



FLEXIBLE ELECTRICAL CONDUIT



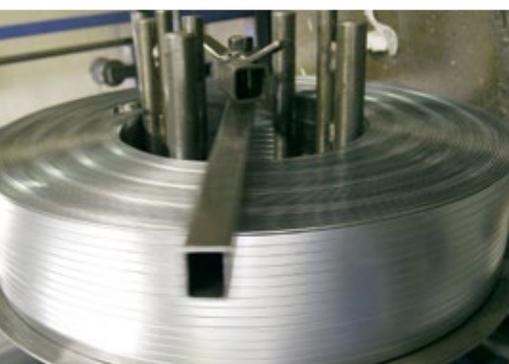
**electri-flex company**

Jacketed Metallic  
EMI / RFI Shielded  
Unjacketed Metallic  
Nonmetallic





# Leadership in flexible



Liqatite® by Electri-Flex has earned a global reputation for manufacturing innovation and product quality. The pages that follow detail the most diverse flexible electrical conduit line in the world, with respect to available sizes, types and colors. But Electri-Flex's real source of success has sprung from its partnership philosophy. This philosophy was best stated by H. W. "West" Kinander, Jr., former president and co-owner, shortly before his untimely death in 1991.

*"Quality, service, fair distributor margins and loyalty to one's business partners has been the theme since our company began. It will continue to be the benchmark by which our company will be judged. You have my word."*



—H. W. "West" Kinander, Jr.

# electrical conduit

## for over 60 years

### The Liqueatite Line

The Liqueatite line includes nearly 50 types of flexible electrical conduit for contractors, OEMs, industrial maintenance and repair (MRO), government, utility and export users. Most conduits are available as standard products, and Electri-Flex has the manufacturing capability to develop specialized products as they are needed by customers.

An innovator in the liquidtight conduit industry, Electri-Flex is also a leader in packaging improvements and manufacturing patents. The majority of production tools and methods used are unique in that they are developed and built by Electri-Flex in its own tool shop in Roselle, Illinois, USA.

### Quality Assurance

Quality control for Liqueatite is performed by all levels of employment. To assure a high degree of quality assurance, Electri-Flex utilizes a vertically integrated manufacturing and production system, with each step performed in-house by a team of experts.

Our Quality Assurance Program offers testing procedures from the time raw materials are received at the facility to when the finished conduit is packaged and readied for shipping. Each foot of conduit produced passes through a series of gauges to determine diameters. Actual physical appearance is also checked.

A Quality Control Inspector randomly collects samples of each product at various stages of production. Testing covers such characteristics as tension strength, crush, flexibility and flammability. Further testing is also conducted during unannounced visits by both UL and CSA inspectors.

### Distribution and Representative Partners

Electri-Flex's representatives and distributors are the leaders in the markets they serve. The partners who have made Electri-Flex an industry leader share these qualities:

- **Representatives** — High degree of integrity and impeccable business reputation, knowledge of the product and the customer, carry compatible lines to make customer and distributor calls more productive, and day-to-day involvement by the principal of the company. For a representative in your area, please visit [www.electriflex.com](http://www.electriflex.com)
- **Distributors** — Industrially oriented, sound relations with customers, solid reputation in the community and quality sales people.

We choose only top-performing distributors who have the ability to grow with us in the electrical industry.

### Marketing Support

Making the best product doesn't create success without exceptional sales, service

and marketing programs that meet the needs of representatives and distributors. Our sales support services include:

- Rep warehouse locations across the United States
- On-site 64,000-square-foot distribution center
- Shipments of stocked items within one to three days from consigned stock locations
- Responsive sales and customer service departments
- Effective advertising support program that produces qualified leads
- Referrals on inquiries within a distributor's territory
- Special "off-sheet" price quotations
- Training seminars
- Liberal catalog and sample policy

### A Close-knit Family Business

Electri-Flex was founded and is still owned by the Kinander family. The cultural focus is on high-quality products and services, with a strong sense of loyalty to Electri-Flex and its partners. We are dedicated to keeping this spirit of quality and loyalty alive within each employee. Electri-Flex's employees, representatives, distributors and customer partners continue to create the success Electri-Flex has enjoyed for more than 60 years.

### Industry Affiliations

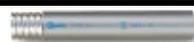
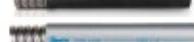
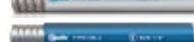
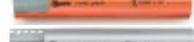


# Conduit Application Guide

	Conduit Type	Page	Flexibility				Metal Used	Plastic Used	High Mech. Strength	Listed for Direct Burial	Halogen-Free	Low Fire Hazard	Sunlight/UV Resistant	Accepts Standard Liquid-tight Fittings	Self-Extinguishing	EMI/RFI Shielding	Approval
			Continued Flexing	Small Bend Radius	Flexible	Pliable (Static)											
<b>JACKETED METALLIC</b>	TYPE LA	9			•		Steel	PVC	•	•			Best	•	•		UL SF CE
	TYPE LT	10		•	•		Steel	PVC					Good	•			CE
	TYPE EF	11		•	•		Steel	PVC					Good	•			CE
	TYPE ATLA	12			•		Steel	PVC	•	•			Best	•	•		UL SF CE
	TYPE AT	13		•	•		Steel	PVC					Best	•			CE
	TYPE ATX	14		•	•		Steel	TPR			•		Best	•			CE
	TYPE ALT	15			•		Aluminum	PVC					Good	•			CE
	TYPE ZHLA	16			•		Steel	PU	•	•	•	•	Best	•	•		UL SF CE
	TYPE CEA	17			•		Steel	PU			•	•	Best	•	•		CE
	TYPE ACEA	18			•		Aluminum	PU			•	•	Best	•	•		CE
	TYPE LOR	19		•	•		Steel	PVC					Best	•			CE
	TYPE CSA	20			•		Steel	PVC	•				Good	•	•		SF CE
	TYPE VJC	21		•	•		Steel	PVC						•			
	TYPE LAFG	22		•	•		Steel	PVC	•	•			Best	•	•		UL NSF/FDA CE
	TYPE LTFG	23		•	•		Steel	PVC					Good	•			NSF/FDA CE
	TYPE LSSFG	24			•		Stainless Steel	PVC	•				Good	•			NSF/FDA CE
	TYPE LTSS	25			•		Stainless Steel	PVC	•				Good	•			CE
	TYPE ZHSS	26			•		Stainless Steel	PU	•		•	•	Best	•	•		CE
	TYPE ATXSS	27			•		Stainless Steel	TPR	•		•		Good	•			CE
	TYPE ATSS	27			•		Stainless Steel	PVC	•				Best	•			CE
TYPE CBLA	28			•		Steel	PVC	•	•			Best	•	•		UL SF CE	
<b>EMI/RFI</b>	TYPE SLA	32			•		Steel	PVC	•	•	Available	Available	Best	•	•	•	UL CE
	TYPE EMS	33			•		Bronze	PVC			Available	Available	Best	•	•	•	CE
	TYPE EMCS	34			•		Bronze	PVC			Available	Available	Best	•	•	•	CE
<b>UNJACKETED METALLIC</b>	TYPE BR	37			•		Steel		•								UL SF CE
	TYPE ABR	38			•		Aluminum										UL SF CE
	TYPE ABRH	39			•		Aluminum		•								UL** SF CE
	TYPE USL	40		•	•		Steel										RA
	TYPE SL	41		•	•		Steel										
	TYPE UG	42				•	Steel										
<b>NONMETALLIC</b>	CORRLOK®	44	•	•	•			Nylon	•		•	•	Good		•		RA
	TYPE LNM-P	45	•		•			PVC					Best	FNMC-A	•		UL SF
	TYPE NM	46			•			PVC	•	•			Best	•	•		UL SF
	TYPE NMHT	47			•			PVC	•	•			Best	•	•		UL SF
	TYPE NMFG	48			•			PVC					Good	•			UL SF NSF, FDA
	TYPE NM2	49	•		•			PVC					Good	•	•		RA SF

\*Type BR is CSA certified in 3/8" only. Type ABR is CSA certified in 3/8" and 7/16" only. \*\*Type ABRH is UL listed in sizes 1/2" - 4" only. Shield-Flex, SLA, EMS, EMCS, HFSLA, HFEMS, HFEMCS, are trademarks of Electric-Flex Company, registered in the U.S. Patent and Trademark Office.

# Conduit Application Guide

		Temperature Range											General Chemical Resistance				
		°C	-60°	-40°	-20°	0°	50°	60°	75°	80°	90°	105°	150°	Oils	Acids		
		°F	-76°	-40°	-4°	32°	122°	140°	167°	176°	194°	221°	302°				
Conduit Type	Page																
<b>JACKETED METALLIC</b>		TYPE LA	9													•	•
		TYPE LT	10													•	•
		TYPE EF	11													•	•
		TYPE ATLA	12													•	•
		TYPE AT	13													•	•
		TYPE ATX	14													•	•
		TYPE ALT	15													•	•
		TYPE ZHLA	16													•	•
		TYPE CEA	17													•	•
		TYPE ACEA	18													•	•
		TYPE LOR	19													•	•
		TYPE CSA	20													•	•
		TYPE VJC	21													•	•
		TYPE LAFG	22													•	•
		TYPE LTFG	23													•	•
		TYPE LSSFG	24													•	•
		TYPE LTSS	25													•	•
		TYPE ZHSS	26													•	•
		TYPE ATXSS	27													•	•
		TYPE ATSS	27													•	•
	TYPE CBLA	28													•	•	
<b>EMI/RFI</b>		TYPE SLA	32												•	•	
		TYPE EMS	33												•	•	
		TYPE EMCS	34												•	•	
<b>UNJACKETED METALLIC</b>		TYPE BR	37														
		TYPE ABR	38														
		TYPE ABRH	39														
		TYPE USL	40														
		TYPE SL	41														
		TYPE UG	42														
<b>NONMETALLIC</b>		CORRLOK®	44													•	•
		TYPE LNM-P	45													•	•
		TYPE NM	46													•	•
		TYPE NMHT	47													•	•
		TYPE NMFG	48													•	•
		TYPE NM2	49													•	•

# Products for Every Market

**E**lectri-Flex offers flexible conduit for any application. The diversity of the Liquatite® product line allows us to serve the more than 20 major markets listed in this catalog as well as many other specialty markets.

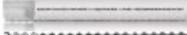
Electri-Flex conduits are manufactured with features and specifications that allow them to be used across multiple markets. Many products are tailor-made to specific markets, such as for food processing and pharmaceuticals, while others can be used across a wide variety of markets. Some markets include:

- Construction
- Data Center
- Defense
- Fixture/AC Whips
- Food Processing & Pharmaceuticals
- Healthcare
- Machine Tools (OEM)
- Mining, Oil & Gas Refineries
- Power Plants, Steel Mills & Utilities
- Rail/Transit
- Renewable Energy
- Robotics
- Security Cameras
- Ship Building & Aerospace
- Telecommunications & Cell Towers
- Wastewater

The following page provides an overview of the primary markets served by Electri-Flex. Use it to find the best conduit for these markets.



