



## Synflex Eclipse Air Brake Tubing

Product Details



### Synflex Eclipse Air Brake Tubing Overshadows the Competition

#### Applications

- Truck Air Brake Systems
- Trailer Air Brake Systems
- Auxiliary Air Systems
- Formed Tubes
- Formed and Straight Air Brake Harness Assemblies

#### Construction

- Distinctive patented construction (Pat. No. 6,670,004)
- 100% polyamide construction with polyester yarn reinforcement
- UV Stabilized
- Thermoformable
- Available in standard and custom colors
- Available in all standard sizes

#### Temperature Range

Synflex® Eclipse™ Air Brake Tubing is designed for a wider operating temperature range than traditional nylon tubing: -65°F to 200°F (-54°C to 93°C).

#### Standard Compliance

Meets SAE J844, J1131, J2494-3 and DOT-FMVSS 106

#### Features / Benefits

- **Superior Abrasion Resistance**  
Synflex Eclipse significantly outperforms rubber and Nylon11. As a result, Synflex Eclipse tubing has a longer service life in the harshest environments.
- **Enhanced Flexibility and Extension**  
Synflex Eclipse tubing has improved flexibility over other nylon tubing. This translates into easier installation and handling at low temperatures.
- **Flow Performance**  
With improved flow performance over traditional rubber and nylon, Synflex Eclipse Air Brake Tubing enhances brake timing performance.
- **Ease of Cutting**  
The unique construction of Synflex Eclipse tubing promotes burr free cuts, which yields improved assemblies with either push-to-connect or compression fittings.



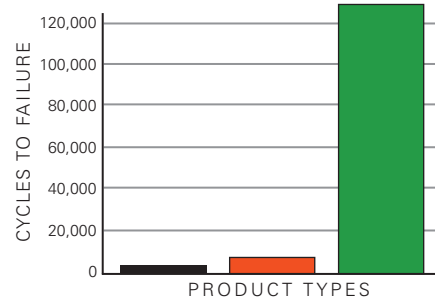
# Synflex Eclipse Air Brake Tubing

## Performance Comparison Data

### Abrasion Resistance Test Results – Synflex Eclipse significantly outperforms rubber and Nylon11



Rubber    Synflex Eclipse    Nylon11



■ Rubber - FAILED @ 3,050 cycles  
 ■ PA11 - FAILED @ 8,225 cycles  
 ■ Synflex Eclipse - NO FAILURE @125,000+ cycles

## Product Specifications

### Synflex Eclipse Type A Air Brake Tubing

# PART NUMBER	NOMINAL O.D.		NOMINAL I.D.		MINIMUM BEND RADIUS		NOMINAL WALL THICKNESS		MINIMUM BURST PRESSURE		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	kpa	psi	100m KG	100ft LBS
4245-022	3.18	1/8	2.01	.079	6.35	1/4	0.58	.023	6,900	1,000	.49	.33
4245-025	3.96	5/32	2.34	.092	12.70	1/2	0.79	.031	8,300	1,200	.83	.56
4245-033	4.77	3/16	2.97	.117	19.05	3/4	0.89	.035	8,300	1,200	1.06	.71
4245-041	6.35	1/4	4.32	.170	25.40	1	1.02	.040	8,300	1,200	1.77	1.19
4245-052	7.95	5/16	5.89	.232	28.58	1-1/8	1.02	.040	6,900	1,000	2.29	1.54

### Synflex Eclipse Type B Air Brake Tubing

# PART NUMBER	NOMINAL O.D.		NOMINAL I.D.		MINIMUM BEND RADIUS		NOMINAL WALL THICKNESS		MINIMUM BURST PRESSURE		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	kpa	psi	100m KG	100ft LBS
3270-06	9.53	3/8	6.38	.251	38.10	1.5	1.57	.062	9,700	1,400	4.2	2.8
3270-08	12.70	1/2	9.55	.376	50.80	2.0	1.57	.062	6,600	950	5.8	3.8
3270-10	15.88	5/8	11.20	.441	63.50	2.5	2.34	.092	6,200	900	10.4	7.0
3270-12	19.05	3/4	14.38	.566	76.20	3.0	2.34	.092	5,500	800	12.8	8.6

#### Eaton

Hydraulics Operations USA  
 115 Lena Dr.  
 Aurora, OH 44202  
 USA  
 Tel: 330-562-9111 / 800-837-1467  
 Fax: 330-274-0473

#### Eaton

Hydraulics Operations USA  
 14615 Lone Oak Road  
 Eden Prairie, MN 55344  
 USA  
 Tel: 952-937-9800  
 Fax: 952-294-7722  
 www.hydraulics.eaton.com

#### Eaton

Hydraulics Operations Europe  
 Route de la Longeraie 7  
 1110 Morges  
 Switzerland  
 Tel: +41 (0) 21 811 4600  
 Fax: +41 (0) 21 811 4601

#### Eaton

Hydraulic Operations Asia Pacific  
 11th Floor Hong Kong New World Tower  
 300 Huaihai Zhong Road  
 Shanghai 200021  
 China  
 Tel: 86-21-6387-9988  
 Fax: 86-21-6335-3912

