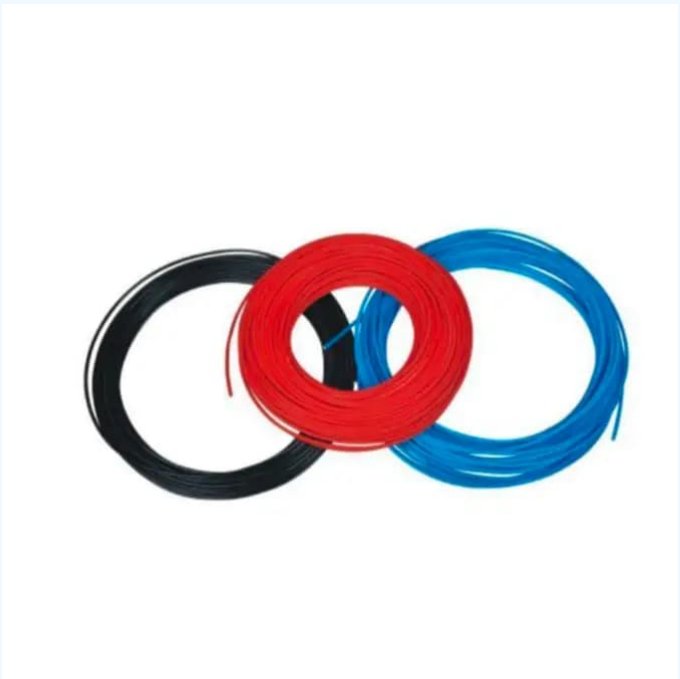
PRODUCT MANUAL

Refrigerant Charging Hose



CATEGORY	MODEL	ISSUE DATE
Tools & Service	—	2026-11-29

1. Product Overview

This is the flexible charging and connection hose used with condensing units and service equipment. It is a rubber core with a braided reinforcement and a working pressure of 19.6 MPa (200 kgf/cm2) on the 1/4 inch size and 9.8 MPa (100 kgf/cm2) on the 3/8 inch size - well above anything a refrigeration circuit will see, which is why the same hose is used for both refrigerant transfer and pressure testing.

The 1/4 inch hose has a 2.6 mm bore and 5.8 mm outside diameter with a minimum bend radius of 15 mm; the 3/8 inch hose has a 5 mm bore, 10 mm outside diameter and a 20 mm minimum bend radius. Both are rated from -40 C to +130 C, so they stay flexible in a cold room and do not soften on a hot discharge line.

The small bore is deliberate. A charging hose is not a transfer line: it carries liquid or gas at low flow while a system is being charged or evacuated, and a small bore keeps the volume in the hose low so that less refrigerant is lost when the hose is disconnected.

Use within the bend radius. A hose forced into a tight radius kinks, the braid takes the load, and the core collapses at the kink - the hose then looks fine but flows badly, which is easy to misdiagnose as a pump or valve problem. Check the end fittings for swaging cracks at each service; a hose that has been pulled off a connection by its body rather than its nut is a candidate for replacement.

Store hoses coiled rather than hanging, and keep them capped - a charging hose with an open end collects moisture and dirt, and that dirt ends up in the next system.

2. Key Features

- Charging hose for condensing units and service work
- Working pressure up to 200 kgf/cm²
- Supplied with 1/4" SAE fittings

3. Technical Specifications

Item	Specification
Size	1/4" and 3/8"
Inner / outer diameter	2.6 / 5.8 mm (1/4"); 5 / 10 mm (3/8")
Working pressure	19.6 MPa (200 kgf/cm²) for 1/4"; 9.8 MPa (100 kgf/cm²) for 3/8"
Min. bending radius	15 mm (1/4"); 20 mm (3/8")
Operating temperature	-40 ~ +130 °C

4. Commercial Terms

MINIMUM ORDER
Negotiable

LEAD TIME
Negotiable

SHIPPING PORT	**Shanghai / Ningbo, China**
PLACE OF ORIGIN	**China**
PAYMENT TERMS	**T/T, L/C**
SUPPLY ABILITY	**Negotiable**

Contact us for a free quotation

Our engineering team replies within 24 hours with selection advice and an FOB / CIF quotation.



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