

# Protective Sleeving for Rubber & Teflon® Hose Assemblies

## Fire Resistant Sleeves



(AE102)

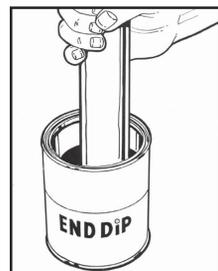
Sleeving used to meet the fire resistance requirements of FAATSO-C53a or TSO-C75. AE102/624 firesleeve, identified by its orange-colored outer surface, has a continuous operating temperature range of -65°F to +450°F (-54°C to + 232°C).

### AE102/624 Sleeve Data

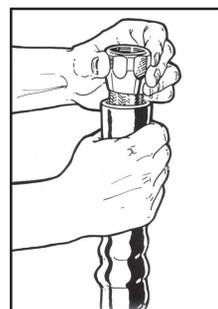
Sleeve Dash Size	Sleeve I.D.	Wall Thickness	Weight lbs./kg per ft.
-7	.44/11.1	.125/3.1	.104/.047
-8	.50/12.7	.125/3.1	.112/.050
-9	.56/14.2	.125/3.1	.122/.055
-10	.62/15.7	.125/3.1	.142/.064
-11	.69/17.5	.125/3.1	.158/.071
-12	.75/19.0	.125/3.1	.166/.075
-13	.81/20.5	.125/3.1	.175/.079
-14	.88/22.3	.125/3.1	.187/.084
-16	1.00/25.4	.125/3.1	.195/.088
-20	1.25/31.7	.125/3.1	.248/.112
-22	1.38/35.0	.125/3.1	.286/.129
-24	1.50/38.0	.125/3.1	.307/.139
-26	1.62/41.1	.125/3.1	.325/.147
-28	1.75/44.4	.125/3.1	.344/.156
-30	1.88/47.7	.125/3.1	.366/.166
-38	2.38/60.4	.125/3.1	.463/.210

Dimensions: inches/mm

### Sleeve Installation Procedures

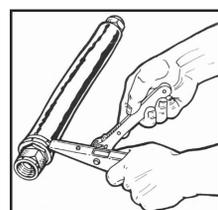


**STEP 1**  
Cut the sleeve to the required length. Seal both ends by dipping into Eaton's Aeroquip brand End Dip approximately 3/4 inch. Allow to dry.



**STEP 2**  
Assemble one end fitting. Slide the firesleeve over the hose. Assemble the second end fitting. It may be necessary to "roll" or "cuff" one or both ends of the firesleeve in order to assemble the second end fitting on short assemblies.

**STEP 3**  
Inspect the assembly. All fractures of the rubberized exterior and of the sealant coating should be brushed with End Dip sealant.



**STEP 4**  
Securely clamp both ends. The clamp should be positioned as illustrated. Tightness of the clamp should not cause deformation of the fitting or bore of the hose, or cause fractures, cuts to the sealant surface.



(AE138)

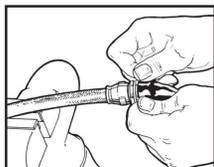
A tough, synthetic rubber scuff cover which is fuel, oil and ozone resistant. Protects against abrasion and scuffing in ground-servicing or airborne applications through a temperature range of -65°F to +250°F (-54°C to + 121°C).

### AE138 Sleeve Data

Sleeve Dash Size	Sleeve I.D.	Wall Thickness	Weight lbs./kg per ft.
-2	.27/6.8	.035/.889	.020/.009
-4	.33/8.3	.035/.889	.024/.010
-6	.39/9.9	.035/.889	.029/.013
-8	.45/11.4	.035/.889	.035/.015
-10	.48/12.1	.040/1.01	.043/.019
-12	.56/14.2	.040/1.01	.047/.021
-14	.62/15.7	.040/1.01	.051/.023
-16	.67/17.0	.040/1.01	.055/.024
-18	.72/18.2	.050/1.27	.070/.031
-22	.84/21.3	.050/1.27	.086/.039
-26	1.03/26.1	.050/1.27	.102/.046
-28	1.19/30.2	.050/1.27	.123/.055
-30	1.30/33.0	.060/1.52	.154/.069
-34	1.47/33.3	.070/1.77	.200/.090

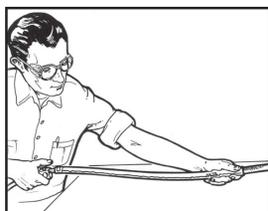
Dimensions: inches/mm

### Sleeve Installation Procedures



**STEP 1**  
Cut the sleeve to length. The cut length should be .02 inch longer per inch than the length required after assembly to compensate for shortening caused by the stretch fit.

**STEP 2**  
Stretch one end of the sleeve over the hose assembly as illustrated.



**STEP 3**  
Apply low pressure compressed air (10psi max.) at the free end of the sleeve. This will expand the sleeve, and the sleeve can be gently pulled over the assembly.



**STEP 4**  
The sleeve can be repositioned after assembly by applying compressed air between the sleeve and the hose. This will also release any longitudinal stress on the sleeve.

## Abrasion Resistant Sleeves



(AE251)

This heat-shrinkable Polyolefin tubing is recommended where a skin-tight fit is desired. The sleeve is positioned between the end fittings and shrunk onto the hose by controlled heat. Temperature range is -65°F to +275°F (-54°C to +135°C).

