

FLEXIBLE ELECTRICAL CONDUIT

EMI/RFI Shielded

electri-flex company





















Leadership in flexible

iquatite* 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."

—Н. W. "West" Kinander, Jr.

electrical conduit for over 60 years

The Liquatite Line

The Liquatite 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 Liquatite 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
- 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



















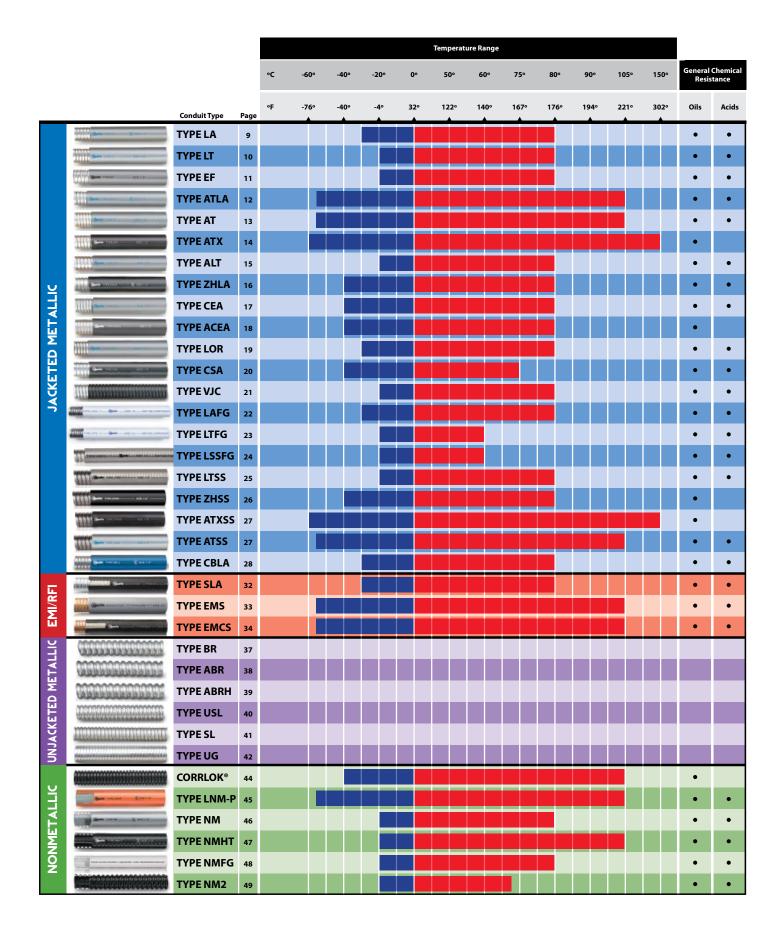


Conduit Application Guide

					Flexil	oility												
		Conduit Type	Page	Continued Flexing	Small Bend Radius	Flexible	Pliable (Static)	Metal Used	Plastic Used	High Mech. Strength	Listed for Direct Burial	Halogen- Free	Low Fire Hazard	Sunlight/ UV Resistant	tight	Self- Extin- guishing	EMI/RFI Shielding	Approval
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		TYPE LT	10		•	•		Steel	PVC					Good	•			(€
	(1)(1)	TYPE EF	11		•	•		Steel	PVC					Good	•			C€
	And the last of the last of	TYPE ATLA	12			•		Steel	PVC	•	•			Best	•	•		₩®CE
		TYPE AT	13		•	•		Steel	PVC					Best	•			C€
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	IIII	TYPE ALT	15			•		Aluminum	PVC					Good	•			C€
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		TYPE LTFG	23		•	•		Steel	PVC					Good	•			NSF/FDA C €
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Š	***************************************	TYPE NMFG	48			•			PVC					Good	•			NSF, FDA
		TYPE NM2	49	•		•			PVC					Good	•	•		A) 4R

*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 Electri-Flex Company, registered in the U.S. Patent and Trademark Office.

Conduit Application Guide



























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

													I	Mai	rke	t									
		ConduitType	Page	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
	1///	TYPE LA	Page 9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•
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RFI	1773	TYPE SLA	32	•	•		•	•			•							•			•		•		
EMI/RFI		TYPE EMS	33	•	•			•			•							•			•		•		
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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, nonhalogen, 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
Million State Stat	TYPE LA	9
Phone and a second	TYPE LT	10
PPP Commercer Access	TYPE EF	11
Com the size Size	TYPE ATLA	12
Charles Street Miles	TYPE AT	13
CAN TUPEATE SIZE 1/2	TYPE ATX	14
	TYPE ALT	15
Services Con	TYPE ZHLA	16
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	TYPE ACEA	18
	TYPE LOR	19
Garage Streets Street	TYPE CSA	20
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TYPE LAYS-11 - Se	TYPE LAFG	22
TYPE LTPG -11 — @wife — 1	TYPE LTFG	23
TOTE LEAVE 11	TYPE LSSFG	24
*************************************	TYPE LTSS	25
////	TYPE ZHSS	26
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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



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



Markets:

Aerospace

Cell Towers

Construction

Data Centers

Defense

Fixture/AC Whips

Food Processing

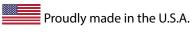
Healthcare

Machine Tools (OEM)

Mining Oil & Gas Refineries

- Power PlantsRail/TransitRenewable
- Energy Security Ship Building Steel Mill Telecom Utilities





Product Information

Certifications & Compliance

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





WEEE and RoHS Compliant

C € BS EN IEC 61386 Classification Code 444240650414

ARRA Certification

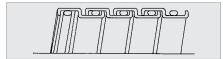
Standard Colors

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

Working Temperatures

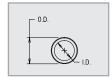
-30°C to 80°C Dry / 60°C Wet / 70°C Oil

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



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







					RNAL METER		TER IETER		E BEND DIUS	WEIGHT				STA	NDARD LEN	IGTH			
US Trade Size	ISO (MM)	CSA (MM)	Туре	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)
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			







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

- Proudly made in the U.S.A.

Product Information

Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant





C € BS EN IEC 61386 Classification Code 443140650314

ARRA Certification

Standard Colors

Machine Tool Gray and Black

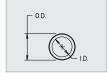
Working Temperatures

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



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







				INTE DIAN		OU DIAN	TER IETER		E BEND DIUS	WEIGHT				STA	NDARD LEN	IGTH			
US Trade Size	ISO (MM)	CSA (MM)	Туре	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



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

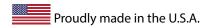
Application:

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









Product Information

Certifications & Compliance

Manufactured to UL 360 Dimensions

C € BS EN IEC 61386 Classification Code 443140650314

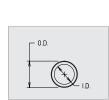
ARRA Certification

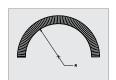
Standard Colors

Machine Tool Gray and Black.

