4F Link-Seal® Devices

Environmental Seal for Conduit Passing Through Concrete Walls, Floors, or Ceilings

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Link-Seal Devices Applications:

 Eaton's Crouse-Hinds Link-Seal® is the quick, economical way to seal around conduit in concrete walls, floors and casings. Link-Seal is a modular mechanical seal used for any type of penetration.

Features and Benefits:

- Saves time and money Link-Seal installs in up to 75% less time than competition products
- Positive Hydrostatic Sealing properly installed, Link-Seal is rated at 20 psig (40 feet of head), which exceeds the performance requirements of most applications
- Environment Seals Link-Seal environmental seal is designed for long life and use as a permanent seal. Seal elements are specially compounded to resist aging, ozone, sunlight, water and a wide range of chemicals
- Fire Seals for fire protection in floor and wall penetrations Link-Seal is Factory Mutual approved
- Corrosion protection where installation against galvanic corrosion (or electrolysis) is required, Link-Seal provides complete separation pipe and casing. Metal-to-metal contact is eliminated
- Compensates for misalignment Link-Seal allows for some angular and off-center conduit conditions and still seals effectively
- Absorbs shock, sound and vibration this inherent benefit of Link-Seal helps reduce conduit failure due to fatigue and threaded connections

Standard Materials:

Rubber Seal Elements:
EPDM (Black) – Environmental Seals
Silicone (Grey) – Fire Seals

• Pressure Plates:

Glass Reinforced Nylon – Environmental Seals

Steel w/Zinc Dichromate Plate - Fire Seals

• Fasteners:

Carbon Steel, Zinc Dichromate Plate – Environmental Seals

316 Stainless Steel – Environmental with Option S316

Carbon Steel w/Zinc Dichromate - Fire Seals

Environmental Conduit Seal

Ordering Information:

It's easy. Locate the conduit size and type you are installing in the columns on the left. Then locate the seal and sleeve part numbers under the installation method you've selected. No sleeve is needed for cored or cast hole installation.

Cored or Cast Hole Method:

Note the appropriate hole diameter and select the seal part number. Example: For ³/₄" EMT conduit through a cored hole – Core a 2" diameter hole and install the conduit using Link-Seal part number I SA200-C-04

Sleeve Methods:

Select either the plastic or metal sleeve. Both types of sleeves are designed to be cast into concrete walls or floors. Sleeves are ordered separately. Remember to add the wall or floor thickness to the steel sleeve part number to insure the sleeve is provided in the proper length. Plastic sleeves are a standard 16 long and can be modified in the field.





Materials:

The standard product for environmental conduit seals is made from EPDM supplied with steel bolts and nuts with a zinc dichromate finish. These seals are suitable for use in water, direct ground burial and atmospheric conditions. They provide electrical insulation where cathodic protection is required. EPDM rubber is resistant to most inorganic acids and alkalis, and some organic chemicals (acetone, alcohol, ketones).

Options:

To order the standard product with 316 stainless steel bolts and nuts, for corrosive environments, replace the "C" in the seal catalog number with "S316". For example, a ½" seal for rigid steel conduit for a cored hole is an LSA200-C-04; ordered with stainless steel bolts and nuts the catalog number becomes LSA200-S316-04.

Link-Seal® Devices

Environmental Seal for Conduit passing through Concrete Walls, Floors or Ceilings

