

Polyurethane Pneumatic Tubing

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Pneumatics & Air Tools

Polyurethane pneumatic tubing carries compressed air and fluids in automation and tool lines, flexing and recovering without kinking. Coloured tubing in 4, 6 and 8 mm sizes with push-in fittings builds tidy, traceable air circuits.

Key Features

- Outer diameters 4, 6, 8, 10 mm
- Hard and soft durometer grades
- Colour coding for circuits
- Flexible memory-free recovery
- Working pressures to 10+ bar

Typical Uses in the Workshop

- Wire air circuits between valves and cylinders
- Feed tools with flexible supply lines
- Build pneumatic training rigs
- Colour-code supply and exhaust lines

Safe Operation

1. Cut tubing square with the cutter
2. Push fully into the push-in fitting to the collar
3. Route with gentle bends and supports
4. Check the ends are clean and square
5. Pull back to release from fittings

SAFETY NOTES

- Check tubing rating for the pressure used
- Do not run tubing over hot or sharp edges
- Keep tubing out of foot traffic
- Check fittings seat properly
- Replace cracked or stiff tubing

Maintenance & Consumables

- Cut damaged ends square
- Keep the tubing cutter with the stock
- Sort by colour and diameter
- Check push-in fittings clean
- Replace worn sections

Specification & Buying Notes

Buy polyurethane tube in 4 and 6 mm with a cutter and a box of push-in fittings. Quality tubing is flexible and kink-resistant; cheap PVC hardens and cracks.