# Markets

			Market																						
			Aerospace	Cell Towers	Construction	Data Centers	Defense	Fixture/AC Whips	Food Processing	Healthcare	Machine Tools (OEM)	Mining	Oil & Gas Refineries	Pharmaceuticals	Power Plants	Rail/Transit	Renewable Energy	Robotics	Security	Ship Building	Steel Mills	Telecommunications	Utilities	Wastewater Treatment	
	Conduit Type	Page																							
<b>JACKETED METALLIC</b>		TYPE LA	9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		TYPE LT	10								•		•		•		•					•	•	•	
		TYPE EF	11		•	•						•													
		TYPE ATLA	12			•	•	•			•		•	•		•	•	•		•	•	•	•	•	•
		TYPE AT	13									•	•					•				•	•	•	
		TYPE ATX	14			•						•	•		•	•	•	•		•	•	•	•	•	
		TYPE ALT	15	•																•	•				•
		TYPE ZHLA	16			•	•	•			•		•	•		•	•	•		•	•	•	•	•	•
		TYPE CEA	17								•			•			•					•		•	•
		TYPE ACEA	18								•						•								
		TYPE LOR	19									•		•								•		•	•
		TYPE CSA	20									•	•			•						•		•	•
		TYPE VJC	21									•							•	•					
		TYPE LAFG	22							•	•				•										
		TYPE LTFG	23							•	•				•										
		TYPE LSSFG	24							•	•				•										
		TYPE LTSS	25					•			•											•			•
		TYPE ZHSS	26					•			•		•	•		•					•	•			•
		TYPE ATXSS	27					•						•		•					•	•			•
		TYPE ATSS	27					•			•			•		•					•	•			•
		TYPE CBLA	28				•																		
	<b>EMI/RFI</b>		TYPE SLA	32	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
			TYPE EMS	33	•	•		•			•								•			•		•	•
			TYPE EMCS	34	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	<b>UNJACKETED METALLIC</b>		TYPE BR	37			•		•												•			•	•
			TYPE ABR	38			•		•												•				•
			TYPE ABRH	39			•														•			•	•
			TYPE USL	40																	•				
		TYPE SL	41																	•					
		TYPE UG	42																	•					
<b>NONMETALLIC</b>		CORRLOK®	44	•												•	•	•				•			
		TYPE LNM-P	45								•	•	•		•		•	•				•			
		TYPE NM	46		•	•	•		•						•	•	•	•		•	•		•	•	
		TYPE NMHT	47		•	•									•		•	•					•	•	
		TYPE NMFG	48							•					•										
	TYPE NM2	49								•						•	•					•			

# Jacketed Metallic

Electri-Flex offers the broadest variety of liquidtight flexible metal conduits, ranging from UL listed and CSA certified products to specialized conduits designed for extreme temperatures, non-halogen, low smoke, RFI shielding and food grade applications.

These conduits offer the advantages of a flexible sealed raceway coupled with the strength of a metal core. For more information on our Jacketed Metallic Conduits, see below for an overview or continue through this section.

Conduit Type		Page
	<b>TYPE LA</b>	9
	<b>TYPE LT</b>	10
	<b>TYPE EF</b>	11
	<b>TYPE ATLA</b>	12
	<b>TYPE AT</b>	13
	<b>TYPE ATX</b>	14
	<b>TYPE ALT</b>	15
	<b>TYPE ZHLA</b>	16
	<b>TYPE CEA</b>	17
	<b>TYPE ACEA</b>	18
	<b>TYPE LOR</b>	19
	<b>TYPE CSA</b>	20
	<b>TYPE VJC</b>	21
	<b>TYPE LAFG</b>	22
	<b>TYPE LTFG</b>	23
	<b>TYPE LSSFG</b>	24
	<b>TYPE LTSS</b>	25
	<b>TYPE ZHSS</b>	26
	<b>TYPE ATXSS</b>	27
	<b>TYPE ATSS</b>	27
	<b>TYPE CBLA</b>	28

## Distinctive Characteristics May Include:

- UL listed, CSA certified
- CE
- NSF Certified Component
- WEEE and RoHS Compliant
- Halogen-free
- Flame-resistant
- High impact and crush strength
- Resistant to many chemicals
- Sunlight-resistant
- Withstands extreme temperature ranges

## Applications / Vertical Markets:

- Passenger Rail Vehicle Wiring
- Industrial Control Equipment
- Machine Tools
- Textile Machinery
- Molding / Extrusion Equipment
- Fiber Optics
- Medical Equipment
- Food and Pharmaceutical Equipment
- Healthcare
- Data Centers
- Waste Water Treatment
- Utility



We can blend to any color preference for quick identification of circuits.

See page 29 for details.

# TYPE LA



## Markets:

- Aerospace
- Cell Towers
- Construction
- Data Centers
- Defense
- Fixture/AC Whips
- Food Processing
- Healthcare
- Machine Tools (OEM)
- Mining
- Oil & Gas Refineries
- Pharmaceuticals
- Power Plants
- Rail/Transit
- Renewable Energy
- Security
- Ship Building
- Steel Mills
- Telecom
- Utilities
- Wastewater Treatment

A flexible steel conduit which is both listed by Underwriters Laboratories Inc. and certified by Canadian Standards Association. It offers outstanding protection against wet, oily conditions and is permitted for use in exposed or concealed locations.

## Construction:

### Inner Core:

- Hot Dipped Galvanized Steel
- 3/8" – 1-1/4" Squarelock Profile with continuous bonding strip
- 1-1/2" – 4" Fully Interlocked Profile

### Liquidtight Jacket:

- Flexible PVC
- Resistant to Oils and Mild Acids
- Flame Retardant
- Sunlight Resistant (UV)

## Application:

This conduit is intended for installation in accordance with Article 350 of the NEC (ANSI/NFPA-70) and in section 14.5.4 of the ANSI/NFPA-79 Standard for Industrial Machinery:

- Listed and marked for Direct Burial and in Poured Concrete
- For containment of 1000 volt and lower potential circuits
- Suitable as a grounding conductor when used for circuits rated up to 20A for the 3/8 & 1/2 inch trade sizes and 60A for the 3/4 through 1-1/4 inch trade sizes in lengths six feet or less per NEC Article 250.118(7). Larger sizes require separate grounding conductor.
- Installations in hazardous (classified) locations:
  - Class I Div. 2: Article 501.10 (B)(2) & 501.30 (B)
  - Class II Div. 1: Article 502.1 (A)(2) & 502.30 (B) Div. 2: 502.10 (B)(2)
  - Class III Div. 1: Article 503.10 (A)(2) & 503.30 (B) Div. 2: 503.10 (A)(2)
- Installed under raised floors in Data Processing Areas Articles 645.5 (2)
- Electric Signs and Outline Lighting over 1000 volts Articles 600.7/600.32(A)(1)
- Permitted for Service Entrance wiring to six feet Article 230.43
- Used as Feeders and Services at Marinas and Boatyards Article 553.7(B)
- Wiring on Building Article 225.10
- Conductor Enclosures Adjacent to Motors over 1000 V Article 430.223
- Underground Service, Feeder, Branch Circuit, and Recreational Vehicle Site Feeder Circuit Conductors Article 551.80
- Elevators and Hoistways Article 620.21
- Pools and Fountains Article 680
- Bodies of water. Article 682
- Fire Pumps. Article 695

Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Listed File # E29278. Conforms to Underwriters Laboratories Standard ANSI/UL-360 for Liquidtight Flexible Steel conduit.

Certified File #LL18858. Conforms to CSA 22.2 No.56 for use per the Canadian Electrical Code C22.1 Section 12-1300. FT1

WEEE and RoHS Compliant

BS EN IEC 61386 Classification Code 444240650414

ARRA Certification

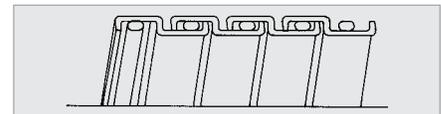
### Standard Colors

Machine Tool Gray and Black. Other colors available upon request.

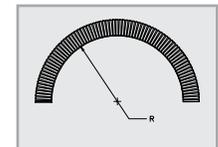
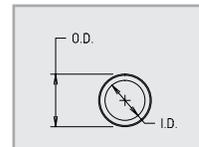
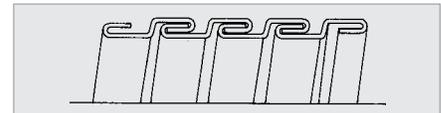
### Working Temperatures

-30°C to 80°C Dry / 60°C Wet / 70°C Oil

### Squarelock with Filler SIZES: 3/8" – 1-1/4"



### Interlock SIZES: 1-1/2" – 4"



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT Lbs. per 100 Ft.	Carton (Ft.)	STANDARD LENGTH							
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)			Part # (Gray)	Part # (Black)	Reel (Ft.)	Part # (Gray)	Part # (Black)	Reel (Ft.)	Part # (Gray)	Part # (Black)
3/8"	16	12	LA-10	0.484	0.504	0.690	0.710	2.0	4.0	29	100	20101	20801	500	20103	20803	1000	20104	20804
1/2"	20	16	LA-11	0.622	0.642	0.820	0.840	3.0	5.0	32	100	21101	21801	500	21103	21803	1000	21104	21804
3/4"	25	21	LA-12	0.820	0.840	1.030	1.050	4.2	6.0	53	100	22101	22801	500	22104	22804	1000	22110	22810
1"	32	27	LA-13	1.041	1.066	1.290	1.315	5.5	12.0	82	100	23102	23802	400	23104	23804			
1 1/4"	40	35	LA-14	1.380	1.410	1.630	1.660	7.0	15.0	102	50	24102	24802	200	24104	24804			
1 1/2"	50	41	LA-15	1.575	1.600	1.865	1.900	4.5	17.0	124	50	25102	25802	150	25104	25804			
2"	63	53	LA-16	2.020	2.045	2.340	2.375	6.0	22.0	145	50	26102	26802	100	26104	26804			
2 1/2"	70	63	LA-17	2.480	2.505	2.840	2.875	8.0	30.0	192	25	27102	27802	275	27105	27805			
3"	80	78	LA-18	3.070	3.100	3.460	3.500	10.0	36.0	252	25	28102	28802	175	28105	28805			
3 1/2"	90	91	LA-350	3.500	3.540	3.960	4.000	11.0	43.0	308	25	28502		175	28505				
4"	100	103	LA-19	4.000	4.040	4.460	4.500	12.0	52.0	350	25	29102	29502	100	29105	29505			

# TYPE LT



A general purpose flexible, non-UL spec grade liquidtight steel conduit designed for a variety of installations requiring motion, vibration and bending. It offers good mechanical and moisture protection to enclosed conductors.

## Construction:

### Inner Core:

- Corrosion Resistant Plated Steel
- 1/4" – 2" Squarelock Profile
- 2-1/2" – 6" Fully Interlocked Profile
- 5/16" – 2" Contain Nylon Cord Packing

### Liquidtight Jacket:

- Flexible PVC
- Resistant to Oils and Mild Acids

### Application:

- Machine Tools
- Industrial Environments
- Wet and Oily Locations
- Outdoor use due to the inherent UV resistance of PVC
- Compatible with standard liquidtight connectors



- Markets:**
- Machine Tools (OEM)
  - Oil & Gas Refineries
  - Power Plants
  - Renewable Energy
  - Steel Mills
  - Telecommunications
  - Utilities



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## Product Information

### Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code  
443140650314

ARRA Certification

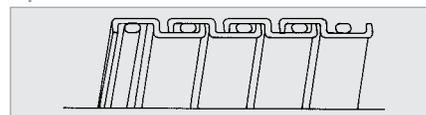
### Standard Colors

Machine Tool Gray and Black.