Ordering Information - Environmental Conduit Seal

Conduit Nominal Size	Conduit Type*	Conduit Actual O.D. (inches)	Cast/Cored Hole Dia. (inches)	Seal for Cast/Cored Hole Cat. #	Plastic Sleeve Cat. #	Seal for Plastic Sleeve Cat. #	Steel Sleeve Cat. #	Seal for Steel Sleeve Cat. #
1/2" 1/2" 1/2" 1/2"	EMT	.706	2.000	LSA275 C 04	LS CS 2 16	LSA200 C 04	WS2 15 ①	LSA275 C 04
	IMC	.815	2.000	LSA200 C 04	LS CS 2 16	LSA200 C 04	WS2 21 ①	LSA200 C 04
	RSC	.840	2.000	LSA200 C 04	LS CS 2 16	LSA200 C 04	WS2 21 ①	LSA200 C 04
3/ ₄ "	EMT	.922	2.000	LSA200 C 04	LS CS 3 16	LSA315 C 04	WS2 15 ①	LSA200 C 04
3/ ₄ "	IMC	1.029	2.500	LSA275 C 06	LS CS 3 16	LSA315 C 04	WS2 15 ①	LSA200 C 04
3/ ₄ "	RSC	1.050	2.500	LSA275 C 06	LS CS 3 16	LSA315 C 04	WS2.5 20 ①	LSA275 C 06
1"	EMT	1.163	2.500	LSA315 C 04	LS CS 3 16	LSA300 C 04	WS2.5 20 ①	LSA275 C 06
1"	IMC	1.290	3.000	LSA300 C 04	LS CS 3 16	LSA300 C 04	WS2.5 10 ①	LSA275 C 06
1"	RSC	1.315	3.000	LSA300 C 04	LS CS 3 16	LSA300 C 04	WS2.5 20 ①	LSA200 C 05
1½"	EMT	1.510	3.000	LSA300 C 04	LS CS 3.5 16	LSA315 C 05	WS3.5 22 ①	LSA315 C 05
1½"	IMC	1.638	3.000	LSA275 C 07	LS CS 3.5 16	LSA300 C 05	WS3.5 22 ①	LSA315 C 05
1½"	RSC	1.660	3.000	LSA275 C 07	LS CS 3 16	LSA200 C 06	WS3.5 22 ①	LSA315 C 05
1½"	EMT	1.740	3.500	LSA315 C 05	LS CS 3.5 16	LSA300 C 05	WS3.5 32 ①	LSA315 C 05
1½"	IMC	1.883	3.500	LSA300 C 05	LS CS 3.5 16	LSA275 C 08	WS3.5 22 ①	LSA300 C 05
1½"	RSC	1.900	3.500	LSA300 C 05	LS CS 3.5 16	LSA275 C 08	WS3.5 22 ①	LSA300 C 05
2"	EMT	2.197	4.000	LSA315 C 06	LS CS 4 16	LSA315 C 06	WS4 23 ①	LSA315 C 06
2"	IMC	2.360	4.000	LSA300 C 06	LS CS 4 16	LSA300 C 06	WS4 23 ①	LSA300 C 06
2"	RSC	2.375	4.000	LSA300 C 06	LS CS 4 16	LSA300 C 06	WS4 23 ①	LSA300 C 06
2 ¹ / ₂ "	EMT/RSC	2.875	4.000	LSA200 C 09	LS CS 4 16	LSA200 C 09	WS4 23 ①	LSA200 C 09
2 ¹ / ₂ "	IMC	2.857	4.000	LSA200 C 09	LS CS 4 16	LSA200 C 09	WS4 23 ①	LSA200 C 09
3"	EMT/RSC	3.500	5.000	LSA300 C 08	LS CS 5 16	LSA300 C 08	WS5 25 ①	LSA300 C 08
3"	IMC	3.476	5.000	LSA300 C 08	LS CS 5 16	LSA300 C 08	WS5 25 ①	LSA300 C 08
3 ¹ / ₂ "	EMT/RSC	4.000	6.000	LSA325 C 05	LS CS 6 16	LSA325 C 05	WS6 28 ①	LSA325 C 05
3 ¹ / ₂ "	IMC	3.971	6.000	LSA325 C 05	LS CS 6 16	LSA325 C 05	WS6 28 ①	LSA325 C 05
4"	EMT/RSC	4.500	6.000	LSA300 C 10	LS CS 6 16	LSA300 C 10	WS6 28 ①	LSA300 C 10
4"	IMC	4.466	6.000	LSA300 C 10	LS CS 6 16	LSA300 C 10	WS6 28 ①	LSA300 C 10
5"	RSC	5.563	8.000	LSA425 C 06	LS CS 8 16	LSA425 C 06	WS8 32 ①	LSA425 C 06
6"	RSC	6.625	10.000	LSA475 C 10	LS CS 10 16	LSA475 C 10	WS8 18 ①	LSA300 C 15

