

## Flexible Sprinkler Drops

### Braided Flexible Sprinkler Connection Data Sheet

**EASYFLEX Flexible Sprinkler Drops are designed to significantly reduce labor and installation costs. By eliminating the need for pipe cutting and midline connections, you save valuable time and money.**

Easyflex flexible sprinkler connections offer braided and unbraided flexible hoses in 2', 3', 4', 5', and 6' with top loading or front loading brackets for variety of ceiling and wall applications: T-Bars, metal studs, hat channels, wood beams, concrete sidewalls, and more. The system is qualified to be installed at commercial, hotel, retail, restaurants, cultural, entertainment, educational, government, healthcare, and religious buildings.

#### EASYFLEX Flexible Sprinkler Drops Appliance Standards

##### National Fire Protection Association (NFPA):

- NFPA 13: Standard for the Installation of Sprinkler Systems
- NFPA 13D: Standard for the Installation of Sprinkler Systems in One and Two-Family Dwellings and Manufactured Homes
- NFPA 13R: Standard for Installation of Sprinkler Systems in residential Occupancies up to and including four stories in height
- NFPA 13 Section 9.2.1.3.3.3 : No hangers are required for flexible connections as long as the length does not exceed 6ft.

##### American Society for Testing and Methods (ASTM):

- ASTM C635: Standard specifications for the manufacture, performance, and testing of metal suspension systems for acoustical tile and lay-in panel ceilings
- ASTM C636: Standard practice for installation of metal ceiling suspension systems for acoustical tile and lay-in panels

##### Factory Mutual (FM), FM Class No, 1637:

- Approved standard for flexible sprinkler hose with threaded end fittings

##### Underwriter's Laboratories, Inc. (UL), UL 2443:

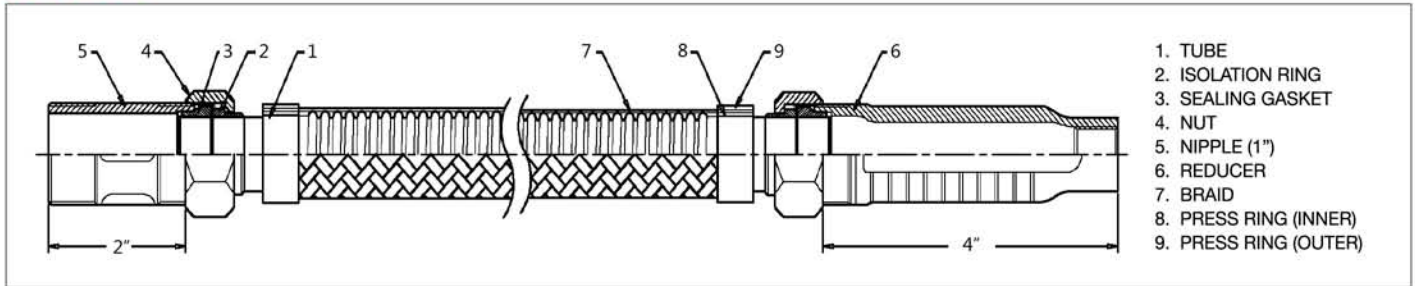
- Standard for flexible sprinkler hose with fittings for fire protection service

##### International Building Code (IBC) Section 1621 / American Society of Civil Engineers (ASCE) 7 9.6.2.6.2 & 9.6.2.6.2.2:

- Flexible Sprinkler Connections are an alternative solution to install without seismic escutcheons

Job Name :	Engineer / Architect :
Job Location :	Wholesaler :
Submittal Date :	Contractor :

**BRAIDED FLEXIBLE HOSE**



**SPECIFICATIONS**

Lengths Available	24", 36", 48", 60" and 72"
Outlet	1/2" or 3/4"
Hose Type	Braided
Max. Ambient Temperature Rating	225°F
Max. Working Pressure Rating	175 psig

Hose	Stainless Steel 304
Nut & Nipple	Zinc-Plated Steel
Sealing Gasket / Isolation Ring	EPDM/ NYLON