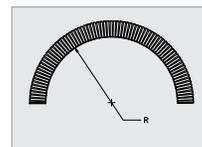
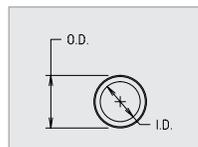
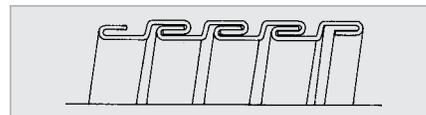
### Working Temperatures

-20°C to 80°C

Squarelock with Filler SIZES: 5/16" – 2"



Interlock SIZES: 2-1/2" – 6"



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT	STANDARD LENGTH												
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)		Lbs. per 100 Ft.	Carton (Ft.)	Part # (Gray)	Part # (Black)	Reel (Ft.)	Part # (Gray)	Part # (Black)	Reel (Ft.)	Part # (Gray)	Part # (Black)			
1/4"	10	8	LT-140	0.245	0.265	0.450	0.470	1.0		10	250	10002											
5/16"	12	10	LT-516	0.385	0.405	0.570	0.590	1.0		17	250	10012											
3/8"	16	12	LT-10	0.484	0.504	0.690	0.710	1.5	4.0	20	100	10101	10801	500	10103	10803	1000	10104	10804				
1/2"	20	16	LT-11	0.622	0.642	0.820	0.840	2.0	5.0	24	100	11101	11801	500	11103	11803	1000	11104	11804				
3/4"	25	21	LT-12	0.820	0.840	1.030	1.050	2.5	6.0	33	100	12102	12802	500	12104	12804	1000	12110	12810				
1"	32	27	LT-13	1.041	1.066	1.290	1.315	3.0	12.0	53	100	13102	13802	400	13104	13804							
1 1/4"	40	35	LT-14	1.380	1.410	1.630	1.660	3.5	15.0	68	50	14102	14802	200	14104	14804							
1 1/2"	50	41	LT-15	1.575	1.600	1.865	1.900	4.5	17.0	88	50	15102	15802	150	15104	15804							
2"	63	53	LT-16	2.020	2.045	2.340	2.375	5.5	22.0	102	50	16102	16802	100	16104	16804							
2 1/2"	70	63	LT-17	2.480	2.505	2.840	2.875	8.0	30.0	192	25	27102	27802	275	27105	27805							
3"	80	78	LT-18	3.070	3.100	3.460	3.500	10.0	36.0	252	25	28102	28802	175	28105	28805							
3 1/2"	90	91	LT-350	3.500	3.540	3.960	4.000	11.0	43.0	308	25	28502		175	28505								
4"	100	103	LT-19	4.000	4.040	4.460	4.500	12.0	52.0	350	25	29102	29502	100	29105	29505							
5"	125		LT-500	4.975	5.035	5.505	5.565	17.5		468	25	15502	15582										
6"	150		LT-600	6.015	6.075	6.565	6.625	22.5		572	25	16602	16682										

# TYPE EF



## Markets:

- Cell Towers
- Construction
- Machine Tools (OEM)

This non-UL flexible liquidtight conduit is a competitive grade version of our type LT designed for a variety of installations requiring motion, vibration and bending. It offers good mechanical and moisture protection to enclosed conductors.

## Construction:

### Inner Core:

- Corrosion Resistant Plated Steel
- 3/8" – 2" Squarelock Profile

### Liquidtight Jacket:

- Flexible PVC
- Resistant to Oils and Mild Acids

## Application:

- Machine Tools
- Industrial Environments
- Wet and Oily Locations
- Outdoor use due to the inherent UV resistance of PVC
- Compatible with standard liquidtight connectors



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Manufactured to UL 360 Dimensions

CE BS EN IEC 61386 Classification Code  
443140650314

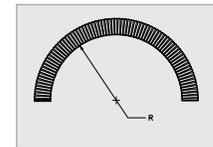
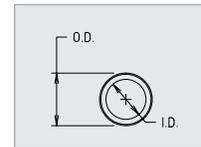
ARRA Certification

### Standard Colors

Machine Tool Gray and Black.

### Working Temperatures

-20°C to 80°C



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT Lbs. per 100 Ft.	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)		Carton (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	EF-10	0.484	0.504	0.690	0.710	1.5	4.0	20	100	80101	500	80103	1000	80104
1/2"	20	16	EF-11	0.622	0.642	0.820	0.840	2.0	5.0	24	100	80111	500	80113	1000	80114
3/4"	25	21	EF-12	0.820	0.840	1.030	1.050	2.5	6.0	31	100	80122	500	80124	1000	80127
1"	32	27	EF-13	1.041	1.066	1.290	1.315	3.0	12.0	43	100	80132	400	80137		
1 1/4"	40	35	EF-14	1.380	1.410	1.630	1.660	3.5	15.0	60	50	80142	200	80147		
1 1/2"	50	41	EF-15	1.575	1.600	1.865	1.900	4.5	17.0	78	50	80152	150	80154		
2"	63	53	EF-16	2.020	2.045	2.340	2.375	5.5	22.0	104	50	80162	100	80164		



Jacketed Metallic



# TYPE ATLA



- Markets:**
- Construction
  - Data Centers
  - Defense
  - Healthcare
  - Mining
  - Oil & Gas Refineries
  - Power Plants
  - Rail/Transit
  - Renewable Energy
  - Security
  - Ship Building
  - Steel Mills
  - Telecom
  - Utilities

A liquidtight flexible steel conduit designed specifically for extreme hot or cold environments. The flexible inner core is identical to that found in Type LA. The specially formulated PVC jacket remains flexible at low temperatures and resists aging at elevated temperatures. It is listed by Underwriters Laboratories Inc. and certified by Canadian Standards Association.

## Construction:

### Inner Core:

- Hot Dipped Galvanized Steel
- 3/8" – 1-1/4" Squarelock Profile with continuous bonding strip
- 1-1/2" – 4" Fully Interlocked Profile

### Liquidtight Jacket:

- Flexible PVC
- Resistant to Oils and Mild Acids
- Flame Retardant
- Sunlight Resistant (UV)

## Application:

Designed to be used with high temperature machine tool wiring. Ideal for outdoor installations in cold climates. This conduit is intended for installation in accordance with Article 350 of the NEC (ANSI/NFPA-70) and in section 14.5.4 of the ANSI/NFPA-79 Standard for Industrial Machinery:

- Permitted for use in exposed or concealed locations.
- Installations under raised floors in Data Processing Areas Article 645.5(E)(2)
- Listed and marked for direct burial and in poured concrete.
- For containment of 1000 volts and lower-potential circuits.
- Permitted for service entrance wiring to 6 feet. Article 230.43
- Sunlight-resistant
- Suitable as a grounding conductor when used for circuits rated up to 20A for the 3/8 & 1/2 inch grade sizes and 60A for the 3/4 through 1-1/4 inch trade sizes in lengths six feet or less per NEC Article 250.118(6). Larger sizes require separate grounding conductor.
- Installations in hazardous (classified) locations:
  - Class I Div. 2: Article 501.10 (B)(2) & 501.30(B)
  - Class II Div. 1: Article 502.10(A)(2) & 502.30(B) Div. 2: 502.10(B)(2)
  - Class III Div. 1: Article 503.10(A)(2) & 503.30(B) Div. 2: 503.10(A)(2)
- Use as Feeders and Services at Marinas and Boatyards. Article 553.7(B).
- Wiring on Building. Article 225.10.
- Conductor Enclosers Adjacent to Motors over 1000V. Article 430.223.
- Underground Service, Feeder, Branch Circuit, and Recreational Vehicle Site Feeder Circuit Conductors. Article 551.80.
- Elevators and Hoistways. Article 620.21.
- Pools and Fountains. Article 680.
- Bodies of water. Article 682.
- Fire pumps. Article 695
- Meets the same specifications as Type LA.



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Listed File # E29278. Conforms to Underwriters Laboratories Standard ANSI/UL-360 for Liquidtight Flexible Steel conduit

Certified File #LL18858. Conforms to CSA 22.2 No.56 for use per the Canadian Electrical Code C22.1 Section 12-1300. FT1

WEEE and RoHS Compliant

EN IEC 61386 Classification Code 445340650414 LVD 2006/G5/EC

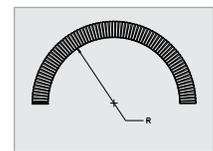
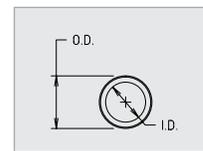
ARRA Certification

### Standard Colors

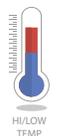
Machine Tool Gray. Other colors available upon request.

### Working Temperatures

U.L.: -55°C to 105°C Air / 60°C Wet / 70°C Oil  
CSA: -50°C to 105°C Dry/75°C Oil



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)		Lbs. per 100 Ft.	Carton (Ft.)	Part # (Gray)	Reel (Ft.)	Part # (Gray)	Reel (Ft.)
3/8"	16	12	ATLA-10	0.484	0.504	0.690	0.710	2.0	4.0	29	100	80201	500	80203	1000	80204
1/2"	20	16	ATLA-11	0.622	0.642	0.820	0.840	3.0	5.0	32	100	80211	500	80213	1000	80214
3/4"	25	21	ATLA-12	0.820	0.840	1.030	1.050	4.2	6.0	53	100	80221	500	80224	1000	80225
1"	32	27	ATLA-13	1.041	1.066	1.290	1.315	5.5	12.0	82	100	80232	400	80234		
1 1/4"	40	35	ATLA-14	1.380	1.410	1.630	1.660	7.0	15.0	102	50	80242	200	80244		
1 1/2"	50	41	ATLA-15	1.575	1.600	1.865	1.900	4.5	17.0	124	50	80252	150	80254		
2"	63	53	ATLA-16	2.020	2.045	2.340	2.375	6.0	22.0	145	50	80262	100	80264		
2 1/2"	70	63	ATLA-17	2.480	2.505	2.840	2.875	8.0	30.0	192	25	80272				
3"	80	78	ATLA-18	3.070	3.100	3.460	3.500	10.0	36.0	252	25	80282				
3 1/2"	90	91	ATLA-350	3.500	3.540	3.960	4.000	11.0	43.0	308	25	80288				
4"	100	103	ATLA-19	4.000	4.040	4.460	4.500	12.0	52.0	350	25	80292				



# TYPE AT



## Markets:

- Mining
- Oil & Gas Refineries
- Renewable Energy
- Steel Mills
- Telecommunications
- Utilities

A flexible steel non-UL conduit that uses a jacketing material specifically designed for hot or cold environments.

## Construction:

### Inner Core:

- Corrosion Resistant Plated Steel
- 3/8" – 2" Squarelock Profile
- 2-1/2" – 6" Fully Interlocked Profile
- 3/8" – 2" Contain Nylon Cord Packing

### Liquidtight Jacket:

- Flexible PVC
- Resistant to Oils and Mild Acids
- High / Low Temperature Range

## Application:

- Machine Tools, Ovens, Foundries, Refrigeration
- Industrial Environments with High / Low Temperatures
- Wet and Oily Locations
- Outdoor use due to the inherent UV resistance of PVC
- Extreme Climatic Conditions
- Compatible with standard liquidtight connectors



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code  
444240650414

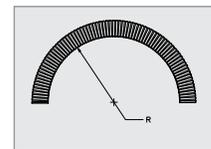
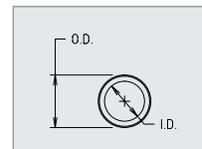
ARRA Certification

### Standard Colors

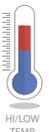
Machine Tool Gray.