Working Temperatures

-20°C to 80°C





				INTE DIAN	RNAL 1ETER	OU DIAM			E BEND DIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)	Lbs. per 100 Ft.	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		





TYPE ATLA



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.



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Markets:

Construction Data Centers Defense

Mining Oil & Gas Refinerie Power Plants Rail/Tranist Renewable Energ

Product Information

Certifications & Compliance

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



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



WEEE and RoHS Compliant



C € 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















TYPE AT



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

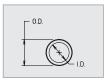
Liquidtight Jacket:

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

Application:

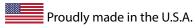
- Machine Tools, Ovens, Foundries, Refrigeration
- Industrial Environments with High / Low Temperatures
- Wet and Oily Locations
- Outdoor use due to the inherent UV resistance of PVC
- **Extreme Climatic Conditions**
- Compatible with standard liquidtight connectors







					RNAL IETER		TER METER		E BEND DIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	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.)	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				



Product Information

Certifications & Compliance

Manufactured to UL 360 Dimensions

Markets: Mining Oil & Gas Refin Renewable Ene



WEEE and RoHS Compliant



C € 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







TYPE ATX



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*





Markets: Mining Oil & Gas Re

Product Information

Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



C € BS EN IEC 61386 Classification Code 445540650314

ARRA Certification

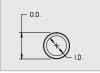
Standard Colors

Black. Other colors available upon request.

Working Temperatures

-60°C to 150°C Intermitting 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.







				INTEI DIAN		OU ⁻ DIAM			E BEND DIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	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.)	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



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

Construction:

Inner Core:

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

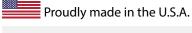
Liquidtight Jacket:

- · Flexible PVC
- · Resistant to Oils and Mild Acids

Application:

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





Product Information

Certifications & Compliance

Manufactured to UL 360 Dimensions

Markets: Aerospace Security Ship Build



WEEE and RoHS Compliant



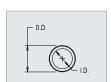
C € BS EN IEC 61386 Classification Code 233140650314

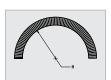
ARRA Certification

Standard Colors

Machine Tool Gray.

Working Temperatures





				INTEI DIAN		OU [.] DIAM		INSIDE BEND RADIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	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



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



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Markets:

Construction Data Centers Defense

Defense Healthcare Mining Oil & Gas Refineri Power Plants Rail/Transit Renewable Energ

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.



WEEE and RoHS Compliant



C € BS EN IEC 61386 Classification Code 445240650414

ARRA Certification

Standard Colors

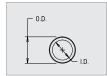
Black. Other colors available upon request.

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
- 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.





				INTE DIAN	RNAL IETER	OU DIAM		INSIDE BEND RADIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (Black)	Reel (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







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



445340650314

ARRA Certification

Standard Colors

Gray and Black. Other colors available upon request.

Working Temperatures

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				



						RNAL IETER	OUTER DIAMETER		INSIDE BEND WEIGHT STANDARD LENGTH									
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min Jacket Thickness	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (Gray)	Part # (Black)	Reel (Ft.)	Part # (Gray)	Part # (Black)		
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							















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
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Product Information

Certifications & Compliance



WEEE and RoHS Compliant



C € BS EN IEC 61386 Classification Code 235240650314

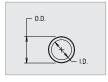
ARRA Certification

Standard Colors

Gray and Black. Other colors available upon request.

Working Temperatures

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 conditi	ions and does not necessarily reflect
performance in actual fire conditions. Additional pr	oduct information available upon request.

					INTERNAL OUTER DIAMETER DIAMET			INSIDE BEND RADIUS	WEIGHT	STANDAR	D LENGTH	
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min Jacket Thickness	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (Gray)
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

Proudly made in the U.S.A.



This product is offered as a non-UL, oil-resistant conduit that incorporates a highquality 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

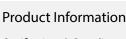
Liquidtight Jacket:

- 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





Certifications & Compliance Manufactured to UL 360 Dimensions

WEEE and RoHS Compliant

C € BS EN IEC 61386 Classification Code 444240650314

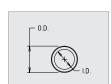
ARRA Certification

Standard Colors

Machine Tool Gray and Black

Working Temperatures

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





				INTE DIAN	RNAL 1ETER				E BEND DIUS	WEIGHT	STANDARD LENGTH					
US Trade Size	ISO (MM)	CSA (MM)	Туре	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.)	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



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)



Proudly made in the U.S.A.

Markets: Mining Oil & Gas Refineries Power Plants Steel Mills Utilities

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



C € BS EN IEC 61386 Classification Code 445240650414

ARRA Certification

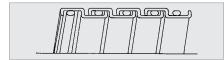
Standard Colors

Black. Other colors available upon request.

Working Temperatures

-40°C to 75°C

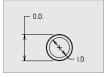
Squarelock with Filler SIZES: 3/8"-1-1/4"



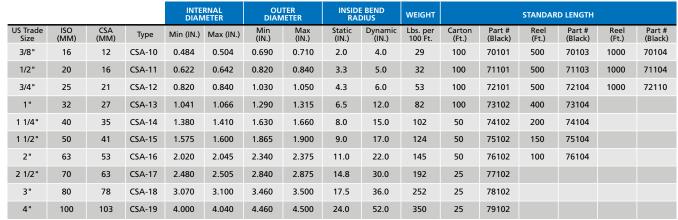
Interlock SIZES: 1-1/2"-4"















TYPE VJC

Markets: Machine Tools (OEM)
 Robotics
 Security





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

Product Information

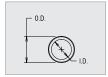
Standard Colors

Working Temperatures

-20°C to 80°C









				INTERNAL DIAMETER		OU DIAN	TER IETER		BEND DIUS	WEIGHT	STANDARD LENGTH	
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)	Lbs. per 100 Ft.	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



TYPE LAFG



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)

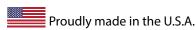
Application:

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



Product Information

Certifications & Compliance

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

Markets:

Food Processi Healthcare



WEEE and RoHS Compliant



ARRA Certification



NSF Certified Component

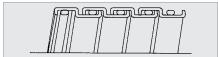
Standard Colors

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"















					RNAL IETER		TER METER		E BEND DIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	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





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:

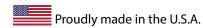
Type LTFG is a Certified Component for NSF/ANSI 169 special purpose food equipment

- · 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





Product Information

Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



C € BS EN IEC 61386 Classification Code 444240650314



NSF NSF Certified Component

ARRA Certification

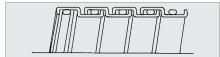
Standard Colors

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

Working Temperatures

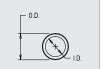
-20°C to 60°C

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



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







				INTE DIAN		OU DIAN			BEND DIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Dynamic (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	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 Processi Healthcare



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

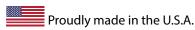
Type LSSFG is a Certified Component for NSF/ANSI 169 special purpose food equipment.

