

Flexible hose solutions

Air conditioning and refrigeration hose



Powering Business Worldwide

Air conditioning and refrigeration hose

GH001	E-3	FC800	E-5
GH134	E-4	FC555	E-6
FC802	E-4		

E



Air conditioning and refrigeration

E

GH001 EverCool™ A/C and refrigeration E-3



GH134 A/C and refrigeration E-4



FC802 A/C and refrigeration E-4



FC800 EverCool™ A/C hose E-5



FC555 Multi-refrigerant hose E-6



GH001

EverCool™ A/C and refrigeration

Exceeds: SAE J2064 Type E, Class 1



# Part number	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Vacuum service	
	DN	mm in	mm in	bar psi	bar psi	mm in	kg/m lbs/ft	kPa in						
	GH001-4	5	4,8 0.19	11,6 0.46	35 500	140 2000	38,1 1.50	0,100 0.07	94,8 28					
GH001-6	8	7,9 0.31	14,7 0.58	35 500	140 2000	50,0 2.00	0,135 0.09	94,8 28						
GH001-8	10	10,3 0.41	17,8 0.70	35 500	140 2000	63,0 2.50	0,177 0.12	94,8 28						
GH001-10	12	12,7 0.50	19,8 0.78	35 500	140 2000	76,2 3.00	0,223 0.15	94,8 28						
GH001-12	16	15,9 0.63	24,9 0.98	35 500	140 2000	101,6 4.00	0,269 0.18	94,8 28						
GH001-16	19	22,4 0.88	31,2 1.23	35 500	140 2000	127,0 7.00	0,430 0.22	94,8 28						

Construction

Tube: New dual extrusion technology polyamide Type E veneer

Reinforcement: Polyester braid

Cover: Blended EPDM

Operating parameters

-40°C to +140°C
(-40°F to +284°F)

R1234yf effusion
<1kg/m²/yr at 80°C

R134a effusion
<1.5kg/m²/yr at 80°C

Oils
POE, PAG, Mineral oil, Alkybenzene

Moisture ingress
Class I

Benefits

- Extremely low permeation
- Excellent heat resistance offering a higher functional temperature range than SAE J2064 Type C or E hoses.
- Ozone and UV resistant
- Easy to install – significant reduction in potential hose damage. GH001 has maximum kink resistance, temperature resistance
- SAE J2064 Type E veneer tube offers excellent oil and refrigerant compatibility

Application

- A/C systems for truck, bus, agriculture, construction equipment and refrigeration systems

For more information refer to E-HOAC-BB001-E.

Fitting reference

Factory Crimp – contact Eaton technical support.

E-Z Clip fittings – refer to A-HOAC-MC001-E, A/C and Refrigeration hose and fittings.

Air conditioning and refrigeration

E

GH134

A/C and refrigeration hose

Exceeds: SAE J2064 Type E Class 1



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		E-Z Clip minimum burst pressure		Minimum bend radius		Weight		Vacuum service	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	kPa	in
GH134-6	8	7,9	0.31	14,7	0.58	35	500	140	2000	50,0	2.00	0,13	0.09	94,8	28
GH134-8	10	10,3	0.41	17,8	0.70	35	500	140	2000	63,5	2.50	0,18	0.12	94,8	28
GH134-10	13	12,7	0.50	19,8	0.78	35	500	140	2000	76,2	3.00	0,22	0.15	94,8	28
GH134-12	16	15,9	0.63	24,9	0.98	35	500	140	2000	101,6	4.00	0,27	0.18	94,8	28
GH134-16	19	22,4	0.88	31,2	1.23	35	500	140	2000	127,0	7.00	0,43	0.22	94,8	28

Construction

Tube: Polyamide veneer

Reinforcement: Polyester braid

Cover: CR

Operating parameters

-40°C to +135°C
(-40°F to +275°F)

R-134a effusion

<2.4 kg/m²/yr. at 80°C
(.50 lbs./ft²/yr. at 176°F)

Moisture ingress

.013/cm²/yr. (.08 gm./in²/yr.)

Benefits

- Excellent effusion resistance
- Extended service life
- Superior abrasion resistance
- Field attachable fittings

Application

- Mobile A/C
- Refrigeration and A/C system

Fitting reference

Factory Crimp – contact Eaton technical support.

E-Z Clip fittings – refer to A-HOAC-MC001-E, A/C and Refrigeration hose and fittings.