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^{*}EMT – Electrical Metallic Tubing; IMC – Intermediate Metal Conduit; RSC – Rigid Steel Conduit

①Specify length of steel sleeve in inches. Example: S6-28-08 is 8" long. All plastic sleeves come in standard 16" lengths and can be field cut to desired length.

The last two digits of the seal part number indicate the number of links (and the number of bolts) per seal.

Link-Seal® Devices 4F

Fire Seal for Conduit passing through Concrete Walls, Floors or Ceilings

Fire Conduit Seal Ordering Information:

Locate the conduit size and type you are installing in the columns on the left. Then locate the seal and sleeve part number under the installation method you've selected. No sleeve is needed for cored or cast hole installation.

Cored or Cast Hole Method:

Note the appropriate hole diameter and select the seal part number. Example: For 3/4" EMT conduit through a cored hole -Core a 2" diameter hole and install the conduit using Link-Seal Part number LSA200-T-04.

Sleeve Methods:

Select the appropriate metal sleeve for the size and type of conduit being installed. The sleeve should be ordered separately. Remember to add the wall or floor thickness to the steel sleeve part number to insure the sleeve is provided in the proper length.

Materials:

The standard product for fire conduit seals is made from grey silicone supplied with steel bolts and nuts with a zinc dichromate finish. These seals are Factory Mutual approved for use as a 1-hour fire stop and can handle temperature extremes of -67°F to +400°F.

Options:

To order the fire seal for a 3-hour rating, replace the "T" in the seal catalog number with a "FS". For example, a 1/2" seal for rigid steel conduit for a cored hole is an LSA200-T-04; ordered with option FS the catalog number becomes LSA200-FS-04. A 3-hour fire seal can also be made by using two Model T's back-to-back. The Model FS is basically two Model T's back-to-back. In Model FS, a tie rod tightens both seals simultaneously - for use when only one side of an opening is accessible.