- 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





Product Information

Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant





C € BS EN IEC 61386 Classification Code 444240650314

ARRA Certification



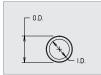
NSF NSF Certified Component

Standard Colors

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

Working Temperatures





STANDARD LENGTH







WEIGHT





TYPE LTSS





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.

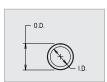
Liquidtight Jacket:

- · Flexible PVC
- · Resistant to Oils and Mild Acids

Application:

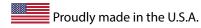
- Machine Tools
- Corrosive Environments
- Industrial Environments
- Wet and Oily Locations
- Outdoor use due to the inherent UV resistance of PVC
- Compatible with standard liquidtight connectors
- Also available in unjacketed stainless steel (p. 36)







					RNAL METER	OU DIAM	TER IETER	INSIDE BEND RADIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Coil (Ft.)	Part #	Reel (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					



Product Information

Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



C € 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







TYPE ZHSS



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:

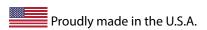
- Corrosion-Resistant continuous strip of 316L Stainless Steel.
- Also available in 304L Stainless Steel, special order only. Minimum order quantities may apply.

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



Markets:

Defense Healthcare Mining Oil & Gas Refiner Power Plants Ship Building Steel Mills Wastewater Trea

Product Information

Certifications & Compliance

Manufactured to UL 360 Dimensions



WEEE and RoHS Compliant



C € BS EN IEC 61386 Classification Code 445240650314

ARRA Certification

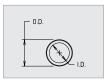
Standard Colors

Black. Other colors available upon request.

Working Temperatures

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					







				INTE DIAN	RNAL IETER	OU [*] DIAM		INSIDE BEND RADIUS	WEIGHT						
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Coil (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #
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



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 Steel Mills Wastewater Treatment

TYPE ATSS



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 Ship Building Healthcare Steel Mills Oill & Gas Refineries Wastewater Power Plants Treatment

TYP	E AT	XSS		INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	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					



TYPI	E AT	SS			RNAL METER		TER IETER	INSIDE BEND RADIUS	WEIGHT			STANDAR	D LENGTH			Proudly made in the U.S.A.
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Coil (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #	Product Information
3/8"	16	12	ATSS-10	0.484	0.504	0.690	0.710	2.0	23	100		500		1000		Certifications & Compliance Manufactured to UL 360 Dimensions
1/2"	20	16	ATSS-11	0.622	0.642	0.820	0.840	3.0	28	100		500		1000		WEEE and RoHS Compliant
3/4"	25	21	ATSS-12	0.820	0.840	1.030	1.050	4.2	38	100		500		1000		€ BS EN IEC 61386 Classification Code
1"	32	27	ATSS-13	1.041	1.066	1.290	1.315	5.5	62	100		400				445340650314
1 1/4"	40	35	ATSS-14	1.380	1.410	1.630	1.660	7.0	79	50		200				ARRA Certification
1 1/2"	50	41	ATSS-15	1.575	1.600	1.865	1.900	4.5	103	50		150				Standard Colors Machine Tool Gray.
2"	63	53	ATSS-16	2.020	2.045	2.340	2.375	6.0	119	50		100				Working Temperatures
3″	80	78	ATSS-18	3.070	3.100	3.460	3.500	10.0	295	25		175				-55°C to 105°C Intermitting to 120°C
4"	100	103	ATSS-19	4.000	4.040	4.460	4.500	12.0	410	25		100				













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:

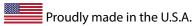
This conduit is intended for installation in accordance with Article 350 of the NEC (ANSI/NFPA-70):

- 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.









Product Information

Certifications & Compliance

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





CE BS EN IEC 61386 Classification Code 444240650414

ARRA Certification

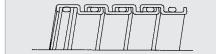
Standard Colors

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"













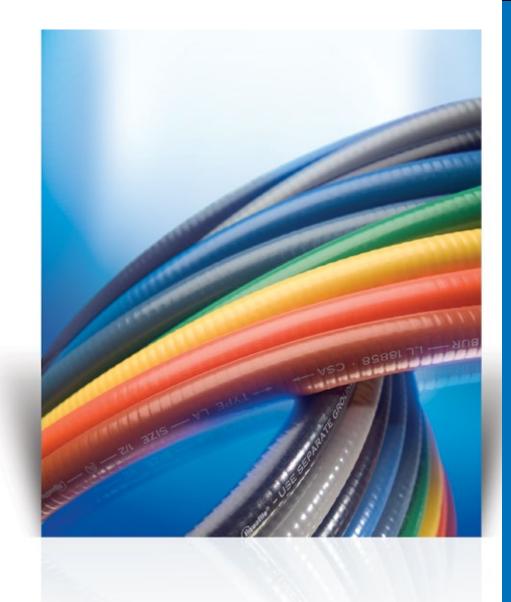


COLORED CONDUIT

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.

EMI/RFI Shielded

Electri-Flex Company offers three types of flexible liquidtight conduits designed for wiring applications requiring shielding effectiveness from Electromagnetic and Radio Frequency Interference (EMI/RFI).

Shielded conduit provides exceptional shielding effectiveness from electromagnetic and radio frequency interference (EMI/RFI). Use it to protect sensitive electronic circuits from outside noise in such applications as communications, radar and data transmission. But shielded conduit doesn't just keep interference out, it also keeps emissions in, which is vital to meeting European CE standards - an important issue for OEMs. Additionally, shielding conduits provide a redundant EMI/RFI system protection when using shielded cables with EMI/RFI shielded enclosures.

All three are designed to accept industry standard liquidtight connectors and address the problems of assembly and grounding. Connectors of this type include a grounding ferrule, which contacts the internal metallic material of the conduit and the connector body. This produces a direct shield-to-drain or ground, simply by tightening the connector.