### Working Temperatures

-55°C to 105°C Intermitting to 120°C



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT Lbs. per 100 Ft.	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)		Carton (Ft.)	Part # (Gray)	Reel (Ft.)	Part # (Gray)	Reel (Ft.)	Part # (Gray)
3/8"	16	12	AT-10	0.484	0.504	0.690	0.710	1.5	4.0	20	100	30101	500	30103	1000	30104
1/2"	20	16	AT-11	0.622	0.642	0.820	0.840	2.0	5.0	24	100	31101	500	31103	1000	31104
3/4"	25	21	AT-12	0.820	0.840	1.030	1.050	2.5	6.0	33	100	32102	500	32104	1000	32110
1"	32	27	AT-13	1.041	1.066	1.290	1.315	3.0	12.0	53	100	33102	400	33104		
1 1/4"	40	35	AT-14	1.380	1.410	1.630	1.660	3.5	15.0	68	50	34102	200	34104		
1 1/2"	50	41	AT-15	1.575	1.600	1.865	1.900	4.5	17.0	88	50	35102	150	35104		
2"	63	53	AT-16	2.020	2.045	2.340	2.375	5.5	22.0	102	50	36102	100	36104		
2 1/2"	70	63	AT-17	2.480	2.505	2.840	2.875	8.0	30.0	192	25	37102	275	37105		
3"	80	78	AT-18	3.070	3.100	3.460	3.500	10.0	36.0	252	25	38102	175	38105		
3 1/2"	90	91	AT-350	3.500	3.540	3.960	4.000	11.0	43.0	308	25	38882	175	38885		
4"	100	103	AT-19	4.000	4.040	4.460	4.500	12.0	52.0	350	25	39102	100	39105		
5"	125		AT-500	4.975	5.035	5.505	5.565	17.5		468	25	35502				
6"	150		AT-600	6.015	6.075	6.565	6.625	22.5		572	25	36602				



# TYPE ATX



- Markets:**
- Construction
  - Mining
  - Oil & Gas Refineries
  - Power Plants
  - Rail/Transit
  - Renewable Energy
  - Security
  - Ship Building
  - Steel Mills
  - Telecommunications
  - Utilities

A non-UL Liquidtight Flexible Steel conduit designed to withstand an extreme temperature range.

## Construction:

### Inner Core:

- Corrosion Resistant Plated Steel
- 3/8" – 2" Squarelock Profile
- 2-1/2" – 6" Fully Interlocked Profile
- 3/8" – 2" Contain Nylon Cord Packing

### Liquidtight Jacket:

- Flexible TPR (Thermoplastic Rubber)
- Resistant to Oils and Mild Acids
- Halogen-Free
- Extreme High / Low Temperature Range
- UV Stabilized
- Flame Rating of UL94-HB

### Application:

- Outdoor Equipment, Ovens, Foundries, Refrigeration
- Industrial Environments with High / Low Temperatures
- Wet and Oily Locations
- Extreme Climatic Conditions
- Compatible with standard liquidtight connectors\*



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code  
445540650314

ARRA Certification

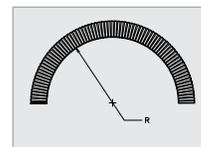
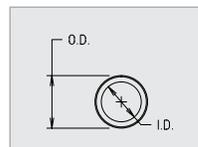
### Standard Colors

Black. Other colors available upon request.

### Working Temperatures

-60°C to 150°C Intermittent to 165°C

\*For applications at the maximum rated working temperature of 150°C, Electri-Flex recommends the use of Thomas&Betts 5300HT series of liquidtight connectors. The gland ring and insulated throat in these fittings are rated for 150°C.



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT Lbs. per 100 Ft.	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)		Carton (Ft.)	Part # (Black)	Reel (Ft.)	Part # (Black)	Reel (Ft.)	Part # (Black)
3/8"	16	12	ATX-10	0.484	0.504	0.690	0.710	1.5	4.0	21	100	60201	500	60203	1000	60204
1/2"	20	16	ATX-11	0.622	0.642	0.820	0.840	2.0	5.0	27	100	61201	500	61203	1000	61204
3/4"	25	21	ATX-12	0.820	0.840	1.030	1.050	2.5	6.0	39	100	62202	500	62204	1000	62210
1"	32	27	ATX-13	1.041	1.066	1.290	1.315	3.0	12.0	56	100	63202	400	63204		
1 1/4"	40	35	ATX-14	1.380	1.410	1.630	1.660	3.5	15.0	73	50	64202	200	64204		
1 1/2"	50	41	ATX-15	1.575	1.600	1.865	1.900	4.5	17.0	104	50	65202	150	65204		
2"	63	53	ATX-16	2.020	2.045	2.340	2.375	5.5	22.0	136	50	66202	100	66204		
2 1/2"	70	63	ATX-17	2.480	2.505	2.840	2.875	8.0	30.0	188	25	67202				
3"	80	78	ATX-18	3.070	3.100	3.460	3.500	10.0	36.0	210	25	68202				
4"	100	103	ATX-19	4.000	4.040	4.460	4.500	12.0	52.0	332	25	69202				

# TYPE ALT



## Markets:

- Aerospace
- Security
- Ship Building
- Wastewater Treatment

This version of non-UL Liquidtight Flexible Conduit is similar to our standard Type LT but weighs considerably less due to the use of an aluminum inner core instead of steel.

## Construction:

### Inner Core:

- Corrosion Resistant Aluminum
- 3/8" – 1-1/4" Squarelock Profile
- 1-1/2" – 6" Fully Interlocked Profile

### Liquidtight Jacket:

- Flexible PVC
- Resistant to Oils and Mild Acids

## Application:

- Corrosive Environments
- Wet and Oily Locations
- Lightweight
- Compatible with standard liquidtight connectors



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code  
233140650314

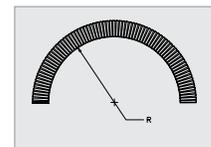
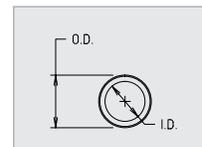
ARRA Certification

### Standard Colors

Machine Tool Gray.

### Working Temperatures

-20°C to 80°C



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT Lbs. per 100 Ft.	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)		Carton (Ft.)	Part # (Gray)	Reel (Ft.)	Part # (Gray)	Reel (Ft.)	Part # (Gray)
3/8"	16	12	ALT-10	0.484	0.504	0.690	0.710	2.0	11	100	40101	500	40103	1000	40104
1/2"	20	16	ALT-11	0.622	0.642	0.820	0.840	2.5	15	100	41101	500	41103	1000	41104
3/4"	25	21	ALT-12	0.820	0.840	1.030	1.050	3.0	20	100	42102	500	42104	1000	42110
1"	32	27	ALT-13	1.041	1.066	1.290	1.315	4.0	29	100	43102	400	43104		
1 1/4"	40	35	ALT-14	1.380	1.410	1.630	1.660	4.5	40	50	44102	200	44104		
1 1/2"	50	41	ALT-15	1.575	1.600	1.865	1.900	5.5	56	50	45102	150	45104		
2"	63	53	ALT-16	2.020	2.045	2.340	2.375	7.0	73	50	46102	100	46104		
2 1/2"	70	63	ALT-17	2.480	2.505	2.840	2.875	9.5	104	25	47102				
3"	80	78	ALT-18	3.070	3.100	3.460	3.500	11.5	144	25	48102				
3 1/2"	90	91	ALT-350	3.500	3.540	3.960	4.000	13.5	164	25	48502				
4"	100	103	ALT-19	4.000	4.040	4.460	4.500	14.0	192	25	49102				
5"	125		ALT-500	4.975	5.035	5.505	5.565	20.0	252	25	45502				
6"	150		ALT-600	6.015	6.075	6.565	6.625	22.5	316	25	46602				



# TYPE ZHLA



- Markets:**
- Construction
  - Data Centers
  - Defense
  - Healthcare
  - Mining
  - Oil & Gas Refineries
  - Power Plants
  - Rail/Transit
  - Renewable Energy
  - Security
  - Ship Building
  - Steel Mills
  - Telecom
  - Utilities

Non-halogen, low smoke and low flame spread make Type ZHLA a proven choice for applications where limiting toxic materials of combustion are an important issue. Since ZHLA is also UL listed and CSA Certified, it is ideal for field installation in confined, public areas such as subways, tunnels, etc.

**Construction:**

**Inner Core:**

- Hot Dipped Galvanized Steel
- 3/8" – 1-1/4" Squarelock Profile with continuous bonding strip
- 1-1/2" – 4" Fully Interlocked Profile

**Liquidtight Jacket:**

- Zero-Halogen Polyurethane
- Resistant to Ozone, Hydrocarbons, Chemicals and Oils
- Flame Retardant
- Low Smoke
- Low Toxicity
- Sunlight Resistant (UV)

**Application:**

- Meets the requirements of Bombardier SMP 800-C for Toxic Gas Generation.
- Meets the requirements of both ASTM E162 for Flame Spread and ASTM E662 for Smoke Generation.

This conduit is intended for installation in accordance with Article 350 of the NEC (ANSI/NFPA-70) and in section 14.5.4 of the ANSI/NFPA-79 Standard for Industrial Machinery:

- Listed and marked for Direct Burial and in Poured Concrete
- For containment of 1000 volt and lower potential circuits
- Suitable as a grounding conductor when used for circuits rated up to 20A for the 3/8 & 1/2 inch trade sizes and 60A for the 3/4 through 1-1/4 inch trade sizes in lengths six feet or less per NEC Article 250.118(7). Larger sizes require separate grounding conductor.
- Installations in hazardous (classified) locations:
  - Class I Div. 2: Article 501.10 (B)(2) & 501.30 (B)
  - Class II Div. 1: Article 502.1 (A)(2) & 502.30 (B) Div. 2: 502.10 (B)(2)
  - Class III Div. 1: Article 503.10 (A)(2) & 503.30 (B) Div. 2: 503.10 (A)(2)
- Installed under raised floors in Data Processing Areas Articles 645.5 (2)
- Electric Signs and Outline Lighting over 1000 volts Articles 600.7/600.32(A)(1)
- Permitted for Service Entrance wiring to six feet Article 230.43
- Used as Feeders and Services at Marinas and Boatyards Article 553.7(B).
- Wiring on Building Article 225.10



Proudly made in the U.S.A.

**Product Information**

**Certifications & Compliance**

Listed File # E29278. Conforms to Underwriters Laboratories Standard ANSI/UL-360 for Liquidtight Flexible Steel conduit.

Certified File #LL18858. Conforms to CSA 22.2 No.56 for use per the Canadian Electrical Code C22.1 Section 12-1300. FT1

WEEE and RoHS Compliant

BS EN IEC 61386 Classification Code 445240650414

ARRA Certification

**Standard Colors**

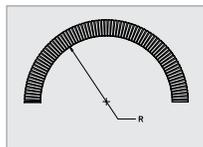
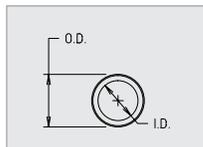
Black. Other colors available upon request.

