



Capillary Tubing Systems and Accessories



Simplifying the Connection of:

- ... Pressure Switches
- ... Pressure Transducers
- ... Manometers
- ... Water Flow Controls
- ... Fan Speed Controls
- ... Oil Separators, Level Regulators
- ... Associated Others



Product List Effective May 2007

**TEST INSTRUMENTATION
AND CONTROLS**



**The sophisticated system of polyamide capillary tubing
with excellent mechanical and thermal properties!**

Suitable for air, water, all kinds of lubrication oils used for refrigeration compressors, all non-corrosive refrigerants including hydrocarbon refrigerant, natural gas & LPG and the relevant special oils, such as ester- and PAG.

H6 Refflex

All tubing complies with pr-EN1736

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DN-2.0mm Capillary Tubing

2.0mm ID tubing with its incredible flexibility is used for the permanent connection of pressure switches, manometers and fan speed controllers etc.

Both straight and angle connectors have hot-forged brass flare nuts - the best option for the refrigeration industry!

Backwards-sliding nuts enable the easy positioning of a copper gasket.

Available with a full choice of straight, angle and tee-connectors.



Properties:

- Highly flexible (5.6 x 2 ID mm) and able to bend within an extremely short radius
- Superb vibration absorbing capabilities
- Suitable for -40° / 115°C
- Max. Working Pressure 40 Bar
- Burst Pressure > 1000 Bar
- Ozone and oil resistant with UV stabilised outer jacket
- Extremely easy to work with

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DN2 Fittings & Tube Pricing:

Hamer Code	Description	Type	Package
RF750	DN-2.0 Polyamide Tube		50 mtr
RF631	DN-2.0 Flare connector ¼" straight	S	50 pc
RF633	DN-2.0 Flare connector ¼" 90° elbow	E	50 pc
RF638	DN-2.0 Tee connector, 3 hoses	3H *	25 pc
RF644	DN-2.0 Tee connector, 2 hoses x ¼" fl.	HHF *	25 pc
RF641	DN-2.0 Tee connector, 2 hoses x ¼" fl.	HFH *	25 pc

RFKIT1	Starter Kit comprising 10 metres DN2mm tubing, 25 x straight, 25 x elbow , 2 x tee combinations, 100 gaskets, 1 x crimp & 1 x cutting tool
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Available in a standard range of ex-stock assemblies between 0.3 & 0.6 metres and a made to order option in any assembly from 0.15 to 50 metres long.

* Steel Flare Nuts

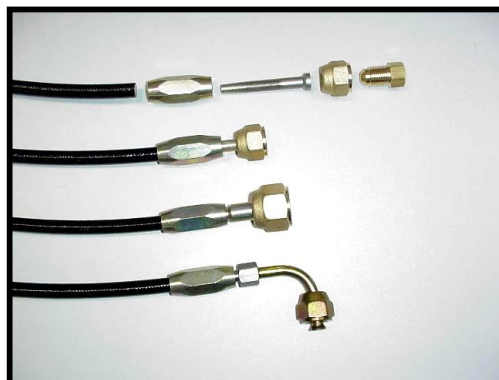
DN-5.0mm Capillary Tubing

5.0mm ID tubing is for oil return to compressors in multiple compressor systems in supermarkets etc.

Available in both crimp or screw connecting systems.

Hot-forged brass flared nuts (the best option for the refrigeration industry) are backwards-sliding to enable the easy positioning of a copper gasket.

Connectors available in either ¼" or ⅜" flare nut version.



Properties

- § Highly flexible with superb vibration absorbing capabilities
- § Suitable for - 35° / 115°C
- § Max. Working Pressure 40 Bar
- § Burst Pressure > 345 Bar
- § Ozone and oil resistant with UV stabilized outer jacket
- § Extremely easy to work with

DN5 Fittings & Tube Pricing

Hamer Code	Description	Type	Package
RF649	DN-5.0 Tube		25 mtr
RF629	DN-5.0 Flare connector ¼" straight, screw system	SS	20 pc
RF628	DN-5.0 Flare connector ⅜" straight, screw system	SS	20 pc
RF642	DN-5.0 Flare connector ¼" 90° elbow, screw system	ES	20 pc
RF643	DN-5.0 Flare connector ⅜" 90° elbow, screw system	ES	10 pc
RF645	DN-5.0 Flare connector ¼" straight, crimping system	S	25 pc
RF678	DN-5.0 Flare connector ⅜" straight, crimping system	S	25 pc
RF646	DN-5.0 Flare connector ¼" 90° elbow, crimping system	E	25 pc
RF679	DN-5.0 Flare connector ⅜" 90° elbow, crimping system	E	25 pc
RF647	DN-5.0 Combi-Tee comprises ¼" flare c/w DN5.0mm crimp & DN2.0mm branch crimp		10 pc

- The screw connection system is the “easy-made” product for the fast and simple production of on-site or workshop manufactured fittings and can be prepared using standard tools.
- Standard lengths are available with a choice of connection options.
- The straight crimping fittings and sleeves for 5mm tube are stainless steel for strength and to protect against corrosion (flare nuts remain hot-forged brass).

Refflex Tools & Gaskets

Both a hand held and a workbench tool are available for the manufacture of the high quality crimp type connections.

- For the service job "en route" there is a hand held tool (for the production of DN2 fittings only)
- For the multiple production of flexible connections there is a sophisticated workbench tool.