Conduit Type Page **TYPE SLA** 32 **TYPE EMS** 33 **TYPE EMCS** 34 **TYPE HFSLA TYPE HFEMS** 35 TYPE HFEMCS 35



SHIELD-FLEX conduit allows for greater versatility than shielded cable in wiring configurations and retrofitting projects. With three levels of effectiveness to choose from, SHIELD-FLEX meets your needs.

Distinctive Characteristics May Include:

- UL Listed (Type SLA)
- Accepts standard liquidtight fittings
- · Withstands wide temperature ranges
- Three levels of EMI/RFI protection
- **WEEE and RoHS Compliant**
- Halogen-Free Also Available

Markets We Serve:

- Medical
- Military
- Industrial
- Government/Defense
- Commercial
- Telecommunications
- **Aerospace**
- **Public Transit**
- Utilities

Applications/Markets:

- Air Handling Equipment (HVAC)
- Test & Measurement Equipment
- **Data Centers**
- Variable Speed Drives
- Commercial-off-the-shelf (COTS) (CAGE Code: 09641)
- **CE-European Standard**
- Radio Broadband/Antenna
- Solar/Wind Energy
- Ship Building
- **Medical Diagnostics Equipment**
- **Wireless Communication**
- Healthcare/Medical

Shielded flexible conduits allow for greater versatility for wiring configurations and retrofitting than is experienced with shielded cable assemblies.

All three of these easy-to-install shielding conduits offer a "good–better–best" scenario as shown in the Shielding Effectiveness chart below. We use a combination of steel or

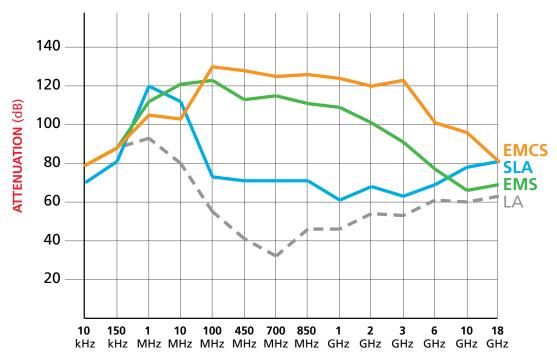
bronze flexible cores coupled with a tinned copper braid to achieve not only the required EMI/RFI protection, but also the added protection from crushing, impact and abrasion.

The outer jacketing material may be modified to accommodate a variety of environmental conditions, with materials ranging from standard PVC to halogen-free polyurethane to high/low temperature thermoplastics.



Shielding Effectiveness

The graph below depicts a general comparative shielding effectiveness (attenuation in dBs) of all three types of SHIELD-FLEX conduit. The dotted line indicates a comparison to standard unshielded liquidtight flexible conduit Type LA. The spectrum of test frequency is from 10 kHz to 10 MHz Electric Field, to 100 MHz to 1 GHz Planewave Field and 2 GHz to 18 GHz Microwave Field. Tests were performed per MIL-STD-285 and in general accordance with IEEE 299. 1" trade size conduit was tested using standard liquidtight fittings from Thomas & Betts Series 5300. Results are based on controlled laboratory conditions and may vary in actual field installed conditions.



TEST FREQUENCY

TYPE SLA



Type SLA is identical to standard UL Listed liquidtight flexible steel conduit (See Type LA) but is augmented with a tinned copper shielding braid located over the inner steel core and under its protective PVC jacket. The braid offers a minimum of 90% coverage. For a low-smoke, low-flame spread, zero-halogen version, ask for HFSLA (p. 35).

Construction:

Inner Core:

- Hot Dipped Galvanized Steel
- 3/8" 1-1/4" Squarelock Profile with continuous bonding strip
- 1-1/2" 2" Fully Interlocked Profile
- Shielded with a tinned copper braid

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)

- Suitable as an equipment grounding conductor per Article 250.118(7). Larger sizes require separate grounding conductor.
- Suitable for use in hazardous locations: Class I, Div. 2 and Classes II and III.
- · Accepts Standard Metallic Liquidtight Fittings
- Designed for wiring applications requiring shielding effectiveness from Electromagnetic and Radio Frequency Interference (EMI/RFI)

Shield-Flex, SLA, and HFSLA are trademarks of Electri-Flex Company, registered in the U.S. Patent and Trademark Office.



Proudly made in the U.S.A.

Markets:

Aerospace Cell Towers Data Centers Defense Healthcare Renewable Energy Ship Building Telecommunication

Product Information

Certifications & Compliance

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



WEEE and RoHS Compliant



ARRA Certification

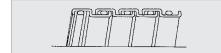
Standard Colors

Black. Other colors and jacketing materials available upon request

Working Temperatures

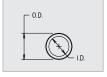
-30°C to 80°C Dry / 60°C Wet / 70°C Oil

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















					RNAL IETER		OUTER INSIDE BEND WEIGHT STANDARD			D LENGTH					
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (black)	Reel (Ft.)	Part # (black)	Reel (Ft.)	Part # (black)
3/8"	16	12	SLA-10	0.484	0.504	0.690	0.710	2.0	29	100	78901	500	78903	1000	78904
1/2"	20	16	SLA-11	0.622	0.642	0.820	0.840	3.0	32	100	78911	500	78913	1000	78914
3/4"	25	21	SLA-12	0.820	0.840	1.030	1.050	4.2	53	100	78921	500	78924		
1"	32	27	SLA-13	1.041	1.066	1.290	1.315	5.5	82	100	78932	400	78934		
1 1/4"	40	35	SLA-14	1.380	1.410	1.630	1.660	7.0	102	50	78942	200	78944		
1 1/2"	50	41	SLA-15	1.575	1.600	1.865	1.900	4.5	124	50	78952	150	78954		
2"	63	53	SLA-16	2.020	2.045	2.340	2.375	6.0	145	50	78962	100	78964		

TYPE EMS

- Markets: Aerospace Cell Towers Defense



Type EMS has an inner core that is made from a fully interlocked bronze strip and does not contain a braided shield. For a low-smoke, low flame spread, zero-halogen version, ask for HFEMS (p. 35).