**Working Temperatures**

U.L.: -40°C to 80°C Air / 60°C Wet / 70°C Oil  
CSA: -40°C to 60°C Dry / 60°C Oil

- Conductor Enclosures Adjacent to Motors over 1000 V Article 430.223
- Underground Service, Feeder, Branch Circuit, and Recreational Vehicle Site Feeder Circuit Conductors Article 551.80
- Elevators and Hoistways Article 620.21
- Pools and Fountains Article 680
- Bodies of water. Article 682
- Fire Pumps. Article 695

**Combustion and Flammability Properties: See chart on the next page.**



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)			Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (Black)	Reel (Ft.)	Part # (Black)
3/8"	16	12	ZHLA-10	0.484	0.504	0.690	0.710	2.0	29	100	88101	500	88103	1000	88104
1/2"	20	16	ZHLA-11	0.622	0.642	0.820	0.840	3.0	32	100	88111	500	88113	1000	88114
3/4"	25	21	ZHLA-12	0.820	0.840	1.030	1.050	4.2	53	100	88121	500	88124	1000	88125
1"	32	27	ZHLA-13	1.041	1.066	1.290	1.315	5.5	82	100	88132	400	88134		
1 1/4"	40	35	ZHLA-14	1.380	1.410	1.630	1.660	7.0	102	50	88142	200	88144		
1 1/2"	50	41	ZHLA-15	1.575	1.600	1.865	1.900	4.5	124	50	88152	150	88154		
2"	63	53	ZHLA-16	2.020	2.045	2.340	2.375	6.0	145	50	88162	100	88164		
2 1/2"	70	63	ZHLA-17	2.480	2.505	2.840	2.875	8.0	192	25	88172				
3"	80	78	ZHLA-18	3.070	3.100	3.460	3.500	10.0	252	25	88182				
3 1/2"	90	91	ZHLA-350	3.500	3.540	3.960	4.000	11.0	308	25	88187				
4"	100	103	ZHLA-19	4.000	4.040	4.460	4.500	12.0	350	25	88192				

# TYPE CEA



## Markets:

- Healthcare
- Oil & Gas Refineries
- Rail/Transit
- Steel Mills
- Utilities

This non-UL liquidtight flexible steel conduit is designed for applications where safety concerns exist regarding a material's reaction in a fire situation.

## Construction:

### Inner Core:

- Corrosion-Resistant Plated Steel
- 3/8" – 2" Squarelock Profile
- 2-1/2" – 6" Fully Interlocked Profile
- 3/8" – 2" Contain Nylon Cord Packing

### Liquidtight Jacket:

- Zero-Halogen Polyurethane
- Resistant to Ozone, Hydrocarbons, Moderate Chemicals and Oils
- Flame Retardant
- Low Smoke
- Low Toxicity
- Sunlight Resistant (UV)

## Application:

- Meets the requirements of Bombardier SMP 800-C for Toxic Gas Generation.
- Meets the requirements of both ASTM E162 for Flame Spread and ASTM E662 for Smoke Generation.
- Mass Transit Vehicles
- Subways and Tunnels
- Enclosed Public Areas



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## Product Information

### Certifications & Compliance



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code  
445340650314

ARRA Certification

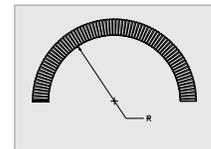
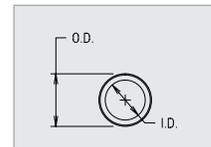
### Standard Colors

Gray and Black. Other colors available upon request.

### Working Temperatures

-40°C to 80°C

COMBUSTION & FLAMMABILITY PROPERTIES	TEST	VALUE
Vertical Burn (Material)	UL94	V-0 Rating; No Flaming Drips
Vertical Burn (Conduit)	UL360	Pass; No Flaming Drips
Oxygen Index %	D2863	28.5
Flame Spread Index	ASTM E162	25; No Flaming Drips
Smoke Generation (Flaming)	ASTM E662 (NFPA 258)	Ds 41@1.5 Min/Ds 113@4.0 Min
Smoke Generation (Non-Flaming)	ASTM E662 (NFPA 258)	Ds 4@1.5 Min/Ds 19@4.0 Min
Toxic Gas Generation	BOMBARDIER SMP 800-C	Pass
Toxicity Index	NES 713	3.9



\* Test data is based on controlled laboratory conditions and does not necessarily reflect performance in actual fire conditions. Additional product information available upon request.

US Trade Size	ISO (MM)	CSA (MM)	Type	Min Jacket Thickness	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT	STANDARD LENGTH					
					Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)			Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (Gray)	Part # (Black)	Reel (Ft.)
3/8"	16	12	CEA-10	0.030	0.484	0.504	0.690	0.710	1.5	20	100	888016	88801	1000		
1/2"	20	16	CEA-11	0.030	0.622	0.642	0.820	0.840	2.0	24	100	888116	88811	1000	888146	88814
3/4"	25	21	CEA-12	0.035	0.820	0.840	1.030	1.050	2.5	33	100	888216	88821	500	888246	88824
1"	32	27	CEA-13	0.035	1.041	1.066	1.290	1.315	3.0	53	100	888326	88832	400	888346	88834
1 1/4"	40	35	CEA-14	0.035	1.380	1.410	1.630	1.660	3.5	68	50	888426	88842	200	888446	
1 1/2"	50	41	CEA-15	0.040	1.575	1.600	1.865	1.900	4.5	88	50	888526	88852	150	888546	88854
2"	63	53	CEA-16	0.040	2.020	2.045	2.340	2.375	5.5	102	50	888626	88862	100	888646	88864
2 1/2"	70	63	CEA-17	0.050	2.480	2.505	2.840	2.875	8.0	168	25	888726	88872			
3"	80	78	CEA-18	0.050	3.070	3.100	3.460	3.500	10.0	252	25	888826	88882			
4"	100	103	CEA-19	0.060	4.000	4.040	4.460	4.500	12.0	344	25	888926	88892			
5"	125		CEA-500	0.099	4.975	5.035	5.505	5.565	17.5	468	25		88582			
6"	150		CEA-600	0.099	6.015	6.075	6.565	6.625	22.5	572	25					



Jacketed Metallic



# TYPE ACEA

**Markets:**

- Healthcare
- Rail/Transit



This non-UL liquidtight flexible aluminum conduit is designed for applications where safety concerns exist regarding a material's reaction in a fire situation and where weight is an issue.

## Construction:

### Inner Core:

- Corrosion-Resistant Aluminum
- 3/8" – 1-1/4" Squarelock Profile
- 1-1/2" – 4" Fully Interlocked Profile

### Liquidtight Jacket:

- Zero-Halogen Polyurethane
- Resistant to Ozone, Hydrocarbons, Moderate Chemicals and Oils
- Flame Retardant
- Low Smoke
- Low Toxicity
- Sunlight Resistant (UV)

## Application:

- Meets the requirements of Bombardier SMP 800-C for Toxic Gas Generation.
- Meets the requirements of both ASTM E162 for Flame Spread and ASTM E662 for Smoke Generation.
- Mass Transit Vehicles
- Subways and Tunnels
- Enclosed Public Areas
- Lightweight



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code 235240650314

ARRA Certification

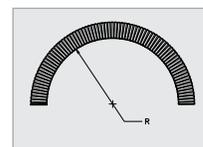
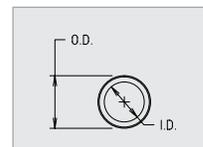
### Standard Colors

Gray and Black. Other colors available upon request.

### Working Temperatures

-40°C to 80°C

COMBUSTION & FLAMMABILITY PROPERTIES	TEST	VALUE
Vertical Burn (Material)	UL94	V-0 Rating; No Flaming Drips
Vertical Burn (Conduit)	UL360	Pass; No Flaming Drips
Oxygen Index %	D2863	28.5
Flame Spread Index	ASTM E162	25; No Flaming Drips
Smoke Generation (Flaming)	ASTM E662 (NFPA 258)	Ds 41@1.5 Min/Ds 113@4.0 Min
Smoke Generation (Non-Flaming)	ASTM E662 (NFPA 258)	Ds 4@1.5 Min/Ds 19@4.0 Min
Toxic Gas Generation	BOMBARDIER SMP 800-C	Pass
Toxicity Index	NES 713	3.9



\* Test data is based on controlled laboratory conditions and does not necessarily reflect performance in actual fire conditions. Additional product information available upon request.

US Trade Size	ISO (MM)	CSA (MM)	Type	Min Jacket Thickness	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT	STANDARD LENGTH	
					Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)			Static (IN.)	Lbs. per 100 Ft.
3/8"	16	12	ACEA-10	0.030	0.484	0.504	0.690	0.710	1.5	11	100	87901
1/2"	20	16	ACEA-11	0.030	0.622	0.642	0.820	0.840	2.0	15	100	87911
3/4"	25	21	ACEA-12	0.035	0.820	0.840	1.030	1.050	2.5	20	100	87922
1"	32	27	ACEA-13	0.035	1.041	1.066	1.290	1.315	3.0	29	100	87932
1 1/4"	40	35	ACEA-14	0.035	1.380	1.410	1.630	1.660	3.5	40	50	87942
1 1/2"	50	41	ACEA-15	0.040	1.575	1.600	1.865	1.900	4.5	56	50	87952
2"	63	53	ACEA-16	0.040	2.020	2.045	2.340	2.375	5.5	73	50	87962
2 1/2"	70	63	ACEA-17	0.050	2.480	2.505	2.840	2.875	8.0	104	25	87972
3"	80	78	ACEA-18	0.050	3.070	3.100	3.460	3.500	10.0	144	25	87982
4"	100	103	ACEA-19	0.060	4.000	4.040	4.460	4.500	12.0	192	25	87992



# TYPE LOR

## Markets:

- Machine Tools (OEM)
- Oil & Gas Refineries
- Steel Mills
- Utilities



Jacketed Metallic



This product is offered as a non-UL, oil-resistant conduit that incorporates a high-quality PVC jacket.

## Construction:

### Inner Core:

- Corrosion-Resistant Plated Steel
- 1/4" – 2" Squarelock Profile
- 2-1/2" – 6" Fully Interlocked Profile
- 5/16" – 2" Contain Nylon Cord Packing

### Liquidtight Jacket:

- Flexible PVC (Uses the same material as Type LA)
- Resistant to Oils and Mild Acids
- Flame Retardant
- Sunlight Resistant (UV)

## Application:

- Machine Tools
- Industrial Environments
- Wet and Oily Locations
- Compatible with standard liquidtight connectors



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## Product Information

### Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code  
444240650314

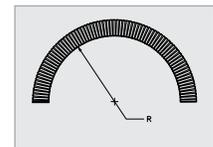
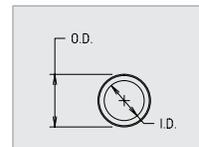
ARRA Certification

### Standard Colors

Machine Tool Gray and Black

### Working Temperatures

-30°C to 80°C Dry / 60°C Wet / 70°C Oil



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT Lbs. per 100 Ft.	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)		Carton (Ft.)	Part # (Gray)	Reel (Ft.)	Part # (Gray)	Reel (Ft.)	Part # (Gray)
3/8"	16	12	LOR-10	0.484	0.504	0.690	0.710	1.5	4.0	20	100	50101	500	50103	1000	50104
1/2"	20	16	LOR-11	0.622	0.642	0.820	0.840	2.0	5.0	24	100	51101	500	51103	1000	51104
3/4"	25	21	LOR-12	0.820	0.840	1.030	1.050	2.5	6.0	33	100	52102	500	52104	1000	52110
1"	32	27	LOR-13	1.041	1.066	1.290	1.315	3.0	12.0	53	100	53102	400	53104		
1 1/4"	40	35	LOR-14	1.380	1.410	1.630	1.660	3.5	15.0	68	50	54102	200	54104		
1 1/2"	50	41	LOR-15	1.575	1.600	1.865	1.900	4.5	17.0	88	50	55102	150	55104		
2"	63	53	LOR-16	2.020	2.045	2.340	2.375	5.5	22.0	102	50	56102	100	56104		
2 1/2"	70	63	LOR-17	2.480	2.505	2.840	2.875	8.0	30.0	192	25	57102				
3"	80	78	LOR-18	3.070	3.100	3.460	3.500	10.0	36.0	252	25	58102				
3 1/2"	90	91	LOR-350	3.500	3.540	3.960	4.000	11.0	43.0	308	25	58882				
4"	100	103	LOR-19	4.000	4.040	4.460	4.500	12.0	52.0	350	25	59102				
5"	125		LOR-500	4.975	5.035	5.505	5.565	17.5		468	25	55502				
6"	150		LOR-600	6.015	6.075	6.565	6.625	22.5		572	25	56602				

# TYPE CSA

**Markets:**

- Mining
- Oil & Gas Refineries
- Power Plants
- Steel Mills
- Utilities



This flexible liquidtight steel conduit is certified by the Canadian Standards Association. Its design and function is similar to that of type LA, except that it cannot be used as a ground return path per the Canadian code.

