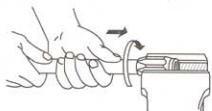


†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose End 247 'N' Series



 Refer to important safety information on page 3 of this catalog.

Typical Application: Medium pressure and high temperature hose lines for a variety of applications including truck, industrial, and small engine where temperature may be a problem.

Compatible Hose: H059; H069; H166; H169; H229; H366; H569.

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; yellow dichromate finish

Advantages: Very popular in heavy-duty truck markets. Good selection of hose ends. Compatible with a wide variety of hose types allowing for a diverse number of applications. Non-mandrel assembly.

Ordering Information: Order individually by catalog number.

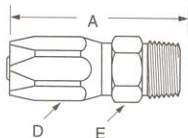
Assembly Instructions:

1. Lubricate insert threads and I.D. of hose.
2. Screw hose into socket (left-hand thread) until hose bottoms. Back out 1/4 turn.
3. Screw insert into socket until insert touches socket.

Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

Label Set: FS-600

Male Pipe Rigid



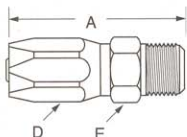
HOSE I.D.	PIPE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
3/16	1/8	24704N-102	1/8-27	1.71	1	.12	5/8	7/16
3/16	1/4	24704N-104	1/4-18	1.91	1.19	.12	5/8	9/16
1/4	1/4	24705N-104	1/4-18	1.96	1.25	.18	11/16	9/16
5/16	1/4	24706N-104	1/4-18	2.08	1.25	.25	13/16	9/16
5/16	3/8	24706N-106	3/8-18	2.11	1.25	.25	13/16	11/16
13/32	3/8	24708N-106	3/8-18	2.48	1.38	.36	15/16	11/16
13/32	1/2	24708N-108	1/2-14	2.71	1.63	.36	15/16	7/8
1/2	1/2	24710N-108	1/2-14	2.88	1.63	.45	1-1/8	7/8
1/2	3/4	24710N-112	3/4-14	2.94	1.69	.45	1-1/8	1-1/8
5/8	3/4	24712N-112	3/4-14	3.23	1.75	.55	1-1/4	1-1/4

COLL-CRIMP

Field Attachable 247 'N' Series

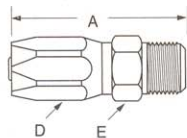
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

JIC 37° Male Rigid



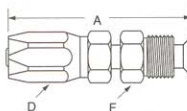
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
3/16	1/4	24704N-504	7/16-20	1.91	1.19	.12	5/8	1/2
1/4	5/16	24705N-505	1/2-20	2.01	1.19	.18	11/16	9/16
5/16	3/8	24706N-506	9/16-18	2.13	1.25	.25	13/16	5/8
13/32	1/2	24708N-508	3/4-16	2.64	1.56	.36	15/16	13/16
1/2	5/8	24710N-510	7/8-14	2.92	1.69	.45	1-1/8	15/16
5/8	3/4	24712N-512	1-1/16-12	3.32	1.81	.55	1-1/4	1-1/8
7/8	1	24716N-516	1-5/16-12	2.97	1.81	.81	1-7/16	1-3/8

SAE 45° Flare Male Rigid



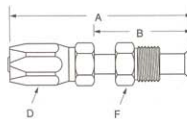
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX E
3/16	1/4	24704N-304	7/16-20	1.84	1.13	.12	5/8	1/2
1/4	5/16	24705N-305	1/2-20	2.00	1.25	.18	11/16	9/16
5/16	3/8	24706N-306	5/8-18	2.19	1.25	.25	13/16	11/16
13/32	1/2	24708N-308	3/4-16	2.67	1.50	.36	15/16	13/16
1/2	5/8	24710N-310	7/8-14	3.01	1.75	.45	1-1/8	15/16
5/8	3/4	24712N-312	1-1/16-14	3.46	1.88	.55	1-1/4	1-1/8