Construction:

Inner Core:

- Bronze
- 3/8" 4" Fully Interlocked Profile

Liquidtight Jacket:

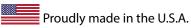
- · Flexible PVC
- · Resistant to Oils and Mild Acids
- Flame Retardant
- Sunlight Resistant (UV)

Application:

- Accepts Standard Metallic Liquidtight Fittings
- Designed for wiring applications requiring shielding effectiveness from Electromagnetic and Radio Frequency Interference (EMI/RFI)

Shield-Flex, EMS and HFEMS are trademarks of Electri-Flex Company, registered in the U.S. Patent and Trademark Office





Product Information

Certifications & Compliance



WEEE and RoHS Compliant



(€ BS EN IEC 61386 Classification Code 445340650314

ARRA Certification

Standard Colors

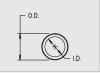
Gray. Other colors and jacketing materials available upon request

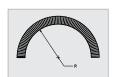
Working Temperatures

-55°C to 105°C

Interlock







					RNAL IETER		TER IETER	INSIDE BEND RADIUS	WEIGHT	STANDARD LENGTH		D LENGTH	
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (Gray)	Reel (Ft.)	Part # (Gray)
3/8"	16	12	EMS-10	0.484	0.504	0.690	0.710	3.0	27	100	78801	1000	78804
1/2"	20	16	EMS-11	0.622	0.642	0.820	0.840	3.0	35	100	78811	1000	78814
3/4"	25	21	EMS-12	0.820	0.840	1.030	1.050	4.0	43	100	78822	500	78824
1"	32	27	EMS-13	1.041	1.066	1.290	1.315	4.0	85	100	78832	400	78834
1 1/4"	40	35	EMS-14	1.380	1.410	1.630	1.660	4.5	101	50	78842	200	78844
1 1/2"	50	41	EMS-15	1.575	1.600	1.865	1.900	7.0	140	50	78852	150	78854
2"	63	53	EMS-16	2.020	2.045	2.340	2.375	9.5	180	50	78862	100	78864
2 1/2"	70	63	EMS-17	2.480	2.505	2.840	2.875	12.0	232	25	78872		
3"	80	78	EMS-18	3.070	3.100	3.460	3.500	13.5	320	25	78882		
4"	100	103	EMS-19	4.000	4.040	4.460	4.500	17.0	388	25	78892		







TYPE EMCS



Type EMCS is a hybrid of SLA and EMS. It utilizes the same bronze core and PVC jacket as EMS, but gets further screening protection from a tinned copper braid as found in the SLA product. For a low-smoke, low flame spread, zero-halogen version, ask for HFEMCS (p. 35).

Construction:

Inner Core:

- Bronze
- 3/8" 2" Fully Interlocked Profile
- Shielded with a tinned copper braid

Liquidtight Jacket:

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

Application:

- · Accepts Standard Metallic Liquidtight Fittings
- Designed for wiring applications requiring shielding effectiveness from Electromagnetic and Radio Frequency Interference (EMI/RFI)

Shield-Flex, SLA, EMS, EMCS and HFEMCS are trademarks of Electri-Flex Company, registered in the U.S. Patent and Trademark Office.



Proudly made in the U.S.A.

Markets:

Aerospace Cell Towers Defense Healthcare Renewable Energy Ship Building Telecommunication

Product Information

Certifications & Compliance



WEEE and RoHS Compliant



CE BS EN IEC 61386 Classification Code 445340650314

ARRA Certification

Standard Colors

Black. Other colors and jacketing materials available upon request

Working Temperatures

Interlock





OUTER DIAMETER

Max (IN.)

0.710

0.840

1.050

1.315

1.660

1.900

2.375

Min (IN.)

0.690

0.820

1.030

1.290

1.630

1.865

2.340



WEIGHT

Lbs. per 100 Ft.

27

35

43

85

101

140

180

Carton (Ft.)

100

100

100

100

50

50

50

INSIDE BEND RADIUS

3.0

3.0

4.0

4.0

4.5

7.0

9.5



Part # (Black)

78703

78713

78724

78734

78744

78754

78764

STANDARD LENGTH

500

500

400

200

150

100

Part # (Black)

78701

78711

78722

78732

78742

78752

78762



 ϵ













CSA (MM)

12

21

35

41

Type

EMCS-10

EMCS-11

EMCS-12

EMCS-13

EMCS-14

EMCS-15

EMCS-16

ISO (MM)

16

25

40

50

63

3/8"

1/2"

3/4"

1 1/4"

1 1/2"

INTERNAL DIAMETER

Max (IN.)

0.504

0.642

0.840

1.066

1.410

1.600

2.045

Min (IN.)

0.484

0.622

0.820

1.041

1.380

1.575

2.020

HALOGEN-FREE (HF) SERIES



For a low-smoke, low-flame spread, zero-halogen version, ask for HFSLA, HFEMS or HFEMCS. It's ideal for field installation in confined, public areas such as subways, tunnels, etc.

There are many situations and areas where PVC is not allowed for electrical construction. The jacketing material used in the Halogen-Free Series virtually eliminates the release of acidic gases found in PVC products.

COMBUSTION & FLAMMABILITY	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.

TYPE HFSLA			Α	INTERNAL DIAMETER		OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT			STANDAR	RD LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (black)	Reel (Ft.)	Part # (black)	Reel (Ft.)	Part # (black)
3/8"	16	12	HFSLA-10	0.484	0.504	0.690	0.710	2.0	29	100	789012	500	789032	1000	789042
1/2"	20	16	HFSLA-11	0.622	0.642	0.820	0.840	3.0	32	100	789128	500	789137	1000	789148
3/4"	25	21	HFSLA-12	0.820	0.840	1.030	1.050	4.2	53	100	789228	500	789247		
1"	32	27	HFSLA-13	1.041	1.066	1.290	1.315	5.5	82	100	789328	400	789347		
1 1/4"	40	35	HFSLA-14	1.380	1.410	1.630	1.660	7.0	102	50	789428	200	789447		
1 1/2"	50	41	HFSLA-15	1.575	1.600	1.865	1.900	4.5	124	50	789528	150	789547		
2"	63	53	HFSLA-16	2.020	2.045	2.340	2.375	6.0	145	50	789628	100	789647		