Fire Conduit Seal - Ordering Information

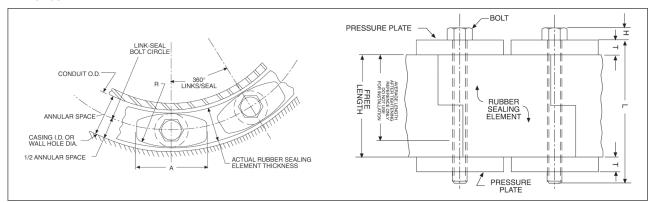
Conduit Nominal Size	Conduit Type*	Conduit Actual O.D. (inches)	Cast/Cored Hole Dia. (inches)	Seal for Cast/Cored Hole Cat. #	Steel Sleeve Cat. #	Seal for Steel Sleeve Cat. #
1/2"	EMT	0.706	2.000	LSA275 T 04	WS2 15 ①	LSA275 T 04
1/2"	IMC	0.815	2.000	LSA200 T 04	WS2 21 ①	LSA200 T 04
1/2"	RSC	0.840	2.000	LSA200 T 04	WS2 21 ①	LSA200 T 04
3/4"	EMT	0.922	2.000	LSA200 T 04	WS2 15 ①	LSA200 T 04
3/4"	IMC	1.029	2.500	LSA275 T 06	WS2 15 ①	LSA200 T 04
3/4"	RSC	1.050	2.500	LSA275 T 06	WS2.5 20 ①	LSA275 T 06
1"	EMT	1.163	3.000	LSA315 T 04	WS2.5 20 ①	LSA275 T 06
1"	IMC	1.290	3.000	LSA300 T 04	WS2.5 10 ①	LSA275 T 06
1"	RSC	1.315	3.000	LSA300 T 04	WS2.5 20 ①	LSA200 T 05
11/4"	EMT	1.510	3.000	LSA300 T 04	WS3.5 22 ①	LSA315 T 05
11/4"	IMC	1.638	3.000	LSA275 T 07	WS3.5 22 ①	LSA315 T 05
11/4"	RSC	1.660	3.000	LSA275 T 07	WS3.5 22 ①	LSA300 T 05
11/2"	EMT	1.740	3.500	LSA315 T 05	WS3.5 32 ①	LSA300 T 05
11/2"	IMC	1.883	3.500	LSA300 T 05	WS3.5 22 ①	LSA300 T 05
11/2"	RSC	1.900	3.500	LSA300 T 05	WS3.5 22 ①	LSA275 T 08
2"	EMT	2.197	4.000	LSA315 T 06	WS4 23 ①	LSA315 T 06
2"	IMC	2.360	4.000	LSA300 T 06	WS4 23 ①	LSA300 T 06
2"	RSC	2.375	4.000	LSA300 T 06	WS4 23 ①	LSA300 T 06
21/2"	EMT/RSC	2.875	4.000	LSA200 T 09	WS4 23 ①	LSA200 T 09
21/2"	IMC	2.857	4.000	LSA200 T 09	WS4 23 ①	LSA200 T 09
3"	EMT/RSC	3.500	5.000	LSA300 T 08	WS5 25 ①	LSA300 T 08
3"	IMC	3.476	5.000	LSA300 T 08	WS5 25 ①	LSA300 T 08
31/2"	EMT/RSC	4.000	6.000	LSA325 T 05	WS6 28 ①	LSA325 T 05
31/2"	IMC	3.971	6.000	LSA325 T 05	WS6 28 ①	LSA325 T 05
4"	EMT/RSC	4.500	6.000	LSA300 T 10	WS6 28 ①	LSA300 T 10
4"	IMC	4.466	6.000	LSA300 T 10	WS6 28 ①	LSA300 T 10
5"	RSC	5.563	8.000	LSA425 T 06	WS8 32 ①	LSA425 T 06
6"	RSC	6.625	10.000	LSA475 T 10	WS8 18 ①	LSA300 T 15

①Specify length of steel sleeve in inches. Example: WS6-28-08 is 8" long.
*EMT – Electrical Metallic Tubing; IMC – Intermediate Metal Conduit; RSC – Rigid Steel Conduit

The last two digits of the seal part number indicate the number of links (and the number of bolts) per seal.

Dimensions

In Inches:



Technical Information

	Rubber Sealing Element			Pressure Plate			Bolt			
Link-Seal Cat. #	Actual Thickness (inches)	Free Length (inches)	Avg. Length After Tightening (inches)	A (inches)	R (inches)	T (inches)	Hex Across Flats	H (inches)	Thread Size (inches)	L
LSA200 C	.478	13/4	13/8	11/6	21/4	5/16	M5 slotted hex	.180	M5	21/2
LSA275 C	.607	13/4	13/8	7/8	17/8	5/16	M5 slotted hex	.180	M5	21/2
LSA300 C	.687	21/2	2	11/2	21/2	7/16	1/2	7/32	5/16–5/18	31/2
LSA315 C	.807	21/2	2	17/16	21/2	7/16	1/2	7/32	5/16–5/18	31/2
LSA325 C	.875	3	23/8	31/8	2	1/2	1/2	7/32	5/16–5/18	4
LSA425 C	1.062	31/2	23/4	31/2	3	3/4	9/16	1/4	3/8-3/16	5
LSA475 C	1.562	31/2	23/4	31/2	31/2	1/2	9/16	1/4	3/8-3/16	41/2