Inverted Male Swivel Straight

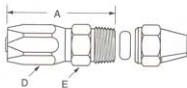


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	24704N-B04	7/16-24	2.54	1.81	.18	5/8	7/16
1/4	5/16	24705N-B05	1/2-20	2.75	2.00	.21	11/16	1/2
5/16	3/8	24706N-B06	5/8-18	2.91	2.00	.31	13/16	5/8
13/32	1/2	24708N-B08	3/4-18	3.63	2.50	.43	15/16	3/4

Inverted Male Swivel - Extended



HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
5/16	1/4	24706N-B24	7/16-24	7.62	6.00	6.75	.15	13/16	7/16
5/16	5/16	24706N-B25	1/2-20	7.62	6.00	6.75	.21	13/16	1/2
5/16	3/8	24706N-B26	5/8-18	7.62	6.00	6.75	.24	13/16	5/8

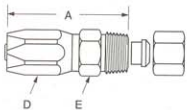
Air Brake Connection
 (Hose to Copper/ Nylon Tubing)
 (For 150 PSI Air Pressure Max.)


HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR		HOLE DIA.	HEX D	HEX E
				A				
13/32	3/8	24708B-Y56	17/32-24	2.36	1.25	.361	15/16	7/8
1/2	1/2	24710B-Y58	11/16-20	2.66	1.38	.453	1-1/8	7/8
1/2	5/8	24710B-Y60	13/16-18	2.72	1.44	.453	1-1/8	7/8
5/8	3/4	24712B-Y62	1-18	3.14	1.56	.549	1-1/4	1

(Nut and Sleeve not included.)

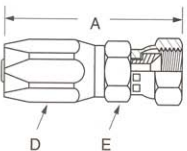
HOSE TO COPPERTUBING
HOSE TO NYLONTUBING

TUBE SIZE	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT	CATALOG NUMBER INSERT
3/8	1360x6	1361x6	1460x6	1461x6	1484x6
1/2	1360x8	1361x8	1460x8	1461x8	1484x8
5/8	1360x10	1361x10	1460x10	1461x10	1484x10
3/4	1360x12	1361x12	1460x12	1461x12	1484x12

Flareless Tube Rigid
Ermeto® 7000 Series
 (With Nut and Sleeve)


HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR		HOLE DIA.	HEX D	HEX E
				A				
5/16	1/4	24706N-754	7/16-20	2.02	1.13	.20	13/16	5/8
5/16	5/16	24706N-755	1/2-20	1.96	1.13	.23	13/16	5/8
5/16	3/8	24706N-756	9/16-18	1.98	1.13	.28	13/16	11/16
5/16	1/2	24706N-758	3/4-16	2.12	1.25	.28	13/16	13/16

(For replacement Nuts and Sleeves, see page 299.)

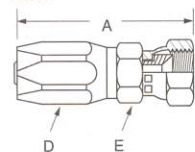
JIC 37° Female Swivel
 (Exceptions Noted, Refer to
 Footnotes)


HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	HOSE CUT-OFF FACTOR		HOLE DIA.	HEX D	HEX E
				A				
3/16	1/4	24704N-604 ^a	7/16-20	2.01	1.31	.13	5/8	9/16
1/4	5/16	24705N-605 ^a	1/2-20	2.19	1.50	.18	11/16	5/8
5/16	1/4	24706N-604 ^a	7/16-20	2.19	1.31	.17	13/16	9/16
5/16	5/16	24706N-605 ^a	1/2-20	2.38	1.50	.25	13/16	5/8
5/16	3/8	24706N-606	9/16-18	2.35	1.50	.25	13/16	11/16
5/16	1/2	24706N-608 ^a	3/4-16	2.45	1.56	.39	13/16	7/8
13/32	1/2	24708N-608 ^a	3/4-16	2.82	1.75	.36	15/16	7/8
1/2	1/2	24710N-608 ^a	3/4-16	3.04	1.75	.39	1-1/8	7/8
1/2	5/8	24710N-610 ^a	7/8-14	3.04	1.75	.45	1-1/8	1
5/8	3/4	24712N-612	1-1/16-12	3.46	1.94	.55	1-1/4	1-1/4
7/8	1	24716N-616	1-5/16-12	3.21	2.00	.81	1-7/16	1-1/2

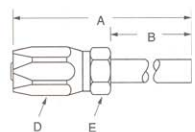
†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

^a Swivel nuts are universal – both SAE 45° and 37° connections.

