

KUPFER

PREMIUM PAIR COIL



INSULATED PREMIUM PAIR COIL

RECOMMENDED FOR

- Inverter Air Conditioners and refrigeration systems
- All sizes are build with **Fire Retardant insulation** material for highest safety against fire
- High density insulation with **13mm thick insulation**
- All sizes **suitable for R410a refrigerant** as shown by blue insulation & yellow end cap

Pre-insullated Annealed Copper Pair Coils for Split System Air Conditioners



MAIN BENEFITS :

- **Save time and money:**
Install your air conditioning pipework in a fraction of normal time with pre-insulated annealed copper pair coils with **Fire Retardant 13mm** insulation in 1/4" (6.35mm) to 3/4 " (19.05mm) sizes.
- **No glue, no tape and no messy powder:**
Continuous 20m coil length means eliminating the need to seal joints every two meter, saving even more time.
- **Easy to install and to transport :**
The exterior film is stronger and more resistant to abrasion than traditional materials, and can be easily pushed through tight spaces without being caught or torn. The 20m coils are packed in premium white cardboard cartons and are easily transported.

QUALITY INSULATION:

Tube insulation is manufactured from cross-linked, foamed, closed cell polyethylene film with extra **Fire Retardant** for fire hazard safety. The exterior exposed polyethylene film contains an additive to improve **UV protection** against harsh tropical sun light in Indonesia. Insulation is heat resistant to 120°C and has superior dew-point characteristics.

INSTALLATION :

Joining :

Kupfer Pair Coil copper tube is recommended to be flare jointed. If brazing is necessary, all safety precautions should apply.

Bending :

If tight bending is required, the installation can be cut back to accommodate a tube bender. Alternatively a length of polyethylene tube can be inserted to prevent kinking.



Mitra Suplai Sentosa

Copper Tubes Safe Working Pressure (kPa)

Actual tube size (mm)	SWP (kPa)		
	@50 °C	@65 °C	@75 °C
6.35 x 0.81	10,635	9,545	8,820
9.52 x 0.81	6,800	6,105	5,640
12.70 x 0.81	4,995	4,480	4,140
15.88 x 1.02	5,030	4,515	4,170
19.05 x 1.14	4,697	4,181	3,895

Recommended maximum operating temperature is 65°C and in accordance with AS 1677. Air Conditioner manufacturers' operating and installation instructions should be followed and consulted.

CAUTION: Product data, design details, performance figures, advice and other information given herein (the Information) are provided only as a guidance to available information. Metal Manufacturers and Distributors do not accept any liability whatsoever (including arising from negligence) for the accuracy of the Information and for injuries, expense or lost, which may arise as a result of the use of the Information by the recipient.

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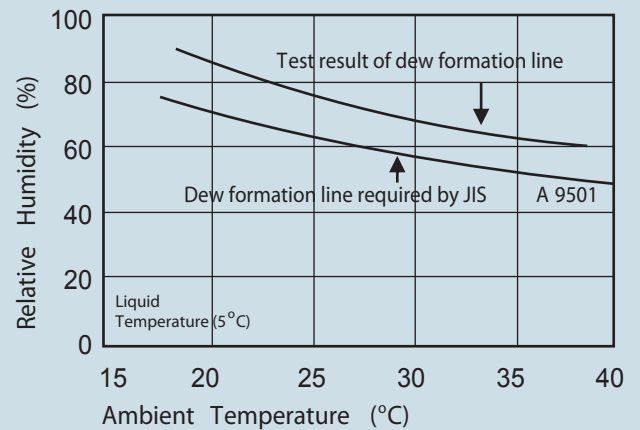
with **13mm High Density Fire Retardant** insulation and UV stabilized outer insulation.

Refrigerant Working Pressure (kPa)

Refrigerant type	Refrigerant Saturated Vapor Pressure (kPa)				
	@50 °C	@55 °C	@60 °C	@65 °C	@70 °C
R22	1,855	2,095	2,345	2,592	2,895
R134a	1,234	1,383	1,571	1,789	2,016
R404A	2,224	2,503	2,805	3,093	-
R407C	1,777	2,025	2,297	2,595	-
R410A	2,945	3,308	3,702	4,131	-
R507A	1,977	2,215	2,475	2,865	3,090

* Change in flaring dimension for R410A. For details refer to Air Conditioner manufacturers specification.

Dew Point Graph



INSULATED PAIR COIL SPECIFICATIONS (Suitable for High Pressure Refrigeration)

Kupfer product code	Copper tube outside diameter x wall thickness (inches) x (mm)	Copper tube outside diameter (inches)	Pair coil length (m)	Pair coils per carton	Carton dimensions (cm)	Gross Weight per coil (kg)
K91438	1/4" x 0.61 - 3/8" x 0.71	1/4 - 3/8	20	1	71 x 71 x 20	6.6
K91412	1/4" x 0.61 - 1/2" x 0.71	1/4 - 1/2	20	1	72 x 72 x 21	7.9
K91458	1/4" x 0.61 - 5/8" x 0.71	1/4 - 5/8	20	1	81 x 81 x 22	9.3
K93858	3/8" x 0.71 - 5/8" x 0.81	3/8 - 5/8	20	1	82 x 82 x 22	11.0
K93834	3/8" x 0.71 - 3/4" x 0.81	3/8 - 3/4	20	1	82 x 82 x 25	12.2

INSULATION PROPERTIES IN ACCORDANCE WITH JIS A9511 & KSM 3862

Thermal conductivity	Tensile strenght	Water absorption	Thickness shrinkage percentage	Coefficient of moisture permeability
W/m•K mean temperature 20 °C	N/cm (kgf/cm)	g/100 cm	@ (120 ±5 °C)	(per 25mm in thickness) ng/m²•s•Pa (g/m²•h•mmHG)
0.037	34.2 (3.49) min	0.0076 max	5% max	10 (0.005) max

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