TYP	TYPE HFEMS			INTE DIAN	RNAL IETER	OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT		STANDAR	D LENGTH	
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (Gray)	Reel (Ft.)	Part # (Gray)
3/8"	16	12	HFEMS-10	0.484	0.504	0.690	0.710	3.0	27	100	78201	1000	78204
1/2"	20	16	HFEMS-11	0.622	0.642	0.820	0.840	3.0	35	100	78211	1000	78214
3/4"	25	21	HFEMS-12	0.820	0.840	1.030	1.050	4.0	43	100	78221	500	78224
1"	32	27	HFEMS-13	1.041	1.066	1.290	1.315	4.0	85	100	78232	400	78234
1 1/4"	40	35	HFEMS-14	1.380	1.410	1.630	1.660	4.5	101	50	78242	200	78244
1 1/2"	50	41	HFEMS-15	1.575	1.600	1.865	1.900	7.0	140	50	78252	150	78254
2"	63	53	HFEMS-16	2.020	2.045	2.340	2.375	9.5	180	50	78262	100	78264
2 1/2"	70	63	HFEMS-17	2.480	2.505	2.840	2.875	12.0	232	25	78272		
3"	80	78	HFEMS-18	3.070	3.100	3.460	3.500	13.5	320	25	78282		
4"	100	103	HFEMS-19	4.000	4.040	4.460	4.500	17.0	388	25	78292		

TYP	TYPE HFEMCS				RNAL IETER	OUTER DIAMETER		INSIDE BEND RADIUS	WEIGHT		STANDAR	D LENGTH	
US Trade Size	ISO (MM)	CSA (MM)	Type	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	HFEMCS-10	0.484	0.504	0.690	0.710	3.0	27	100	86001	500	86003
1/2"	20	16	HFEMCS-11	0.622	0.642	0.820	0.840	3.0	35	100	86101	500	86103
3/4"	25	21	HFEMCS-12	0.820	0.840	1.030	1.050	4.0	43	100	86201	500	86204
1"	32	27	HFEMCS-13	1.041	1.066	1.290	1.315	4.0	85	100	86302	400	86304
1 1/4"	40	35	HFEMCS-14	1.380	1.410	1.630	1.660	4.5	101	50	86402	200	86404
1 1/2"	50	41	HFEMCS-15	1.575	1.600	1.865	1.900	7.0	140	50	86502	150	86504
2"	63	53	HFEMCS-16	2.020	2.045	2.340	2.375	9.5	180	50	86602	100	86604









UNJACKETED METALLIC

This series of flexible metal conduits are free of nonmetallic materials and offer the highest physical protection to electrical wiring. Available in a wide range of sizes and types. For more information on our Unjacketed Metallic Conduits, see below for an overview or continue through this section.

Conduit Type		Page
	TYPE BR	37
سسس	TYPE ABR	38
	TYPE ABRH	39
	TYPE USL	40
	TYPE SL	41
	TYPE UG	42
	WHIPS	43

Distinctive Characteristics May Include:

- UL recognized, UL listed, CSA certified
- WEEE and RoHS Compliant
- · High impact and crush strength
- Tight bends
- Wide range of sizes
- Non-combustible

Applications:

- · Commercial and Residential Construction
- Manufactured Wiring Systems
- High Temperature
- · Plenum Ceilings
- Lighting Fixtures and Appliances



Stainless Steel Interlock Conduit

Features:

- · Corrosion-Resistant
- Available in 304L or 316L Stainless Alloys
- · Consult factory for sizes
- Made in USA

TYPE BR



"Blue Ribbon" (BR) This UL listed non-jacketed flexible steel conduit has many universal wiring applications. It is often referred to as "Greenfield" or "Reduced Wall Flex".

Construction:

- Hot Dipped Galvanized Steel
- · Helically wound, formed strip
- Reduced Wall Steel Gauge

Application:

This conduit is intended for installation as a metal raceway for wires and cable in accordance with the NEC (ANSI/NFPA-70). Article 348.

- Permitted to be used in exposed and concealed locations (Section 348.10)
- For containment of 1000 volt and lower potential circuits (Unless otherwise permitted)
- Grounding conductor requirement for flexible installations (Section 348.60)
- Suitable as an equipment grounding conductor (Section 250.118(5))
- Wiring in elevators, hoist ways and escalators. (Section 620.21)
- Limit on use of 3/8 inch trade size. (Section 348.20)
- Raceway connection to motors (Section 430.223)
- Cranes and hoists (Section 610.11)
- Manufactured Wiring Systems (Section 604.6(a))
- Suitable for use with listed connectors intended for FMC (Flexible Metal Conduit)
- Flexible metal conduit is also permitted for use on industrial machinery (ANSI/NFPA-79) (Section 14.5.4).

Proudly made in the U.S.A.

Markets:
Construction
Fixture/AC Whips
Security
Utilities
Wastewater Treat

Product Information

Certifications & Compliance

Listed File #E53253 (sizes 3/8 through 3 inch). Conforms to Underwriters
Laboratories Standard ANSI/UL-1 for
Flexible Metal Conduit.



Meets federal specification A-A-55810 Type IV (Formerly WW-C-566c Type II).

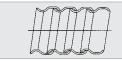


WEEE and RoHS Compliant

BS EN IEC 61386 Classification Code 455740300314

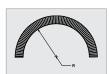
ARRA Certification

Types BR and ABR Strip Profile











					RNAL METER	OU DIAN		INSIDE BEND RADIUS	WEIGHT		Part # Coil Part # Coil Part # (Ft.) Part # (Ft.) (Ft.) Part # (Ft.) (Ft.) Part # (Ft.) (Ft.) Part # (Ft.) (Ft.) (Ft.) Part # (Ft.) (Ft.)								
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Coil (Ft.)	Part #	Coil (Ft.)	Part #	Coil (Ft.)	Part #	Coil (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	BR-10	0.375	0.393	0.560	0.610	2.0	18	25	69308	50	69309	100	69301	250	69302	1000	69304
1/2"	20	16	BR-11	0.625	0.645	0.860	0.920	3.0	28	25	69318	50	69319	100	69311			1000	69312
3/4"	25	21	BR-12	0.812	0.835	1.045	1.105	4.0	33	25	39628	50	69329	100	69322			500	69324
1"	32	27	BR-13	1.000	1.040	1.300	1.380	5.0	52	25	69338	50	69332					400	69334
1 1/4"	40	35	BR-14	1.250	1.300	1.550	1.630	6.2	65			50	69342					400	69344
1 1/2"	50	41	BR-15	1.500	1.575	1.850	1.950	7.5	80	25	69352							300	69354
2"	63	53	BR-16	2.000	2.080	2.350	2.454	10.0	99	25	69362							150	69364
2 1/2"	70	63	BR-17	2.500	2.700	2.860	3.060	12.5	166	25	69372								
3"	80	78	BR-18	3.000	3.200	3.360	3.560	15.0	190	25	69382								
3 1/2"	90	91	BR-350	3.500		3.860	4.060	17.5	170	25	69387								
4"	100	103	BR-19	4.000		4.360	4.560	20.0	200	25	69392								

TYPE ABR



Aluminum "Blue Ribbon" (ABR) This UL listed non-jacketed flexible aluminum conduit has many universal wiring applications. It is often referred to as "Greenfield" or "Reduced Wall Flex".