†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

SAE 45° Flare Female Swivel


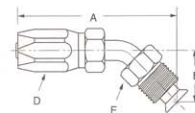
HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX D	HEX F
5/16	3/8	24706N-406	5/8-18	2.28	1.38	.25	13/16	3/4
13/32	3/8	24708N-406	5/8-18	2.65	1.56	.28	15/16	3/4
5/8	3/4	24712N-412	1-1/16-14	3.54	2.00	.55	1-1/4	1-1/4

Straight Tube - Extended


HOSE ID	TUBE SIZE	CATALOG NUMBER	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX D	HEX E
3/16	1/4	24704N-T54	5.22	3.75	4.50	.12	5/8	1/2
1/4	5/16	24705N-T55	6.33	4.80	5.56	.18	11/16	1/2
5/16	3/8	24706N-T56	7.42	5.80	6.50	.25	13/16	1/2
13/32	1/2	24708N-T58	8.78	6.69	7.63	.36	15/16	3/4
1/2	5/8	24710N-T60	9.91	7.69	8.63	.45	1-1/8	7/8

HOSE TO COPPERTUBING
HOSE TO NYLON TUBING

TUBE SIZE	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT	CATALOG NUMBER SLEEVE	CATALOG NUMBER NUT	CATALOG NUMBER INSERT
3/8	1360x6	1361x6	1460x6	1461x6	1484x6
1/2	1360x8	1361x8	1460x8	1461x8	1484x8
5/8	1360x10	1361x10	1460x10	1461x10	1484x10
3/4	1360x12	1361x12	1460x12	1461x12	1484x12

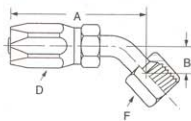
**Inverted Male Swivel
45° Tube Elbow**


HOSE ID	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR	HOLE DIA.	HEX D	HEX F
1/4	5/16	24705N-E45	1/2-20	3.42	1.14	2.63	.18	11/16	1/2

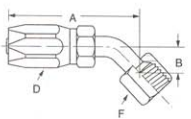
**Field Attachable
247 'N' Series**

†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

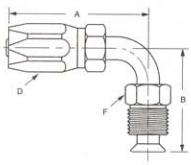
^a Swivel nuts are universal – both SAE 45° and 37° connections.

**JIC 37° Female Swivel 45°
Tube Elbow**
(Exceptions Noted for 45° Flare,
Refer to Footnotes)


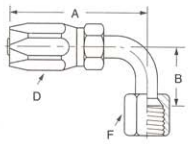
HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	24704N-684 ^a	7/16-20	2.45	.33	1.75	.12	5/8	9/16
1/4	5/16	24705N-685 ^a	1/2-20	2.60	.36	1.88	.18	11/16	5/8
5/16	3/8	24706N-686	9/16-18	2.78	.39	1.88	.25	13/16	11/16
13/32	1/2	24708N-688 ^a	3/4-16	3.46	.55	2.31	.33	15/16	7/8
1/2	5/8	24710N-690 ^a	7/8-14	3.86	.63	2.63	.45	1-1/8	1
5/8	3/4	24712N-692	1-1/16-12	4.39	.78	2.88	.55	1-1/4	1-1/4
7/8	1	24716N-696	1-5/16-12	5.21	1.10	3.94	.76	1-7/16	1-7/16

**SAE 45° Female Swivel 45°
Tube Elbow**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
5/16	1/4	24706N-484	7/16-20	2.61	.33	1.75	.25	13/16	5/8
5/16	3/8	24706N-486	5/8-18	2.82	.39	1.94	.25	13/16	3/4
5/8	3/4	24712N-492	1-1/16-14	4.45	.78	2.94	.55	1-1/4	1-1/4

