

Insulated Copper Tube /Pipe

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A complete line of insulated copper tube and pipe sheathed in high grade flame retardant insulation for thermal resistance up to 120 °C and suitable for any type of residential or commercial Air Conditioners.

As INABA DENKO copper tubes and pipes are pre-insulated, much of installer's time and energy to assemble copper tube/pipe and insulation can be saved.

Besides, tubing is supplied in long length such as 20 or 30 meter coils, and it also supplies less risk of gas leakage with less connecting parts. Rigid pipe is in 4 meter pipes which is more convenient to handle and carry around even in narrow space at installation site.

Available in single pipe (Type NC NEOCOIL, NH NEOPIPE) or paired linesets (Type PC PAIRCOIL), with plain ends, expanded female end.

Safety Relevant Safety Standards

Superior Quality Control

INABA DENKO insulated copper tube and pipe conforms to most current safety and performance standards for copper pipe and insulation.

Flame Retardant Insulation

Our insulation is equivalent to European Standard (EN13501-1) and, German Standard (DIN4102-1, B1 class) and UL-94 HF-1.

Copper Tube

Japanese Standard (JIS H3300 C1220T)
American Standard (ASTM B280 UNS No.C12200)
※Chemical composition and temper

Insulation

European Standard (EN13501-1)
German Standard (DIN 4102-1, B1 class)
UL-94 HF-1

Quality High-Quality Materials

Excellent Thermal Resistance

All insulated tube and pipe products are fabricated with high grade insulation with a thermal resistance up to 120°C.

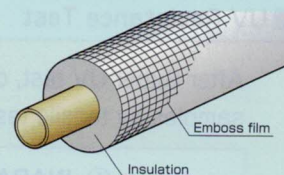
Applicable to New Refrigerant "R32" !!

※Some of limited size are non-applicable.

Wear Resistant Outer Covering

Tough embossed outer covering is easy to tape and prevents damage during installation.

In addition, PE foam has good pressure resistance and it's not easy to be teared, especially at the hanging point.

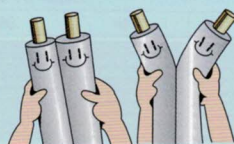


Function

Upgrade Working Efficiency

Improved Installation Efficiency

Easy to bend and cut, Paircoil (PC) can easily be separated by hand. No tools or cutting are necessary.

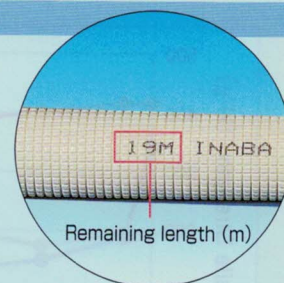


Concealed Installation

For concealed pipe installations, thicker insulation types (20mm/25mm) are available to further reduce sweating.

Length Markings

For 20m & 30m Coil, consecutively numbered length marking are clearly printed at 1 meter intervals on insulation surface to indicate remaining length.



Copper Specifications

The copper tube is oxidation seamless copper tube, and is satisfied with JIS H3300 C1220T.

Chemical composition of copper tube is shown in the below table.

Chemical Composition	
Cu (%)	P (%)
99.90 or more	0.015~0.040

※Complied with ASTM B280 UNS No.C12200

Insulation Specifications

Chemical cross-linked 30 times foamed polyethylene enclosed by a plastic film with an embossed surface.

Item	Value
Thermal Conductivity (Ave. 23°C)	0.037 W/m·K
Tensile Strength	48.2 N/cm ²
Water Absorption Volume	0.06 g/100 cm ³
Thickness Shrinkage Ratio (Ave. 120°C)	2.0 %

※This data is test outcome, not guaranteed value.

Item	Value
Moisture Permeability (per 25mm thickness)	20 ng/m ² ·s·Pa or less
Temperature Range	-40°C~120°C
Flame Retardant (Equivalent to)	EN-13501-1 DIN 4102-1, B1 class UL-94 HF-1

PC/NC-JE**PAIRCOIL·NEOCOIL****■ PAIRCOIL 20M**

Item No.	Copper tube (O.D. × Length)	Copper thickness (mm)	Insulation thickness (mm)	Pcs/Pkg
PC-2320-JE	1/4×3/8×20m	0.8×0.8	8×8	1
PC-2420-JE	1/4×1/2×20m	0.8×0.8	8×10	1
PC-2520-JE	1/4×5/8×20m	0.8×1.0	8×10	1
PC-3520-JE	3/8×5/8×20m	0.8×1.0	8×10	1
PC-3620Z-JE	3/8×3/4×20m	0.8×1.2	8×10	1

■ NEOCOIL 20M

NC-220-JE	1/4×20m	0.8	8	2
NC-320-JE	3/8×20m	0.8	8	2
NC-420-JE	1/2×20m	0.8	10	1
NC-520-JE	5/8×20m	1.0	10	1
NC-620Z-JE	3/4×20m	1.2	10	1

■ PAIRCOIL 30M

PC-2330-JE	1/4×3/8×30m	0.8×0.8	8×8	1
PC-2430-JE	1/4×1/2×30m	0.8×0.8	8×10	1
PC-2530-JE	1/4×5/8×30m	0.8×1.0	8×10	1

■ PAIRCOIL U TYPE 20M

PC-2320U-JE	1/4×3/8×20m	0.61×0.61	8×8	1
PC-2420U-JE	1/4×1/2×20m	0.61×0.61	8×10	1
PC-2520U-JE	1/4×5/8×20m	0.61×0.81	8×10	1

Competitive Model**■ NEOCOIL U TYPE 20M**

NC-220U-JE ★	1/4×20m	0.61	8	2
NC-320U-JE ★	3/8×20m	0.61	8	2
NC-420U-JE ★	1/2×20m	0.61	10	1
NC-520U-JE	5/8×20m	0.81	10	1
NC-620U-JE	3/4×20m	1.0	10	1

■ PAIRCOIL U TYPE 30M

PC-2330U-JE	1/4×3/8×30m	0.61×0.61	8×8	1
PC-2430U-JE	1/4×1/2×30m	0.61×0.61	8×10	1

★ Order Production

Insulation Thickness 20mm

NC-20H**NEOCOIL-20H**

Item No.	Copper tube (O.D. × Length)	Copper thickness (mm)	Insulation thickness (mm)	Pcs/Pkg
NC-220JE-20H	1/4×20m	0.8	20	1
NC-320JE-20H	3/8×20m	0.8	20	1
NC-420JE-20H	1/2×20m	0.8	20	1
NC-520JE-20H	5/8×20m	1.0	20	1
NC-620ZJE-20H	3/4×20m	1.2	20	1