

Products

Imperial Size Lldpe Tubing



Part No	OD	ID	COIL LENGTH	MINI BEND RADII
PE-08-BI-0500F-N	1/4"(0.025")	0.170"	500 FT	1.00"
PE-08-BI-1000F-N	1/4"(0.025")	0.170"	500 FT	1.00"
PE-10-CI-0500F-N	5/16"(0.312")	0.187"	500 FT	1.13"
PE-12-EI-0500F-N	3/8"(0.375")	0.250"	500 FT	1.25"
PE-16-GI-0250F-N	1/2"(0.500")	0.375"	500 FT	2.50"

N denotes natural colour. To request other colours please refer to the table below. Popular items are now generally in stock and are available in minimum quantities of 2 coils. Other items may be subject to longer lead times and are available in minimum quantities of 50 coils.

Standard Colours Available:

N=Natural
B=Blue
E=Black
R=Red
W=White

Other special colours available on request:

O=Orange
G=Green
V=Violet
Y=Yellow

Features

- Linear low density polyethylene
- Suitable for cold and intermittent hot water applications
- Broad chemical compatibility
- FDA and NSF certified
- Strong, flexible and robust

- Technical Specification

Technical Specification – LLDPE Tubing

NOTE: This specification refers to LLDPE tubing prefixed PE. Other fittings, valves, tube and ancillary products have their own Technical Specification.

Product Selection and Installation

John Guest fittings and related products are specifically designed and manufactured by John Guest to the Technical Specification set out in the John Guest Product Catalogues. All John Guest fittings and related products should be selected, installed, used and maintained in accordance with these Technical Specifications. It is the customer's/user's responsibility to ensure that John Guest fittings and related products are suitable for their intended applications, are properly installed and maintained and are used in accordance with the Technical Specifications. It is also the customer's/user's responsibility to provide its own customers with all relevant technical information about John Guest products it supplies them. If you have any questions about our technical specifications, please contact us.

For use with chemicals or other potentially aggressive liquids, please refer to our Customer Services Department.

Super Speedfit fittings and related products are not recommended for use with explosive gases, petroleum spirits, and other fuels or for central heating systems.

Working Temperatures and Pressures – LLDPE

Tube OD		Tube ID	Tube OD		Tube ID
1/4"	x	0.170"	1/2"	x	0.375"
5/16"	x	0.187"	8mm	x	6mm
3/8"	x	0.25"	10mm	x	7mm
4mm	x	2.5mm	12mm	x	9mm
6mm	x	4mm	15mm	x	11.5mm
230 psi @ 70°F 15 bar @ 20°C			150 psi @ 70°F 10 bar @ 20°C		
120 psi @ 150°F 8 bar @ 65°C			90 psi @ 150°F 6 bar @ 65°C		

1 Bar = 14.5 psi (approx.)

Maximum Working Temperature 150°F at pressures shown in the chart above. For temperatures above 150°F customers should refer to our Technical Help Desk.

Please note maximum pressure rating for a 'system' depends on the lowest rated component, e.g. most John Guest fittings have a different rating than the tube ratings shown above.

Burst pressures are approximately 3 times the maximum working pressure.

LLDPE is not recommended for mineral oils, gases and fuels or high pressure compressed air / pneumatic systems.

Tube Tolerances

¼" to ½"	+0.001/-0.004"
4mm to 6mm	+0.05/-0.07mm
8mm to 12mm	+0.05/-0.10mm
15mm	+0.10/-0.10mm

Food Quality

All these fittings are produced in Food and Drug Administration (FDA) compliant materials and are therefore recommended for food quality applications.

Chemical Resistance

For use of with chemicals or potentially aggressive liquids, please refer to our Technical Service Department.

NOTE: When using cleaning agents or other potentially aggressive liquids, please ensure compatibility with tubing and fittings.

Tube Inserts

If the tube is used in a warm water system a tube insert is necessary.

Part No.	TSM10N	10mm size
Part No.	TSM1209S	12mm size
Part No.	TSM15N	15mm size

Please note maximum pressure rating for a 'system' depends on the lowest rated component, e.g. most John Guest fittings have a different rating than the tube ratings shown above.

Exposure to Ultraviolet Light

John Guest Black LLDPE tubing is UV stabilised and can be exposed to direct ultraviolet light (e.g. direct sunlight); other colours of John Guest LLDPE tubing are not UV stabilised and cannot be exposed to direct ultraviolet light.

Potable Water Applications

John Guest Ltd LLDPE tubing is suitable for potable cold water applications with a maximum chlorine content of 4 parts per million (4ppm). Heated water above 70°Fand/or pressures above the maximum will significantly reduce its service life. Direct exposure to sunlight will also significantly reduce its useful service. As part of good practice, tubing should be inspected regularly. If there is any evidence of damage, hardening or cracking it should be replaced immediately.

Note: Hot and cold water plumbing systems must comply with local plumbing code for pipe and fittings.

Pneumatics Applications

John Guest LLDPE tube is suitable for pneumatic applications providing pressure is maximum 10 bar @ 20°C (150psi @ 70°F). At elevated temperatures (50°C+) mineral oil will degrade LLDPE tube and, therefore, LLDPE tube used in pneumatic circuits should be periodically checked and replaced if necessary.

Burst pressures are approximately 3 times the maximum working pressure.

Warranty

Whilst we give a warranty against defects in manufacture or materials, it is the responsibility of the specifier to ensure that fittings and related products are suitable for their application. The installation must be carried out correctly in accordance with our recommendations, complying with recognised codes of practice and relevant national standards, and be properly maintained. Please refer to our terms and conditions of sale.

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