FC802

Multi-refrigerant A/C and refrigeration hose

Meets: SAE J51



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Vacuum service	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	kPa	in
FC802-04	4	5,1	0.20	13,2	0.52	35	500	175	2500	50,8	2.0	0,16	0.11	94,8	28
FC802-06	6	8,38	0.33	17,3	0.68	35	500	175	2500	63,5	2.5	0,24	0.16	94,8	28
FC802-08	8	10,67	0.42	19,6	0.77	35	500	175	2500	76,2	3.0	0,27	0.18	94,8	28
FC802-10	10	13,2	0.52	23,4	0.92	35	500	175	2500	88,9	3.5	0,42	0.28	94,8	28
FC802-12	12	16,51	0.65	27,4	1.08	35	500	175	2500	114,3	4.5	0,51	0.34	94,8	28

Construction

Tube: Polyamide veneer

Reinforcement: Single polyester braid

Cover: Bromobutyl

Operating parameters

-40°C to +250°C
(-40°F to +121°F)

HFC 134a effusion

.25 lbs/ft²/yr at 176°F
(1.21 kg/m²/yr at 80°C)

Moisture ingress

.08 gm/in²/yr (.013/cm²/yr)
(Class1)

Benefits

- Excellent flexibility and heat resistance
- Excellent noise and kink resistance
- Ease of installation and routing

Application

- Mobile A/C
- Stationary A/C system and refrigeration

For more information refer to the E-Z Clip A-HOAC-MC001-E A/C and Refrigeration hose and fittings.

Fitting reference

Reusable

100R5 Fitting	I-4-16
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FC800 EverCool™ A/C hose

Meets: SAE J2064



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Vacuum service	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	kPa	in
FC800-12	12	16,4	0.65	27,2	1.07	35	500	140	2000	70	3.0	0,67	0.45	94,8	28
FC800-16	16	22,8	0.90	31,5	1.24	35	500	140	2000	80	3.5	0,71	0.48	94,8	28
FC800-20	20	29,3	1.15	38,6	1.52	35	500	140	2000	100	4.0	0,92	0.62	94,8	28
FC800-24	24	35,5	1.40	45,6	1.80	35	500	140	2000	160	6.5	1,16	0.78	94,8	28

Construction

Tube: Chloroprene (CR)

Barrier Layer:
Polyamide (PA)

Reinforcement:
1 wire braid

Cover: EPDM

Operating parameters

-40°C to +125°C
(-40°F to +257°F)

Permeation rate

<1,0 kg/m²/year
(for R134a at 80°C)

Moisture ingress

<0.039 g/cm²/year
according to SAE J2064,
Class 1

Refrigerant use

R134a, R407C, HF1234yf.
Additional refrigerants and
refrigerant oils upon request.

Benefits

- FC800 EverCool exceeds the requirements of the SAE J2064
- FC800 has an excellent bend radius, virtually 1/2 of the radius of comparable large bore hoses

Applications

- Metro, large bus and rail
- Overhead cranes and stationary equipment

For more information refer to A-HOAC-MR003-E, EverCool New Large Bore A/C Hose.

Fitting reference

Refer to A-HOAC-MR003-E catalog FC800 EverCool™ New Large Bore A/C Hose.

FC555

Multi-refrigerant A/C and refrigeration hose

Meets: SAE J2064



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Vacuum service	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	kPa	in
FC555-12	12	15.9	0.62	28,5	1.2	35	500	175	2500	63.5	2.50	0,30	0.20	94,8	28
FC555-16	16	22.4	0.88	35,1	1.38	35	500	175	2500	76.2	3.00	0,40	0.27	94,8	28
FC555-20	25	28.4	1.2	41,9	1.65	35	500	175	2500	101.6	4.00	0,49	0.33	94,8	28

Construction

Tube: Corrugated polyamide

Reinforcement:
Polyester braid

Cover: Abrasion resistant polyester braided cover

Operating parameters

-40°C to +125°C
(-40°F to +257°F)

R134a effusion
.97 kg/m²/yr at 80°C
(.20 lbs/ft²/yr at 180°F)

Moisture ingress ion
Class I

Features

- Machined hose nipple with two o-rings
- O-ring material - HNBR
- One-piece fitting design, factory crimp
- Abrasion resistant

Benefits

- Optimum sealing at the hose nipple interface
- Multi-refrigerant compatible
- Significantly exceeds industry standards for refrigerant loss
- Simplifies inventory

Applications

- Large and medium buses
- Rail
- Applications where extreme flexibility is required for a large-size hose

For more information refer to A-HOAC-MR001-E Multi-Refrigerant Hose and Fittings.

Fitting reference

Factory crimp fittings available. For more information, refer to A-HOAC-MR001-E, FC800 EverCool™ New Large Bore A/C Hose.