**Inverted Male Swivel
90° Tube Elbow**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	24704N-E04	7/16-24	2.26	1.36	1.56	.18	5/8	7/16
1/4	5/16	24705N-E05	1/2-20	2.59	1.61	1.88	.24	11/16	1/2
5/16	1/4	24706N-E04	7/16-24	2.41	1.36	1.50	.18	7/8	7/16
5/16	5/16	24706N-E05	1/2-20	2.74	1.61	1.88	.24	7/8	1/2
5/16	3/8	24706N-E06	5/8-18	3.03	1.97	2.13	.30	7/8	5/8

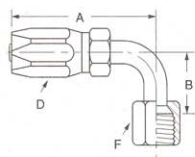
**JIC 37° Female Swivel 90°
Tube Elbow**
(Exceptions Noted, Refer to
Footnotes)


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	24704N-664 ^a	7/16-20	2.28	.68	1.50	.12	5/8	9/16
1/4	5/16	24705N-665 ^a	1/2-20	2.60	.77	1.88	.18	11/16	5/8
5/16	3/8	24706N-666	9/16-18	2.78	.85	2.88	.25	13/16	11/16
13/32	1/2	24708N-668 ^a	3/4-16	3.20	1.09	2.13	.36	15/16	7/8
1/2	1/2	24710N-668 ^a	3/4-16	3.45	1.09	2.13	.45	15/16	7/8
1/2	5/8	24710N-670 ^a	7/8-14	3.63	1.23	2.50	.45	1-1/8	1
5/8	3/4	24712N-672	1-1/16-12	4.29	1.82	2.81	.55	1-1/4	1-1/4
7/8	1	24716N-676	1-5/16-12	4.51	2.14	2.81	.81	1-7/16	1-1/2

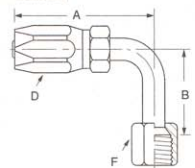
**Field Attachable
247 'N' Series**

†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

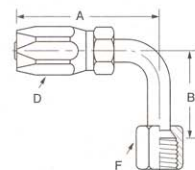
‡ Swivel nuts are universal – both SAE 45° and 37° connections.

**SAE 45° Female Swivel 90°
Tube Elbow**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
5/16	3/8	24706N-466	5/8-18	2.74	.85	1.88	.25	13/16	3/4
5/8	3/4	24712N-472	1-1/16-14	4.33	1.82	2.75	.55	1-1/4	1-1/4

**JIC 37° Female Swivel
Long Drop 90° Tube Elbow
(Exceptions Noted, Refer to
Footnotes)**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
3/16	1/4	24704N-644 [‡]	7/16-20	2.35	1.80	1.69	.15	5/8	9/16
1/4	5/16	24705N-645 [‡]	1/2-20	2.54	1.80	1.88	.21	11/16	5/8
5/16	3/8	24706N-646	9/16-18	2.83	2.18	2.00	.24	13/16	11/16
13/32	1/2	24708N-648 [‡]	3/4-16	3.31	2.43	2.25	.33	15/16	7/8
1/2	5/8	24710N-650 [‡]	7/8-14	3.56	2.57	2.31	.46	1-1/8	1
5/8	3/4	24712N-652	1-1/16-12	4.43	3.73	3.00	.58	1-1/4	1-1/4
7/8	1	24716N-656	1-5/16-12	4.39	4.33	3.19	.76	1-7/16	1-1/2

**SAE 45° Female Swivel
Long Drop 90° Tube Elbow**


HOSE I.D.	TUBE SIZE	CATALOG NUMBER	THREAD SIZE	A	B	HOSE CUT-OFF FACTOR†	HOLE DIA.	HEX D	HEX F
5/16	1/4	24706N-444	7/16-20	2.54	1.80	1.63	.15	13/16	5/8
5/16	3/8	24706N-446	5/8-18	2.82	2.18	1.88	.24	13/16	3/4
5/8	3/4	24712N-452	1-1/16-14	4.39	3.73	2.81	.58	1-1/4	1-1/4