## Construction:

### Inner Core:

- Hot Dipped Galvanized Steel
- 3/8" – 1-1/4" Squarelock Profile with continuous cord packing
- 1-1/2" – 4" Fully Interlocked Profile

### Liquidtight Jacket:

- Flexible PVC
- Resistant to Oils and Mild Acids
- FT-4 Flame Retardant Sunlight Resistant (UV)
- Sunlight Resistant (UV)

## Application:

This conduit is intended for use according to the Canadian Electrical Code (CEC CSA 22.1) as described in clause 12-1300 for dry, damp or wet locations.

Hazardous Locations areas where flexibility is necessary:

- Class II CSA 22.1 Clause 18-202(4)(b)
- Class III CSA 22.1 Clause 18-302(4)



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## Product Information

### Certifications & Compliance

Certified File #LL18858. Conforms to CSA Standard C22.2 No 56. Flame Test Rating FT-4 per CSA Standard C22.2 No 0.3.



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code 445240650414

ARRA Certification

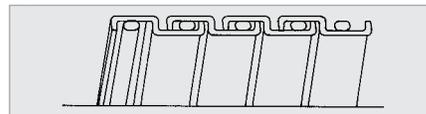
### Standard Colors

Black. Other colors available upon request.

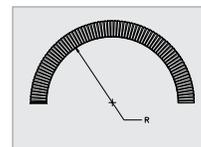
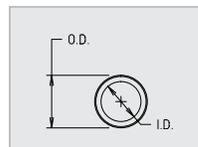
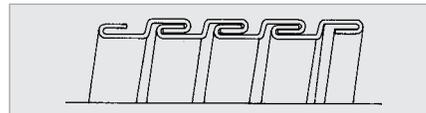
### Working Temperatures

-40°C to 75°C

Squarelock with Filler SIZES: 3/8" – 1-1/4"



Interlock SIZES: 1-1/2" – 4"



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)		Lbs. per 100 Ft.	Carton (Ft.)	Part # (Black)	Reel (Ft.)	Part # (Black)	Reel (Ft.)
3/8"	16	12	CSA-10	0.484	0.504	0.690	0.710	2.0	4.0	29	100	70101	500	70103	1000	70104
1/2"	20	16	CSA-11	0.622	0.642	0.820	0.840	3.3	5.0	32	100	71101	500	71103	1000	71104
3/4"	25	21	CSA-12	0.820	0.840	1.030	1.050	4.3	6.0	53	100	72101	500	72104	1000	72110
1"	32	27	CSA-13	1.041	1.066	1.290	1.315	6.5	12.0	82	100	73102	400	73104		
1 1/4"	40	35	CSA-14	1.380	1.410	1.630	1.660	8.0	15.0	102	50	74102	200	74104		
1 1/2"	50	41	CSA-15	1.575	1.600	1.865	1.900	9.0	17.0	124	50	75102	150	75104		
2"	63	53	CSA-16	2.020	2.045	2.340	2.375	11.0	22.0	145	50	76102	100	76104		
2 1/2"	70	63	CSA-17	2.480	2.505	2.840	2.875	14.8	30.0	192	25	77102				
3"	80	78	CSA-18	3.070	3.100	3.460	3.500	17.5	36.0	252	25	78102				
4"	100	103	CSA-19	4.000	4.040	4.460	4.500	24.0	52.0	350	25	79102				

# TYPE VJC



Vacuum jacketed non-UL steel conduit for high-flex installations.

## Construction:

### Inner Core:

- Corrosion-Resistant Plated Steel
- 3/8" – 3" Squarelock Profile

### Liquidtight Jacket:

- Vacuum Jacketed Flexible PVC
- Resistant to Oils and Mild Acids

### Application:

- Tight Bends
- Dynamic Flexing
- Compatible with standard liquidtight connectors

### Markets:

- Machine Tools (OEM)
- Robotics
- Security

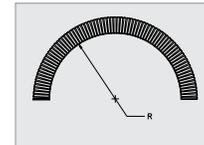
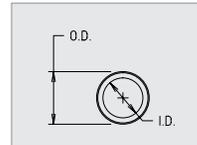
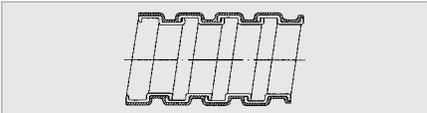
## Product Information

### Standard Colors

Black

### Working Temperatures

-20°C to 80°C



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT Lbs. per 100 Ft.	STANDARD LENGTH	
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)		Carton (Ft.)	Part # (Black)
3/8"	16	12	VJC-10	0.492	0.516	0.657	0.681	1	5	14	100	89201
1/2"	20	16	VJC-11	0.622	0.646	0.799	0.823	1	6	16	100	89211
3/4"	25	21	VJC-12	0.815	0.839	0.996	1.020	2	8	20	100	89221
1"	32	27	VJC-13	1.043	1.067	1.240	1.264	3	10	35	100	89232
1 1/4"	40	35	VJC-14	1.378	1.402	1.642	1.673	3	12	38	50	89242
1 1/2"	50	41	VJC-15	1.575	1.598	1.850	1.890	3.5	14	44	50	89252
2"	63	53	VJC-16	2.008	2.031	2.307	2.346	4	16	66	50	89262
3"	80	78	VJC-18	3.071	3.094	3.425	3.465	6.5	25	93	25	89282



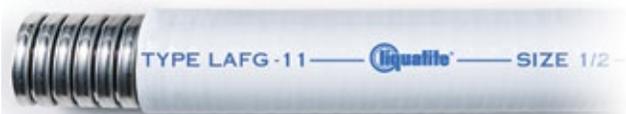
Jacketed Metallic



# TYPE LAFG

### Markets:

- Food Processing
- Healthcare
- Pharmaceuticals



A UL Listed flexible liquidtight steel conduit designed for a variety of installations regarding motion, vibration and bending on food processing equipment.

## Construction:

### Inner Core:

- Hot Dipped Galvanized Steel
- 3/8" – 1-1/4" Squarelock Profile with continuous bonding strip
- 1-1/2" – 4" Fully Interlocked Profile

### Liquidtight Jacket:

- Flexible PVC made from an FDA approved compound
- Formulated for "Splash Zone" food and beverage contact
- Meets FDA CFR21 and NSF 51/61 requirements
- Resistant to Oils and Mild Acids
- Flame Retarded
- Sunlight Resistant (UV)

## Application:

Type LAFG is a Certified Component for NSF/ANSI 169 special purpose food equipment. The following points are in addition to all of the NEC (ANSI/NFPA-70) Article 350 installation guidelines outlined for Type LA flexible liquidtight conduit:

- Smooth exterior for easy washdown
- Resistant to Sodium Hypochlorite (Bleach)
- Will not promote bacteria growth
- Intended for use with Standard Liquidtight Connectors

## Industries Served:

- Poultry Processing & Misc. Food Manufacturing (SIC 2015)
- Food Product Machinery Manufacturing (SIC 2011)
- Pharmaceutical Preparation Manufacturing (SIC 2834)
- Food Packaging, Canning and Bottling



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Listed File # E29278. Conforms to Underwriters Laboratories Standard ANSI/UL-360 for Liquidtight Flexible Steel conduit.



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code 444240650414

ARRA Certification



NSF Certified Component

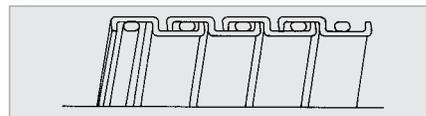
### Standard Colors

White. Other colors available upon request.

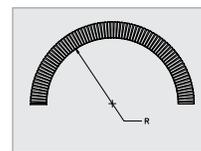
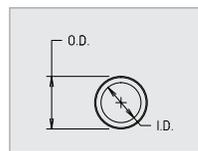
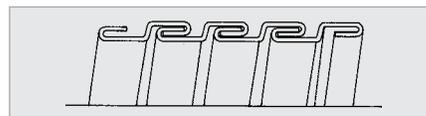
### Working Temperatures

-30°C to 80°C Dry / 60°C Wet / 70°C Oil

Squarelock with Filler SIZES: 3/8" - 1-1/4"



Interlock SIZES: 1-1/2" - 4"



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT Lbs. per 100 Ft.	Carton (Ft.)	STANDARD LENGTH				
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)			Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	LAFG-10	0.484	0.504	0.690	0.710	2.0	4.0	29	100	20901	500	20903	1000	20904
1/2"	20	16	LAFG-11	0.622	0.642	0.820	0.840	3.0	5.0	32	100	21901	500	21903	1000	21904
3/4"	25	21	LAFG-12	0.820	0.840	1.030	1.050	4.2	6.0	53	100	22901	500	22904	1000	22910
1"	32	27	LAFG-13	1.041	1.066	1.290	1.315	5.5	12.0	82	100	23902	400	23904		
1 1/4"	40	35	LAFG-14	1.380	1.410	1.630	1.660	7.0	15.0	102	50	24902	200	24904		
1 1/2"	50	41	LAFG-15	1.575	1.600	1.865	1.900	4.5	17.0	124	50	25902	150	25904		
2"	63	53	LAFG-16	2.020	2.045	2.340	2.375	6.0	22.0	145	50	26902	100	26904		
2 1/2"	70	63	LAFG-17	2.480	2.505	2.840	2.875	8.0	30.0	192	25		275			
3"	80	78	LAFG-18	3.070	3.100	3.460	3.500	10.0	36.0	252	25		175			
3 1/2"	90	91	LAFG-350	3.500	3.540	3.960	4.000	11.0	43.0	308	25		175			
4"	100	103	LAFG-19	4.000	4.040	4.460	4.500	12.0	52.0	350	25		100			



# TYPE LTFG

## Markets:

- Food Processing
- Healthcare
- Pharmaceuticals



A general-purpose, non-UL flexible liquidtight steel conduit designed for a variety of installations regarding motion, vibration and bending on food processing equipment.

