion, kinks, or deformation.

Contact Information

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