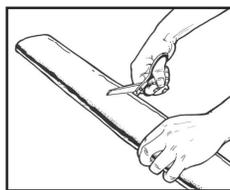
### AE251 Sleeve Data

Sleeve Dash Size	Sleeve I.D.	Wall Thickness	Weight lbs./kg per ft.
-1	.38/9.6	.030/.761	.022/.009
-2	.38/9.6	.030/.761	.022/.009
-3	.50/12.7	.035/.889	.033/.014
-4	.50/12.7	.035/.889	.033/.014
-5	.75/19.0	.040/1.01	.056/.025
-7	1.00/25.4	.045/1.42	.083/.037
-8	1.00/25.4	.045/1.42	.083/.037
-9	1.50/38.0	.050/1.27	.137/.062
-11	2.00/50.8	.055/1.39	.200/.090
-13	.25/6.35	.025/.635	.012/.005

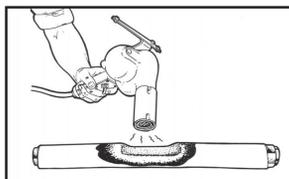
Dimensions: inches/mm

Dimensions: inches/mm

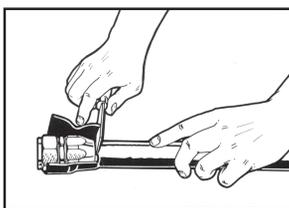
### Sleeve Installation Procedures



**STEP 1**  
Cut the sleeve to length. Cut slightly longer than required to compensate for longitudinal shrinkage



**STEP 2**  
Heat sleeve and hose assembly at 265°F. to 275°F. until satisfactory shrinkage occurs. DO NOT heat longer than 20 minutes.



**STEP 3**  
Excess sleeve length should be trimmed with a sharp knife, taking care not to damage the wire reinforcement.



(AE208)

Lightweight nylon protective coil resists abrasion at temperatures from -65°F to +200°F (-54°C to +93°C), and will retain its shape when flexed through a temperature range of -65°F to +250°F (-54°C to +121°C). The coil is wound, or spirally-wrapped, around the hose. The natural gaps between coils reduce the possibility of entrapping moisture. Recommended where hose assemblies are exposed to moisture, as well as abrasion.

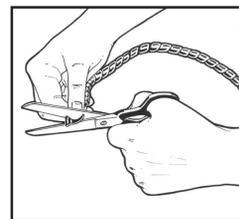
### AE208 Sleeve Data

Sleeve Dash Size	Sleeve I.D.	Wall Thickness	Weight lbs./kg per ft.
-4	.20/5.0	.023/.584	.008/.003
-10	.44/11.1	.032/.812	.023/.010

Dimensions: inches/mm

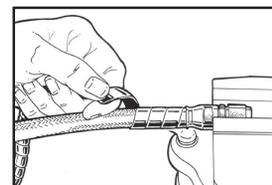
Dimensions: inches/mm

### Sleeve Installation Procedures

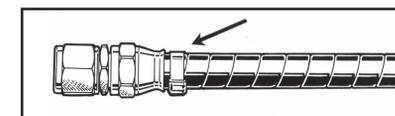


**STEP 1**  
Assemble both end fittings and place one end in vise.

**STEP 2**  
Cut coil to length.



**STEP 3**  
Wrap the coil onto the hose as illustrated.



**STEP 4**  
Clamp both ends to hold coil securely in place.



(AE506)

This extruded, translucent, seamless FEP Teflon tube is unaffected by fuels, lube oils, coolants or solvents used in aircraft service. Recommended for abrasion protection in high temperature applications. Temperature range: -65°F to +400°F (-54°C to + 204°C).

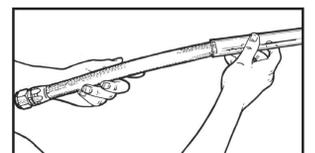
### AE506 Sleeve Data

Sleeve Dash Size	Sleeve I.D.	Wall Thickness	Weight lbs./kg per ft.
-7	.29/7.3	.018/.457	.014/.006
-8	.36/9.1	.018/.457	.017/.007
-9	.42/10.6	.018/.457	.020/.009
-10	.48/12.1	.018/.457	.023/.010
-11	.52/13.2	.018/.457	.025/.011
-13	.60/15.2	.018/.457	.028/.012
-14	.70/17.7	.018/.457	.033/.014
-15	.76/19.3	.018/.457	.034/.015
-16	.83/21.0	.018/.457	.039/.017
-17	.94/23.8	.018/.457	.044/.019
-19	1.16/29.4	.018/.457	.054/.024
-20	1.40/35.5	.018/.457	.066/.029
-21	1.73/43.9	.018/.457	.080/.036

Dimensions: inches/mm

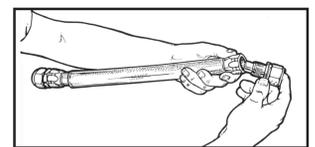
Dimensions: inches/mm

### Sleeve Installation Procedures



**STEP 1**  
Assemble one end fitting.

**STEP 2**  
Cut the sleeve to length and slide over the end of the hose.



**STEP 3**  
Assemble second end fitting.

- F-2636 : Hand Clamping Tool
- AE13702-003: Firesleeve End Dip/Sealant for AE102/624 Firesleeve
- 900591B: Clamp
- F-2637: Pneumatic Clamping Tool

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