Construction:

- · High Strength Aluminum Alloy
- Helically wound, formed strip
- Reduced Wall Aluminum Gauge
- · Approximately 1/3 the weight of RWS

Application:

This conduit is intended for installation as a metal raceway for wires and cable in accordance with the NEC (ANSI/NFPA-70). Article 348.

- Permitted to be used in exposed and concealed locations (Section 348.10)
- For containment of 1000 volt and lower potential circuits (Unless otherwise permitted)
- Grounding conductor requirement for flexible installations (Section 348.60)
- Suitable as an equipment grounding conductor (Section 250.118(5))
- Wiring in elevators, hoist ways and escalators. (Section 620.21)
- Limit on use of 3/8 inch trade size. (Section 348.20)
- Raceway connection to motors (Section 430.223)
- Cranes and hoists (Section 610.11)
- Manufactured Wiring Systems (Section 604.6(a))
- Suitable for use with listed connectors intended for FMC (Flexible Metal Conduit)
- · Flexible metal conduit is also permitted for use on industrial machinery (ANSI/NFPA-79) (Section 14.5.4).



Proudly made in the U.S.A.

Markets:

Construction Fixture/AC Whips Security

Product Information

Certifications & Compliance

UL Listed File #E53253 (sizes 3/8 &1/2 through 3 inch). Conforms to **Underwriters Laboratories**

> Standard ANSI/UL-1 for Flexible Metal Conduit.

Certified File #LL18858 (3/8 & 7/16 inch size only) Conforms to CSA 22.2 No. 56 for use per the Canadian electrical code C22.1 Section 12-1000.

> Meets Federal Specification A-A-55810 Type II. (Formerly WW-C-566c Type I)



WEEE and RoHS Compliant

C € BS EN IEC 61386 Classification Code 445740300213

ARRA Certification

Types BR and ABR Strip Profile











				INTEI DIAN		OU DIAN		INSIDE BEND RADIUS	WEIGHT				STANDAR	D LENGTH			
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Coil (Ft.)	Part #	Coil (Ft.)	Part #	Coil (Ft.)	Part #	Coil (Ft.)	Part #
3/8"	16	12	ABR-10	0.375	0.393	0.560	0.610	2.0	7.0	25	69408	50	69409	100	69401	1000	69404
7/16"		14	ABR-716	0.437	0.457		0.675	2.25	7.7	25		50		100	69400	1000	694043
1/2"	20	16	ABR-11	0.625	0.645	0.860	0.920	3.0	9.5	25	69418	50	69419	100	69411	1000	69414
3/4"	25	21	ABR-12	0.812	0.835	1.045	1.105	4.0	13.5	25	69428	50	69429	100	69422	500	69424
1"	32	27	ABR-13	1.000	1.040	1.300	1.380	5.0	18.0			50	69432			400	69434
1 1/4"	40	35	ABR-14	1.250	1.300	1.550	1.630	6.2	22.0			50	69442			400	69444
1 1/2"	50	41	ABR-15	1.500	1.575	1.850	1.950	7.5	26.0			25	69452			300	69454
2"	63	53	ABR-16	2.000	2.080	2.350	2.454	10.0	35.0			25	69462			150	69464
2 1/2"	70	63	ABR-17	2.500	2.700	2.860	3.060	12.5	57.0			25	69472				
3"	80	78	ABR-18	3.000	3.200	3.360	3.560	15.0	70.0			25	69482				
3 1/2"	90	91	ABR-350	3.500		3.860	4.060	17.5	58.0			25	69487				
4"	100	103	ABR-19	4.000		4.360	4.560	20.0	70.0			25	69492				

TYPE ABRH

Markets:



This CSA-certified, non-jacketed flexible aluminum conduit has many universal wiring applications. It is often referred to as "Heavy Wall Flex".

Construction:

- · High Strength Aluminum Alloy
- Helically wound, formed strip
- · Heavy Gauge

Application:

In addition to meeting the UL and NEC requirements noted for Type ABR, Reduced Wall Aluminum Conduit, ABRH is also:

- Intended as a metal raceway for wires and cable in accordance with Canadian Electrical Code (CEC) C22.1 Section 12-1000.
- Suitable for use with listed connectors intended for FMC (Flexible Metal Conduit)





Proudly made in the U.S.A.

Product Information

Certifications & Compliance

Listed File #E53253 (sizes 1/2 through 4 inch). Conforms to Underwriters Laboratories Standard ANSI/UL-1 for Flexible Metal Conduit.



Meets Federal Specification A-A-55810 Type I.



WEEE and RoHS Compliant

C € BS EN IEC 61386 Classification Code 455740300213

ARRA Certification

Types ABRH Strip Profile







					RNAL IETER		TER METER	INSIDE BEND RADIUS	WEIGHT			STANDAR	D LENGTH		
US Trade Size	ISO (MM)	CSA (MM)	Type	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Coil (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	ABRH-10	0.375	0.393	0.560	0.610	2.0	7	100	69701	500	69703	1000	69704
7/16"			ABRH-716	0.437	0.457		0.675	2.25	8	100	69707	500	69708	1000	69709
1/2"	20	16	ABRH-11	0.625	0.645	0.860	0.920	3.0	16	100	69711	500	69713	1000	69714
3/4"	25	21	ABRH-12	0.812	0.835	1.045	1.105	4.0	18	100	69722	500	69723	1000	69724
1"	32	27	ABRH-13	1.000	1.040	1.300	1.380	5.0	35	50	69732			400	69734
1 1/4"	40	35	ABRH-14	1.250	1.300	1.550	1.630	6.2	43	50	69742			400	69744
1 1/2"	50	41	ABRH-15	1.500	1.575	1.850	1.950	7.5	55	25	69752			100	69753
2"	63	53	ABRH-16	2.000	2.080	2.350	2.454	10.0	73	25	69762				
2 1/2"	70	63	ABRH-17	2.500	2.700	2.860	3.060	12.5	90	25	69772				
3"	80	78	ABRH-18	3.000	3.200	3.360	3.560	15.0	107	25	69782				
4"	100	103	ABRH-19	4.000		4.360	4.560	20.0	142	25	69792				





TYPE USL



This extra-flexible steel conduit is recognized by UL and CSA for use within listed and certified assemblies.

