



Invention & Innovation
NITTA

NITTA HOSE AND TUBING FOR *Fluid and Air Conveyance*



THE NITTA ADVANTAGE – MORE THAN BELTING

You already know the Nitta name for high-quality belting with superior performance in industrial applications. But did you know Nitta also manufactures a complete line of hose and tubing products with the same customer-focused approach to design, build and support?

Nitta Corporation of America offers low- and high-pressure Linemate thermoplastic hose products. These durable, lightweight hoses are clean and eco-friendly and allow for easy piping due to small O.D. and tight bend radius. Assembly is quick and simple with swage or exclusive push-one "Campucka" couplings. Linemate's high build quality and ease of use minimize downtime: installs are shorter, and systems stay up and running longer.

NCA also offers tubing products for pneumatic and fluid transport applications in inch and metric versions. Available types include polyurethane, nylon, polyolefin, fluorocarbon, and flame-resistant. Fitting options include PushOne, Chemifit (for use in ultrapure applications, such as pharmaceutical or cleanroom), and QuickSeal.

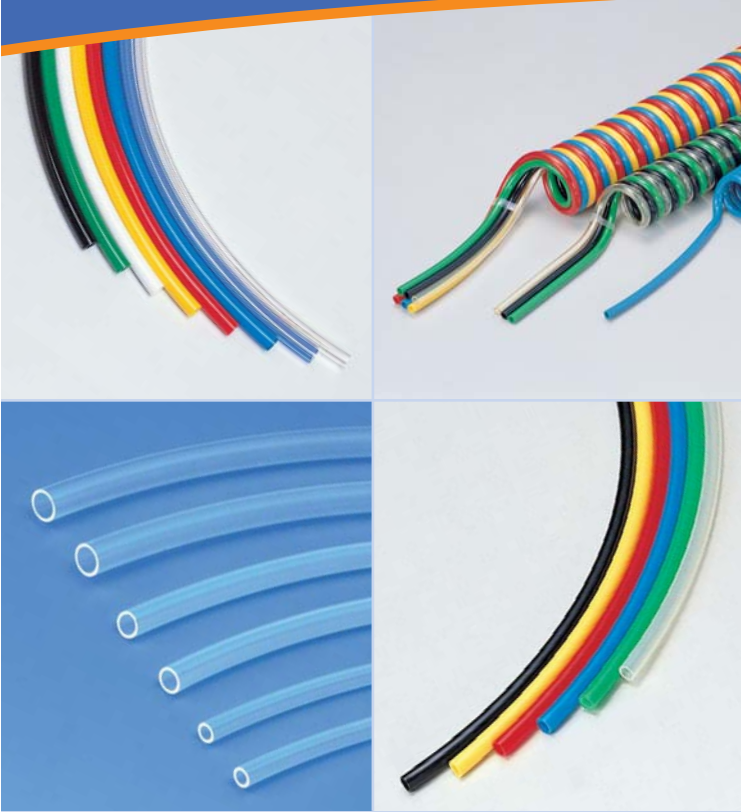
Linemate® THERMOPLASTIC HOSE, COUPLINGS AND ADAPTERS

- Lighter weight – Thermoplastic hoses weigh just one-quarter to one-half the weight of rubber hoses
- Tighter O.D. – Better and easier routing
- Superior UV and ozone resistance
- High durability – Synthetic fiber reinforcement ensures hoses are highly durable against impact pressure and repeated bending. Thermoplastic hoses last up to **four times** longer than rubber in flex applications.
- Higher abrasion resistance – Special polyurethane resin used as cover material provides high abrasion resistance, proven to outlast rubber up to **ten times**
- Nylon tube works with bio-fuels, vegetable oils, hydraulic fluids, and chemicals or additives
- Cover can be blended to meet extreme low temperatures
- Offered in non-conductive for work around power lines, etc.
- Can be made in any color
- Can be bonded together for multiple line use
- Can be assembled in the field without any tools – Easily adjust length on-site with one-touch "CAMPUCKA" couplings ("Campucka" is short for **C**ut, **A**ttend, **M**ark, **P**Ush, **C**heck, **A**ssembly)
- Hose is extruded, which eliminates imperfections and means no harmful contaminants in system. Meets Cleanliness ISO 18/16/13 from time of manufacture. Wire braid and spiral hose, on the other hand, are built on mandrels and have a release agent that collects debris. They need to be cleaned by flushing or shooting a projectile through them, and still are not as clean as TP in most cases. A shot of air, if necessary, will vacate a TP hose.
- When cutting wire braid and spiral, debris is introduced into the tube. Not so with TP hoses: clean cut due to polyester braid, can be done with knife or hand-cutter.
- No smoke or rubber and wire dust generated at cut time
- Many types available, including 100R7, 100R8, and 100R18 (3000psi Working Pressure in each size through 1" [-16])



NITTA CORPORATION OF AMERICA

Nitta Tubing and Fittings ■ More Available...



NYLON, POLYURETHANE, FLAME-RESISTANT TUBING

- Nylon (N1, N2, N5, S) – Excellent oil and chemical resistance, superior flexibility
- Polyurethane (U1, U2, U5, UC, USC, UMC, UML) – Very flexible and tight bend radius without kinking. Easy to route and install in confined spaces.
- Flame-Resistant (FS, FW, FWU)
- Inch and metric options, depending on type
- Versatile products used in many applications

FLUOROCARBON RESIN TUBING – TP (FEP), TA (PFA)

- Very low fluoride ions/metals dissolution
- Excellent heat resistance and water/chemical resistance
- Inch and metric options, depending on type
- Ideal for pharmaceutical, cleanrooms, and other ultrapure applications

POLYOLEFIN RESIN TUBING – PL, PN (SOFT)

- Dust-free, non-leaching
- Low cost
- Excellent water/chemical resistance
- Very flexible
- Ideal for pharmaceutical, cleanrooms, and other ultrapure applications

CHEMIFIT® FITTINGS – C1, CSA, CSE (NEW)

- Oil-free processing
- Excellent chemical resistance
- Clean packing after rinsing
- Fluid contact areas for C1 type are non-metallic
- Chemifit product line is US FDA approved
- Ideal for ultrapure applications: pharmaceutical, instrumentation, cleanrooms, semiconductor, alternative fuels, process, research
- Inch and metric
- High sealing performance
- Easy to assemble
- New CSE type features simple, 2-piece assembly process



PUSHONE FITTINGS

- Fast and easy “push-to-connect” tubing connection without tools
- Thread sealing compound pre-applied
- Quick assembly means less downtime
- Inch and metric

QUICKSEAL FITTINGS

- Robust design – All brass or stainless steel construction
- Fast and easy tubing connection (loosen nut, insert tube, tighten nut)
- Nitta exclusive sleeve design – better sealing – fitting reusable with available replacement sleeves – lower MRO costs
- Excellent in vacuum applications
- Inch and metric

