

WHITE PAPER: Why Choose Type CNP Conduit?

ANACONDA SEALTITE® Type CNP conduit protects wiring in busy industrial production areas.

- If run over by a pallet jack or fork truck, non-metallic CNP conduit bounces back while metal core conduit may be deformed or flattened.
- Since PVC is not electrically conductive, CNP conduit provides additional protection from electrical shock if wiring is damaged in the conduit.
- CNP is flexible so it protects wiring around tight corners.
- The bright orange PVC jacket on this conduit is visible for foot activated controls or other floor level machine controls.
- The outer jacket resists exposure to oil and industrial grease.
- The inner PVC core has a smooth bore for easier wire pulling.
- The nylon knit layer in CNP resists lengthwise stretching and breaking.
- SEALTITE® Nickel-plated Brass Type A fittings can be tightened and loosened when needed, while the threads in nylon fittings can break when overtightened, requiring replacement.
- Nickel-plated Brass Type A fittings snugly hold CNP conduit while resisting dust and water intrusion, pulling force, corrosion and oil breakdown.
- SEALTITE® smooth bore 90-degree Nickel-plated Brass Type A fittings make wire pulling easier.



SEALTITE® Type A Fittings



Smooth Bore on a SEALTITE® Type A 90-degree Fitting

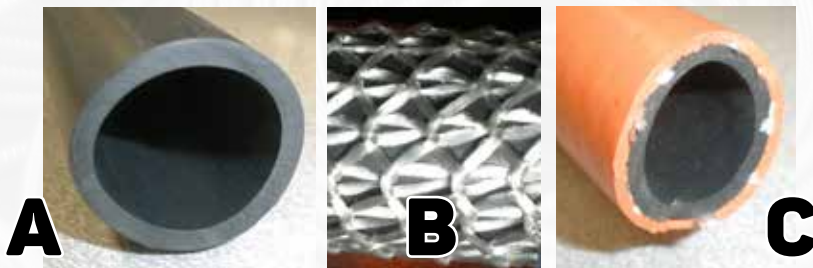


The National Electrical Code (NEC) 2023 describes liquid tight non-metallic conduit (LFNC) as raceway of circular cross section:

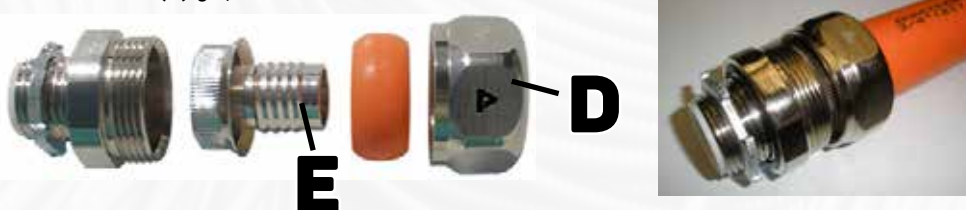
Type CNP LFNC-A (TYPE A)

Type A has a smooth, seamless inner core and cover bonded together and having one or more reinforcement layers between the core and covers, designated as LFNC-A.

ANAMET Electrical, Inc. LFNC-A conduit, Type CNP, has a smooth inner wall PVC core (A) covered with a nylon fiber braid (B) bonded to a smooth, oil resistant PVC cover (C).



Type A fittings must be used, due to the thick wall of the conduit. Type A fittings from ANAMET have a bell flange (D) to hold the conduit jacket, while screw threads of the metal ferrule (E) grip inside the conduit core.



Only Type A fittings provide a liquid tight connection on Type A conduit. Do not use Type B fittings on Type A conduit.



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