Minimum Bend Radius	4" (UL/ULC) and 8" (FM) * DO NOT bend within 2.52 inches from connection nuts	
Connection	Inlet	1"NPT
	Outlet	1/2" or 3/4"NPT

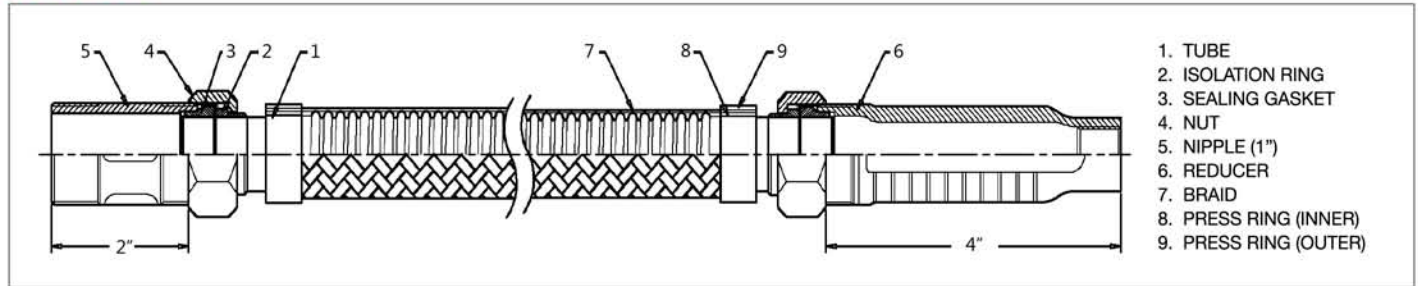
\* No hangers and seismic escutcheons required  
 \* Required torque to assemble reducer and nipple with the flexible hose : 50 ft-lb

**FRICITION LOSS DATA**  
 EFB Series Braided Hose  
 TBS Bracket Systems

Length (in.)	Outlet Connection	K-Factor	Max. Number of 90° Bends	Equivalent Length of 1 in. Schedule 40 Pipe, ft.
24"	1/2"	5.6	1	18
	3/4"	8.0	1	18
36"	1/2"	5.6	2	31
	3/4"	8.0	2	34
48"	1/2"	5.6	3	48
	3/4"	8.0	3	51
60"	1/2"	5.6	4	60
	3/4"	8.0	4	65
72"	1/2"	5.6	4	71
	3/4"	8.0	4	72

\* UL: 4" minimum bend radius, where C=120

**BRAIDED FLEXIBLE HOSE**



- 1. TUBE
- 2. ISOLATION RING
- 3. SEALING GASKET
- 4. NUT
- 5. NIPPLE (1")
- 6. REDUCER
- 7. BRAID
- 8. PRESS RING (INNER)
- 9. PRESS RING (OUTER)

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Hose	Stainless Steel 304
Nut & Nipple	Zinc-Plated Steel
Sealing Gasket / Isolation Ring	EPDM/ NYLON

Minimum Bend Radius	4" (UL/ULC) and 8" (FM) * DO NOT bend within 2.52 inches from connection nuts	
Connection	Inlet	1"NPT
	Outlet	1/2" or 3/4"NPT

\* No hangers and seismic escutcheons required  
 \* Required torque to assemble reducer and nipple with the flexible hose : 50 ft-lb

**FM APPROVED** **FRICITION LOSS DATA**  
 EFB Series Braided Hose  
 OGSB, TBS Bracket Systems

Length (in.)	Outlet Connection	K-Factor	Max. Number of 90° Bends	Equivalent Length of 1 in. Schedule 40 Pipe, ft.
24"	1/2"	5.6	1	27.0
	3/4"	8.0	1	18.6
36"	1/2"	5.6	2	37.4
	3/4"	8.0	2	30.4
48"	1/2"	5.6	3	54.9
	3/4"	8.0	3	48.3
60"	1/2"	5.6	4	72.5
	3/4"	8.0	4	66.2
72"	1/2"	5.6	4	90.5
	3/4"	8.0	4	83.0

\* FM: 8" minimum bend radius, where C=120