

PAIR COIL BLACK STANDARD



Freddox's premium black pair coil is a new generation pre-insulated copper tube designed for all refrigerants, including R410A and R32. Being pre-insulated increases ease of installation, as there is no need to insulate on site.

Freddox pair coil foam insulation is heat resistant to 120°C. Primary applications include domestic and commercial air conditioning systems.

Key Features

- Minimal gap between the copper tube and insulation reduces condensation risk.
- Thicker, tougher embossed outer skin that is scratch-and tear-resistant.
- Dark-coloured insulation foam for superior weather & UV resistance.
- Fire-retardant, IXPE insulation compliant with EN 13501 fire classification (Class BL-s1, d0).
- Environmentally responsible PE-based insulation that is RoHS compliant, CFC-free, and PVC-free.
- Manufactured in accordance with AS/NZS 1571 for seamless copper tube used in air-conditioning and refrigeration.
- High-quality annealed O-temper copper with a Vickers hardness of 75 HV for enhanced flexibility.
- Easily bendable tubing with a low risk of kinking for easy installation.
- Minimum 99.90% copper composition with phosphorus content between 0.015% and 0.040%.
- Quality manufacturing certified to ISO 9001.

TECHNICAL DATA

Insulation Properties

PROPERTY	UNIT OF MEASURE	VALUE
Thermal Conductivity (ASTM C518)	W/m.K	0.037 @20°C
Tensile Strength	N/cm ² (kgf/cm ²)	49 (5.0)
Water Absorption	g/100cm ²	0.07 max
Thickness Shrinkage	% @ 120(+/- 5°C)	4

*Material – The insulation material used is cross-linked polyethylene foam, enclosed by thick embossed polyethylene film.

PAIR COIL INSULATION - DEW POINT LIMIT

Ambient Temp (°C)	20	25
Max. Ambient Humidity (%)	86%	77%

Range

PART NUMBER	INSULATION THICKNESS (mm)	COPPER TUBE O.D (in)	COPPER TUBE O.D X WALL THICKNESS (mm)	LENGTH (M)
PC06350952B	8 x 8	1/4 - 3/8	6.35 x 0.80 - 9.52 x 0.80	20
PC06351270B	8 x 10	1/4 - 1/2	6.35 x 0.80 - 12.70 x 0.80	20
PC06351588B	8 x 10	1/4 - 5/8	6.35 x 0.80 - 15.88 x 1.00	20
PC09521588B	8 x 10	3/8 - 5/8	9.52 x 0.80 - 15.88 x 1.00	20
PC09521905B	8 x 10	3/8 - 3/4	9.52 x 0.80 - 19.05 x 1.14	20
PC09522222B	8 x 10	3/8 - 7/8	9.52 x 0.80 - 22.22 x 1.20	20

Note: Freddox pair coil is self-extinguishing level fire retardance complying with the latest European standard EN13501 (Class BL-s1, d0)

For applications requiring fire retardance according to AS 1530.3 (Fire indices 0.0.0.5), please use Fire Retardant NBR Pair Coil.

FREDDOXBLACKPCOIL_1225