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Refflex Tools & Fittings

Hamer Code	Product Price List	Package
RF634	Small cutting tool for 2 mm ID tube	pc
RF639	HD cutting tool for 2 and 5 mm ID tube	pc
RF632	Crimping tool (hand model) for 2mm only	pc
RF636	Crimping tool (workshop model) for 2 and 5 mm tube	pc

Accessories

Hamer Code	Product Price List	Package
RF126	Copper gasket 1/4" (B2-4)	100 pc
RF131	Copper gasket 3/8" (B2-6)	100 pc
RF136	Copper gasket 1/2" (B2-8)	100 pc
RF141	Copper gasket 5/8" (B2-10)	100 pc
RF146	Copper gasket 3/4" (B2-12)	100 pc
RF939	7/16" UNF (1/4" Flare) Hot Forged Brass Refflex Nut	100 pc
RF611	DN-2.0 Aluminium Sleeves	pc
RF612	Schrader Valve Depressor Pin (Suitable for all 1/4" Flare Connections, DN2 and DN5)	pc

FL / ODS Solder Fittings

In refrigeration and AC systems a flared connection may be required where equipment, such as pressure switches, filter-driers, etc have to be replaced for service purposes. Usually, the traditional **hand-made** flared end to the copper tube is the weak spot and therefore some countries have completely forbidden to apply such connections, if the collar has not been machined as it is with Reflex[®] items.



Refflex[®] ODS x Flare connectors with brass nipples and stainless steel nuts.

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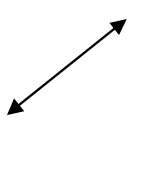
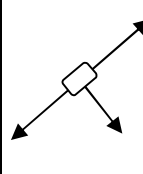
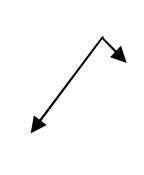
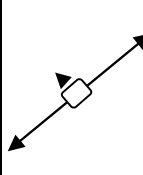
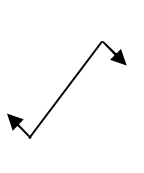
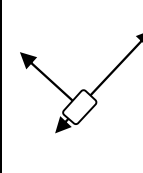
Refflex[®] offers a full range of solid machined flared connectors in sizes 1/4" to 3/4" ODS (7/16" to 7/8" UNF) with brass nipples and solid stainless steel nuts. These can be applied together with the usual (standard) copper gaskets B2-4 (1/4") to B2-12 (3/4").

Brass Solder Fittings Pricing

Hamer Code	Brass Nipples & Stainless Steel Nuts	Pack Size
RF010	1/4" flare ODS Connector *	50 pc
RF015	3/8" flare ODS Connector *	50 pc
RF020	1/2" flare ODS Connector *	50 pc
RF025	5/8" flare ODS Connector *	25 pc
RF030	3/4" flare ODS Connector *	25 pc

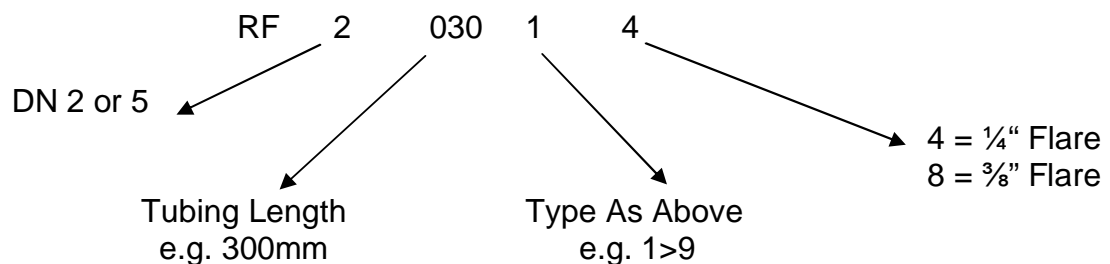
* Also available in metric 6, 10, 12, 15-16 or 18mm under indent conditions.

Ready Made Assemblies

	Type 1 (SS) Straight Hose System ¼" Flare Connection DN5.0 also available in ⅜"		Type 7 (3H) 3 x Hose Tee ¼" Flare Connections Available only in DN2.0
	Type 2 (SE) Straight & Elbow Hose System ¼" Flare Connection only (at present)		Type 8 (HFH) 2 x Hose Tee Vertical Flare ¼" Flare Connections Available only in DN2.0
	Type 3 (EE) Elbow & Elbow Hose System ¼" Flare Connection only (at present)		Type 9 (HHF) 2 x Hose Tee Horizontal Flare ¼" Flare Connections Available only in DN2.0

◀ Flare Connection
□ Tee Connection
— Tube

Coding



Please Note:

- 1) Crimp style joints form part of our main stocked range only as screw type fittings and tubing sold only in component part form.

Hamer Code	Description
RF203014	Refflex DN2 300mm Type SS ¼"
RF203024	Refflex DN2 300mm Type SE ¼"
RF203034	Refflex DN2 300mm Type EE ¼"
RF204514	Refflex DN2 450mm Type SS ¼"
RF204524	Refflex DN2 450mm Type SE ¼"
RF204534	Refflex DN2 450mm Type EE ¼"
RF206014	Refflex DN2 600mm Type SS ¼"
RF206024	Refflex DN2 600mm Type SE ¼"
RF206034	Refflex DN2 600mm Type EE ¼"

REFFLEX[®]

Capillary tubing systems and accessories for the permanent connection of pressure switches, manometers, oil returns on compressors and fan speed controllers...



- Highly flexible with superb vibration absorbing capabilities.
- Ozone & oil resistant with UV stabilised outer jacket.
- Hot forged brass flare nuts - the best option for the refrigeration industry.

Hamer
Hamer Limited

Specialist Importer of High Quality Products for the Refrigeration & Electrical Industries.

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