## Construction:

### Inner Core:

- Corrosion-Resistant Plated Steel
- 1/4" – 2" Squarelock Profile
- 2-1/2" – 6" Fully Interlocked Profile
- 5/16" – 2" Contain Nylon Cord Packing

### Liquidtight Jacket:

- Flexible PVC made from an FDA approved compound
- Formulated for "Splash Zone" food and beverage contact
- Meets FDA CFR21 and NSF 51/61 requirements

## Application:

Type LTFG is a Certified Component for NSF/ANSI 169 special purpose food equipment

- Provides a liquidtight flexible protective wiring raceway
- Smooth exterior for easy washdown
- Resistant to Sodium Hypochlorite (Bleach)
- Will not promote bacteria growth
- Available in 3/8" through 2". Consult factory for larger sizes
- Intended for use with Standard Liquidtight Connectors

## Industries Served:

- Poultry Processing & Misc. Food Manufacturing (SIC 2015)
- Food Product Machinery Manufacturing (SIC 2011)
- Pharmaceutical Preparation Manufacturing (SIC 2834)
- Food Packaging, Canning and Bottling



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code  
444240650314



NSF Certified Component

ARRA Certification

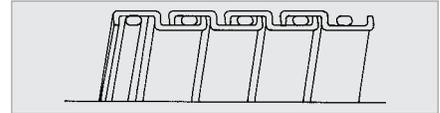
### Standard Colors

White. Clear jacketing available for a more aesthetically appealing appearance with stainless steel equipment. Other colors available upon request.

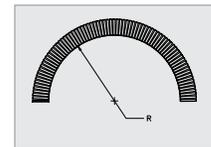
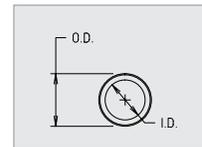
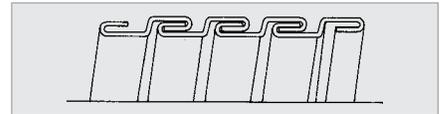
### Working Temperatures

-20°C to 60°C

### Squarelock with Filler SIZES: 5/16" - 2"



### Interlock SIZES: 2-1/2" - 6"



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT Lbs. per 100 Ft.	Carton (Ft.)	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)			Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #	
3/8"	16	12	LTFG-10	0.484	0.504	0.690	0.710	1.5	4.0	20	100	101019	500	101039	1000	101049	
1/2"	20	16	LTFG-11	0.622	0.642	0.820	0.840	2.0	5.0	24	100	111019	500	111039	1000	111049	
3/4"	25	21	LTFG-12	0.820	0.840	1.030	1.050	2.5	6.0	33	100	121029	500	121049	1000	121109	
1"	32	27	LTFG-13	1.041	1.066	1.290	1.315	3.0	12.0	53	100	131029	400	131049			
1 1/4"	40	35	LTFG-14	1.380	1.410	1.630	1.660	3.5	15.0	68	50	141029	200	141049			
1 1/2"	50	41	LTFG-15	1.575	1.600	1.865	1.900	4.5	17.0	88	50	151029	150	151049			
2"	63	53	LTFG-16	2.020	2.045	2.340	2.375	5.5	22.0	102	50	161029	100	161049			

# TYPE LSSFG

**Markets:**

- Food Processing
- Healthcare
- Pharmaceuticals



A flexible non-UL liquidtight stainless steel conduit designed for a variety of installations requiring motion, vibration and bending on food processing equipment. It offers excellent resistance to corrosion.

## Construction:

### Inner Core:

- Corrosion-Resistant continuous strip of 316L Stainless Steel.
- Also available in 304L Stainless Steel, special order only. Minimum order quantities may apply.

### Liquidtight Jacket:

- Flexible PVC made from an FDA approved compound
- Formulated for "Splash Zone" food and beverage contact
- Meets FDA CFR21 and NSF 51/61 requirements

## Application:

Type LSSFG is a Certified Component for NSF/ANSI 169 special purpose food equipment.

- Provides a liquidtight flexible protective wiring raceway.
- Smooth exterior for easy washdown
- Resistant to Sodium Hypochlorite (Bleach)
- Will not promote bacteria growth
- Available in 3/8" through 2". Consult factory for larger sizes
- Intended for use with Standard Liquidtight Connectors

## Industries Served:

- Poultry Processing & Misc. Food Manufacturing (SIC 2015)
- Food Product Machinery Manufacturing (SIC 2011)
- Pharmaceutical Preparation Manufacturing (SIC 2834)
- Food Packaging, Canning and Bottling



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code 444240650314

ARRA Certification



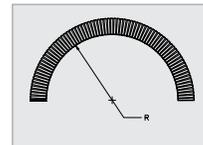
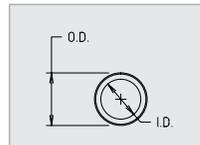
NSF Certified Component

### Standard Colors

Clear jacketing for a more aesthetically appealing appearance with stainless steel equipment. Other colors available upon request.

### Working Temperatures

-20°C to 60°C



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT Lbs. per 100 Ft.	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)		Coil (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	LSSFG-10	0.484	0.504	0.690	0.710	2.0	23	100		500		1000	
1/2"	20	16	LSSFG-11	0.622	0.642	0.820	0.840	3.0	28	100		500		1000	
3/4"	25	21	LSSFG-12	0.820	0.840	1.030	1.050	4.2	38	100		500		1000	
1"	32	27	LSSFG-13	1.041	1.066	1.290	1.315	5.5	62	100		400			
1-1/4"	40	35	LSSFG-14	1.380	1.410	1.630	1.660	7.0	79	50		200			
1-1/2"	50	41	LSSFG-15	1.575	1.600	1.865	1.900	4.5	103	50		150			
2"	63	53	LSSFG-16	2.020	2.045	2.340	2.375	6.0	119	50		100			

# TYPE LTSS

## Markets:

- Defense
- Healthcare
- Ship Building
- Wastewater Treatment



A flexible non-UL liquidtight stainless steel conduit designed for a variety of installations requiring motion, vibration and bending. It offers excellent resistance to corrosion.

## Construction:

### Inner Core:

- Corrosion-Resistant continuous strip of 304L Stainless Steel.
- Also available in 316L Stainless Steel, special order only. Minimum order quantities may apply.

### Liquidtight Jacket:

- Flexible PVC
- Resistant to Oils and Mild Acids

## Application:

- Machine Tools
- Corrosive Environments
- Industrial Environments
- Wet and Oily Locations
- Outdoor use due to the inherent UV resistance of PVC
- Compatible with standard liquidtight connectors
- Also available in unjacketed stainless steel (p. 36)



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code  
443140650314

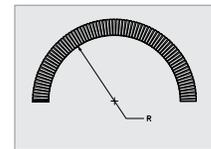
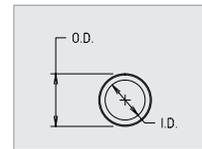
ARRA Certification

### Standard Colors

Clear jacketing. Other colors available upon request.

### Working Temperatures

-20°C to 80°C



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)			Static (IN.)	Lbs. per 100 Ft.	Coil (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	LTSS-10	0.484	0.504	0.690	0.710	2.0	23	100		500		1000	
1/2"	20	16	LTSS-11	0.622	0.642	0.820	0.840	3.0	28	100		500		1000	
3/4"	25	21	LTSS-12	0.820	0.840	1.030	1.050	4.2	38	100		500		1000	
1"	32	27	LTSS-13	1.041	1.066	1.290	1.315	5.5	62	100		400			
1-1/4"	40	35	LTSS-14	1.380	1.410	1.630	1.660	7.0	79	50		200			
1-1/2"	50	41	LTSS-15	1.575	1.600	1.865	1.900	4.5	103	50		150			
2"	63	53	LTSS-16	2.020	2.045	2.340	2.375	6.0	119	50		100			
3"	80	78	LTSS-18	3.070	3.100	3.460	3.500	10.0	295	25		175			
4"	100	103	LTSS-19	4.000	4.040	4.460	4.500	12.0	410	25		100			
5"	125		LTSS-500	4.975	5.035	5.505	5.565	17.5	548	25					
6"	150		LTSS-600	6.015	6.075	6.565	6.625	22.5	670	25					



# TYPE ZHSS



### Markets:

- Defense
- Healthcare
- Mining
- Oil & Gas Refineries
- Power Plants
- Ship Building
- Steel Mills
- Wastewater Treatment

This non-UL liquidtight flexible stainless steel conduit is designed for applications where safety concerns exist regarding a material's reaction in a fire situation. It offers excellent resistance to corrosion.

### Construction:

#### Inner Core:

- Corrosion-Resistant continuous strip of 316L Stainless Steel.
- Also available in 304L Stainless Steel, special order only. Minimum order quantities may apply.

#### Liquidtight Jacket:

- Zero Halogen Polyurethane
- Resistant to Ozone, Hydrocarbons, Moderate Chemicals and Oils
- Flame Retardant
- Low Smoke
- Low Toxicity
- Sunlight Resistant (UV)

### Application:

- Corrosive Environments
- Meets the requirements of Bombardier SMP 800-C for Toxic Gas Generation.
- Meets the requirements of both ASTM E162 for Flame Spread and ASTM E662 for Smoke Generation.
- Industrial Environments
- Wet and Oily Locations
- Compatible with standard liquidtight connectors



Proudly made in the U.S.A.

### Product Information

#### Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



BS EN IEC 61386 Classification Code 445240650314

ARRA Certification

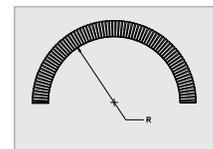
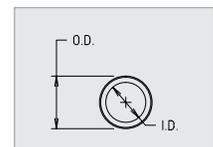
#### Standard Colors

Black. Other colors available upon request.

#### Working Temperatures

-40°C to 80°C

COMBUSTION & FLAMMABILITY PROPERTIES	TEST	VALUE
Vertical Burn (Material)	UL94	V-0 Rating; No Flaming Drips
Vertical Burn (Conduit)	UL360	Pass; No Flaming Drips
Oxygen Index %	D2863	28.5
Flame Spread Index	ASTM E162	25; No Flaming Drips
Smoke Generation (Flaming)	ASTM E662 (NFPA 258)	Ds 41@1.5 Min/Ds 113@4.0 Min
Smoke Generation (Non-Flaming)	ASTM E662 (NFPA 258)	Ds 4@1.5 Min/Ds 19@4.0 Min
Toxic Gas Generation	BOMBARDIER SMP 800-C	Pass
Toxicity Index	NES 713	3.9



\* Test data is based on controlled laboratory conditions and does not necessarily reflect performance in actual fire conditions. Additional product information available upon request.

US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)			Lbs. per 100 Ft.	Coil (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)
3/8"	16	12	ZHSS-10	0.484	0.504	0.690	0.710	2.0	23	100		500		1000	
1/2"	20	16	ZHSS-11	0.622	0.642	0.820	0.840	3.0	28	100		500		1000	
3/4"	25	21	ZHSS-12	0.820	0.840	1.030	1.050	4.2	38	100		500		1000	
1"	32	27	ZHSS-13	1.041	1.066	1.290	1.315	5.5	62	100		400			
1-1/4"	40	35	ZHSS-14	1.380	1.410	1.630	1.660	7.0	79	50		200			
1-1/2"	50	41	ZHSS-15	1.575	1.600	1.865	1.900	4.5	103	50		150			
2"	63	53	ZHSS-16	2.020	2.045	2.340	2.375	6.0	119	50		100			
3"	80	78	ZHSS-18	3.070	3.100	3.460	3.500	10.0	295	25		175			
4"	100	103	ZHSS-19	4.000	4.040	4.460	4.500	12.0	410	25		100			
5"	125		ZHSS-500	4.975	5.035	5.505	5.565	17.5	548	25					
6"	150		ZHSS-600	6.015	6.075	6.565	6.625	22.5	670	25					



# TYPE ATXSS



Proudly made in the U.S.A.

This non-UL liquidtight flexible stainless steel conduit is designed to withstand an extreme temperature range. It offers excellent resistance to corrosion.

