

SuperPairFR[®]

Fire Rated Pair Tubing for Air Conditioning and Refrigeration Systems

Actrol SuperPairFR is available in convenient 3 meter and traditional 18 meter coils.

Fire rated, high quality, paired annealed refrigeration grade copper tubes insulated with superior paired nitrile rubber.

SuperPair FR has to be the best solution!



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SuperPair FR is a pair of annealed refrigeration grade copper tubes, insulated with high quality fire rated closed cell rubber insulation. Available in traditional coils, SuperPair FR introduces 3 meter lengths of pre-insulated annealed copper to the trade for the first time. Utilising the 3 meter lengths, quoting for, and installing, common “back to back” air conditioning installations is faster and easier than ever before. Three meter lengths also mean that you can purchase only what you need.

SuperPair FR is the solution if you’re installing split system air conditioners, and it’s ideal for refrigeration installs as well. It’s lightweight, easy to handle and simple to use. SuperPair FR is insulated with Superlon FR which is an expanded closed cell nitrile rubber material that provides superior thermal insulation and the most efficient vapour barrier for the prevention of condensation. SuperPair FR provides you with the extra confidence of knowing you’ll be using a high quality, fire rated product on every job.

Features:

- 3 meter and 18 meter coils
- Complies with Building Code of Australia (BCA) requirements
- High quality annealed (soft) copper
- Low thermal conductivity (K value)
- R410A rated

18m COILS					
Pipe Sizes (inches)	Pipe Sizes (metric)	9mm Insulation Catalogue No.	13mm Insulation Catalogue No.	19mm Insulation Catalogue No.	25mm Insulation Catalogue No.
1/4 x 3/8	6.35 x 9.52	208173	208194	208203	Contact your local branch for information.
1/4 x 1/2	6.35 x 12.7	208174	208195	208204	
1/4 x 5/8	6.35 x 15.88	208175	208196	208205	
3/8 x 5/8	9.52 x 15.88	208176	208197	206206	
3/8 x 3/4	9.52 x 19.05	208177	–	208207	
1/2 x 3/4	12.7 x 19.05	208178	–	–	

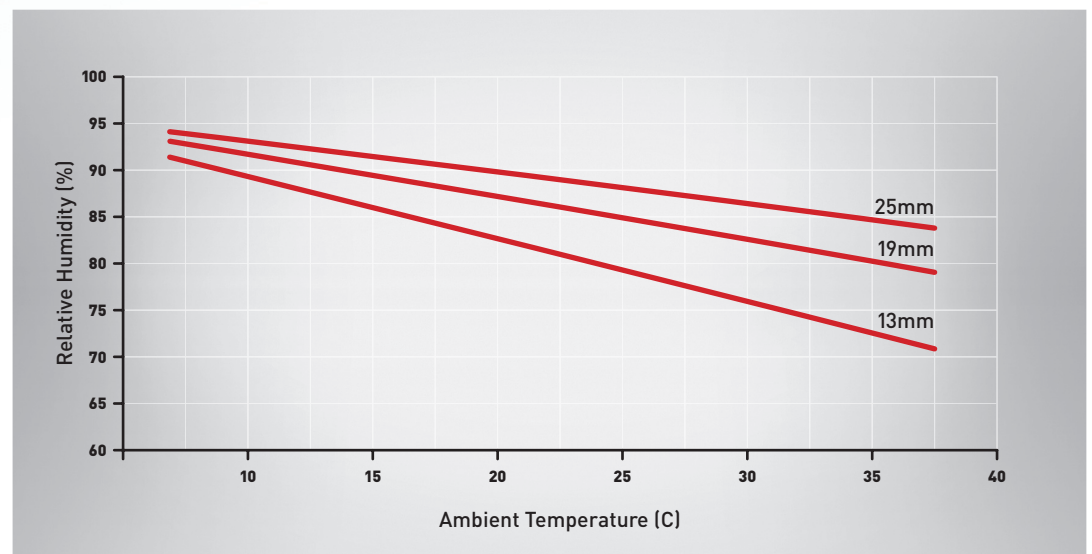
3m COILS		
Pipe Sizes (inches)	Pipe Sizes (metric)	9mm Insulation Catalogue No.
1/4 x 3/8	6.35 x 9.52	208188
1/4 x 1/2	6.35 x 12.7	208189
1/4 x 5/8	6.35 x 15.88	208190
3/8 x 5/8	9.52 x 15.88	208191
3/8 x 3/4	9.52 x 19.05	208192
1/2 x 3/4	12.7 x 19.05	208193

BCA COMPLIANT R-VALUES

- BCA Volume 1 has insulation requirements as part of Section J for Energy Efficiency
- BCA Specification J5.4, Table 2b, covers refrigerant piping for sizes of 15mm (5/8") size or larger
- The suction line of an air-conditioner running R410A refrigerant in cooling mode would have a typical temperature of 2°C to 5°C (after the expansion valve).
- Table 2b requires that refrigerant pipes of 2°C to 20°C must be insulated the same as cooling water (Table 2a)
- The most arduous R-values are needed for locations outside a building or in unenclosed floors and roof spaces:
 - R1.2 is needed for climate zones 1, 2, 3 and 5.
 - R0.8 is needed for climate zones 4, 6, 7 and 8.
- 19mm SuperPair FR achieves R > 0.8 on 15mm (5/8") & 20mm (3/4") pipes
- 25mm SuperPair FR achieves R > 1.2 on 15mm (5/8") & 20mm (3/4") pipes

EXCELLENT CONDENSATION CONTROL

- The graph below provides a guide to choosing insulation thickness for SuperPair FR
- The lines represent dew point on a 5°C pre-insulated SuperPair FR pipe (5/8")
- For each insulation thickness, condensation will be controlled for all temperature and humidity levels that are below the line



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