## Construction:

### Inner Core:

- Corrosion-Resistant continuous strip of 304L Stainless Steel.
- Also available in 316L Stainless Steel, special order only. Minimum order quantities may apply.

### Liquidtight Jacket:

- Flexible TPR (Thermoplastic Rubber)
- Resistant to Oils and Mild Acids
- Halogen-Free
- Extreme High / Low Temperature Range
- UV Stabilized
- Flame Rating of UL94-HB

### Application:

- Corrosive Environments
- Outdoor Equipment, Ovens, Foundries, Refrigeration
- Industrial Environments with High / Low Temperatures
- Wet and Oily Locations
- Extreme Climatic Conditions
- Compatible with standard liquidtight connectors

### Markets:

- Defense
- Oil & Gas Refineries
- Power Plants
- Ship Building
- Steel Mills
- Wastewater Treatment

# TYPE ATSS



Proudly made in the U.S.A.

A flexible stainless steel non-UL conduit that uses a jacketing material specifically designed for hot or cold environments.

## Construction:

### Inner Core

- Corrosion-Resistant 316L Stainless Steel.
- Fully Interlocked Profile

### Liquidtight Jacket:

- Flexible PVC
- Resistant to Oils and Mild Acids
- High / Low Temperature Range

### Application:

- Machine Tools, Ovens, Foundries, Refrigeration
- Industrial Environments with High / Low Temperatures
- Corrosive Atmospheres
- Wet and Oily Locations
- Outdoor use due to the inherent UV resistance of PVC
- Extreme Climatic Conditions
- Compatible with standard liquidtight connectors

### Markets:

- Defense
- Healthcare
- Oil & Gas Refineries
- Power Plants
- Ship Building
- Steel Mills
- Wastewater Treatment

## TYPE ATXSS

US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS Static (IN.)	WEIGHT Lbs. per 100 Ft.	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)			Coil (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	ATXSS-10	0.484	0.504	0.690	0.710	2.0	23	100		500		1000	
1/2"	20	16	ATXSS-11	0.622	0.642	0.820	0.840	3.0	28	100		500		1000	
3/4"	25	21	ATXSS-12	0.82	0.840	1.030	1.050	4.2	38	100		500		1000	
1"	32	27	ATXSS-13	1.041	1.066	1.290	1.315	5.5	62	100		400			
1-1/4"	40	35	ATXSS-14	1.38	1.410	1.630	1.660	7.0	79	50		200			
1-1/2"	50	41	ATXSS-15	1.575	1.600	1.865	1.900	4.5	103	50		150			
2"	63	53	ATXSS-16	2.02	2.045	2.340	2.375	6.0	119	50		100			
3"	80	78	ATXSS-18	3.070	3.100	3.460	3.500	10.0	295	25		175			
4"	100	103	ATXSS-19	4.00	4.040	4.460	4.500	12.0	410	25		100			
5"	125		ATXSS-500	4.975	5.035	5.505	5.565	17.5	548	25					
6"	150		ATXSS-600	6.015	6.075	6.565	6.625	22.5	670	25					

Proudly made in the U.S.A.

### Product Information

#### Certifications & Compliance

Manufactured to UL 360 Dimensions

WEEE and RoHS Compliant

BS EN IEC 61386 Classification Code 445540650314

ARRA Certification

Standard Colors  
Black.

Working Temperatures  
-60°C to 150°C Intermittent to 165°C

## TYPE ATSS

US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS Static (IN.)	WEIGHT Lbs. per 100 Ft.	STANDARD LENGTH					
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)			Coil (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	ATSS-10	0.484	0.504	0.690	0.710	2.0	23	100		500		1000	
1/2"	20	16	ATSS-11	0.622	0.642	0.820	0.840	3.0	28	100		500		1000	
3/4"	25	21	ATSS-12	0.820	0.840	1.030	1.050	4.2	38	100		500		1000	
1"	32	27	ATSS-13	1.041	1.066	1.290	1.315	5.5	62	100		400			
1 1/4"	40	35	ATSS-14	1.380	1.410	1.630	1.660	7.0	79	50		200			
1 1/2"	50	41	ATSS-15	1.575	1.600	1.865	1.900	4.5	103	50		150			
2"	63	53	ATSS-16	2.020	2.045	2.340	2.375	6.0	119	50		100			
3"	80	78	ATSS-18	3.070	3.100	3.460	3.500	10.0	295	25		175			
4"	100	103	ATSS-19	4.000	4.040	4.460	4.500	12.0	410	25		100			

Proudly made in the U.S.A.

### Product Information

#### Certifications & Compliance

Manufactured to UL 360 Dimensions

WEEE and RoHS Compliant

BS EN IEC 61386 Classification Code 445340650314

ARRA Certification

Standard Colors  
Machine Tool Gray.

Working Temperatures  
-55°C to 105°C Intermittent to 120°C

# TYPE CBLA



Computer Blue LA (CBLA) is a liquidtight flexible steel conduit commonly used for computer room installations. The blue jacket color easily identifies circuitry for computer power wiring. It is listed by Underwriters Laboratories Inc. and certified by Canadian Standards Association.

## Construction:

### Inner Core:

- Hot Dipped Galvanized Steel
- 3/8" – 1-1/4" Squarelock Profile with continuous bonding strip
- 1-1/2" – 4" Fully Interlocked Profile

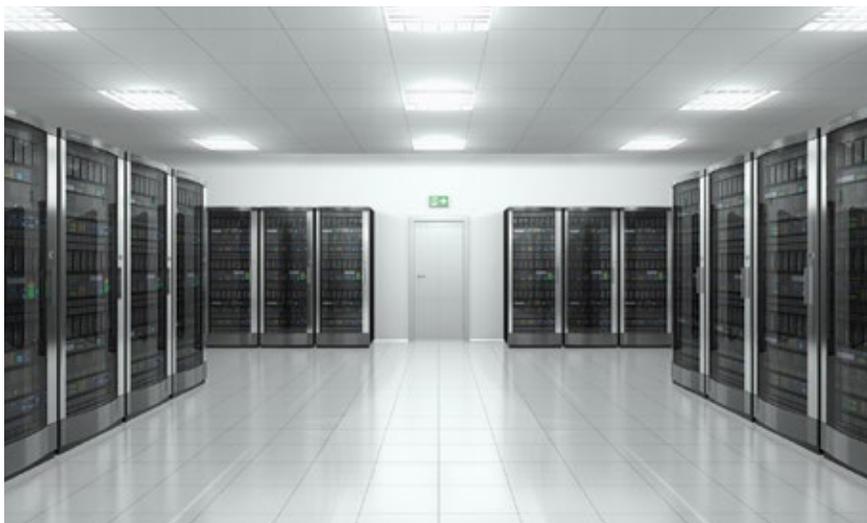
### Liquidtight Jacket:

- Flexible Blue PVC
- Resistant to Oils and Mild Acids
- Flame Retardant
- Sunlight Resistant (UV)

## Application:

This conduit is intended for installation in accordance with Article 350 of the NEC (ANSI/NFPA-70):

- Permitted for use in exposed or concealed locations.
- Installations under raised floors in Data Processing Areas. Article 645.5(E)(2)
- Listed and marked for direct burial and in poured concrete.
- Meets same specifications as Type LA.



Markets:  
• Data Centers



Proudly made in the U.S.A.

## Product Information

### Certifications & Compliance

Listed File # E29278. Conforms to Underwriters Laboratories Standard ANSI/UL-360 for Liquidtight Flexible Steel conduit.

Certified File #LL18858. Conforms to CSA 22.2 No.56 for use per the Canadian Electrical Code C22.1 Section 12-1300. FT1

WEEE and RoHS Compliant

BS EN IEC 61386 Classification Code 444240650414

ARRA Certification

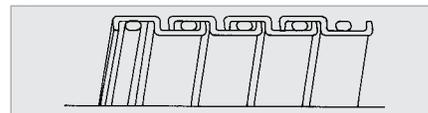
### Standard Colors

Computer Blue.

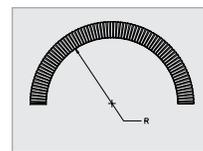
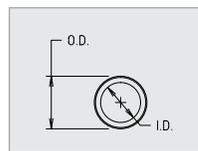
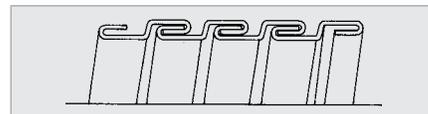
### Working Temperatures

-30°C to 80°C Dry / 60°C Wet / 70°C Oil

### Squarelock with Filler SIZES: 3/8" - 1-1/4"



### Interlock SIZES: 1-1/2" - 4"



US Trade Size	ISO (MM)	CSA (MM)	Type	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS		WEIGHT Lbs. per 100 Ft.	Carton (Ft.)	STANDARD LENGTH				
				Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)			Part # (Blue)	Reel (Ft.)	Part # (Blue)	Reel (Ft.)	Part # (Blue)
3/8"	16	12	CBLA-10	0.484	0.504	0.690	0.710	2.0	4.0	29	100	201014	500	201034	1000	201044
1/2"	20	16	CBLA-11	0.622	0.642	0.820	0.840	3.0	5.0	32	100	211014	500	211034	1000	211044
3/4"	25	21	CBLA-12	0.820	0.840	1.030	1.050	4.2	6.0	53	100	221014	500	221044	1000	221104
1"	32	27	CBLA-13	1.041	1.066	1.290	1.315	5.5	12.0	82	100	231024	400	231044		
1 1/4"	40	35	CBLA-14	1.380	1.410	1.630	1.660	7.0	15.0	102	50	241024	200	241044		
1 1/2"	50	41	CBLA-15	1.575	1.600	1.865	1.900	4.5	17.0	124	50	251024	150	251044		
2"	63	53	CBLA-16	2.020	2.045	2.340	2.375	6.0	22.0	145	50	261024	100	261044		
2 1/2"	70	63	CBLA-17	2.480	2.505	2.840	2.875	8.0	30.0	192	25	271024	275	271054		
3"	80	78	CBLA-18	3.070	3.100	3.460	3.500	10.0	36.0	252	25	281024	175	281054		
3 1/2"	90	91	CBLA-350	3.500	3.540	3.960	4.000	11.0	43.0	308	25	285024	175	285054		
4"	100	103	CBLA-19	4.000	4.040	4.460	4.500	12.0	52.0	350	25	291024	100	291054		

# COLORED CONDUIT

for Custom Installations

The use of colored Type LA conduit saves time and money in maintenance and repair situations, and provides a visible warning to use caution in and around specific areas. They can provide for quick identification of circuits, such as emergency, fire, security and high voltage, as well as many other applications.

- See product pages for standard color
- Standard colors available in stock are for Type LA only.
- Custom colors are available:
  - Minimum order quantities apply
  - Stand put ups
  - Nonreturnable/ Noncancelable



## SUGGESTED APPLICATIONS

CONDUIT COLOR	SUGGESTED APPLICATIONS
Cream	Office Modular Partitions
Brown	Office Modular Partitions
Blue	Computer Rooms/Data Cables, Low Voltage Wiring
Green	Hospitals and Healthcare
Yellow	Caution Areas, Special Equipment, High Voltage Wiring, Earth Moving Equipment
Orange	Construction, Auto Repair, Fiber Optic Systems
Red	Fire Alarms, Security Systems, Emergency Circuits
White	Dairy Equipment, Food Processing Equipment

*\* Standard colors are Black and Gray. Other colors available upon request. We can blend to any color preference. Jacketed materials for extreme temperature and halogen-free applications are also available in colors.*