Construction:

- Hot Dipped Galvanized Steel
- Helically wound, formed strip

Application:

- Intended as a factory installed component
- Modular Office Partitions
- Showcase Lighting
- Range Hoods
- Mates with a variety of setscrew and clamp type connectors



Proudly made in the U.S.A.

Markets:

Product Information

Certifications & Compliance

**Dulk Recognized File #E53253

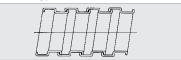
CSA Report # LO 4000-4875



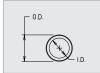
WEEE and RoHS Compliant

ARRA Certification

Squarelock - Type USL









				INTE DIAN	RNAL IETER		TER Ieter	INSIDE BEND RADIUS	WEIGHT	STANDARI	D LENGTH
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Coil (Ft.)	Part # (Gray)
			USL-516	0.297	0.327	0.457	0.487	1 1/4	12	250	91402
			USL-380	0.360	0.390	0.520	0.550	1 1/4	15	250	92402
			USL-716	0.422	0.452	0.572	0.612	1 1/2	17	250	93402
3/8"	16	12	USL-120	0.485	0.515	0.645	0.675	1 1/2	19	250	94402
			USL-916	0.557	0.577	0.707	0.737	1 1/2	20	250	95402
1/2"	20	16	USL-580	0.622	0.642	0.732	0.765	2	24	100	96402
3/4"	25	21	USL-340	0.820	0.840	0.930	0.960	2	32	100	97402

TYPE SL



This non-UL, extra-flexible product, available in the smaller diameters, is designed for tight-spot installation and where continuous flexing is required of a steel wound hose.

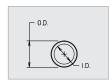
Construction:

- Electro-Galvanized Steel
- Helically wound, formed strip

Application:

Offers good mechanical protection to wiring in a variety of OEM applications.



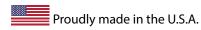




			RNAL IETER		TER IETER	INSIDE BEND RADIUS	WEIGHT	STANDAR	D LENGTH
US Trade Size	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part # (Gray)
	SL-316	0.172	0.202	0.280	0.310	0.75	5	250	91202
	SL-140	0.235	0.265	0.328	0.358	0.75	6	250	92202
5/16"	SL-516	0.297	0.327	0.391	0.421	0.75	7	250	93202
	SL-380	0.360	0.390	0.485	0.515	1.00	8	250	94202
	SL-716	0.422	0.452	0.547	0.577	1.00	9	250	95202
3/8"	SL-10	0.493	0.512	0.617	0.637	1.00	10	250	96202
	SL-916	0.547	0.577	0.672	0.702	1.25	12	150	99206
1/2"	SL-11	0.622	0.642	0.747	0.767	1.50	15	150	97202
	SL-11M	0.650	0.670	0.775	0.795	1.50	15	150	972021
	SL-340	0.735	0.765	0.865	0.895	1.50	17	150	98202
3/4"	SL-12	0.827	0.847	0.957	0.977	2.00	18	100	98222
1"	SL-13	1.041	1.066	1.191	1.216	2.00	27	50	98232
	SL-13M	1.102	1.122	1.252	1.272	2.00	27	50	982321



Markets:



Product Information

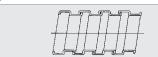
Certifications & Compliance



WEEE and RoHS Compliant

ARRA Certification

Squarelock



TYPE UG



A fully-interlocked, non-UL flexible steel conduit designed for high strength in "tightspot" installations.

Construction:

- Brite Tin Plated Steel
- · Helically wound, interlocking formed strip
- Note: Electrical trade sizes do not apply to Type UG

- The bright appearance of the finished product lends itself to installations where the conduit may be visible after the final assembly.
- Mates with a variety of setscrew and clamp type connectors.



Proudly made in the U.S.A.

Markets:

Product Information

Certifications & Compliance



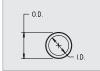
WEEE and RoHS Compliant

ARRA Certification

Interlock









		RNAL IETER		TER IETER	INSIDE BEND RADIUS	WEIGHT	STANDAR	D LENGTH
Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Coil (Ft.)	Part # (Gray)
UG-380	0.443	0.473	0.563	0.593	2.5	16	50	91101
UG-120	0.755	0.785	0.875	0.905	3.0	22	50	92101
UG-340	0.943	0.973	1.063	1.093	3.5	26	50	93101
UG-100	1.208	1.238	1.328	1.358	4.5	34	50	94101
UG-125	1.485	1.515	1.578	1.608	5.5	50	50	95101
UG-150	1.735	1.765	1.843	1.873	6.5	56	50	96101
UG-200	2.235	2.265	2.390	2.420	8.5	80	50	97101
UG-250	2.735	2.765	2.937	2.967	10.5	85	50	98101
UG-300	3.360	3.390	3.438	3.468	13.0	105	50	99101

FLEXIBLE WHIPS



Used for lighting fixture installations as well as many other electrical equipment uses. These metallic whips consist of UL listed flexible metal conduit Type BR, stranded (stock) or solid THHN wire with 6" leads, and internal, zinc die-cast fittings with steel locknuts.

Construction:

- Hot Dipped Galvanized Steel
- · Helically wound, formed strip
- · Reduced Wall Steel Gauge

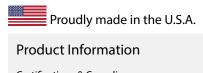
Application:

Fixture Whips are made per NEC requirements unless otherwise specified and are UL listed under Wiring Assemblies (QQYZ) category.

- AWG 14 = 15 Amp
- AWG 12 = 20 Amp
- Additional configurations available upon request.
- Packaged in 25 piece cartons and 250 piece drums.
- · For further information and NEC Code applications, see Type BR.

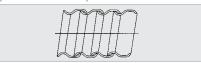
Options Available:

- Aluminum Conduit Pre-Assembled Whips
- Liquatite Metallic Whips
- Solid and Stranded Conductors
- Snap-In Connectors
- · Additional configurations available upon request
- Packaged in 25 piece cartons and 250 piece drums
- LED Luminaire Fixture Whips

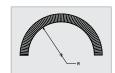




Types BR and ABR Strip Profile







PART NUMBER	TRADE SIZE	LENGTH	WIRE GAUGE & 0	CONFIGURATION	QUANTITY
SW10122	3/8"	72"	12/2	BLK-WT	25, 250
SW10123	3/8"	72"	12/3	BLK-WT-GRN	25, 250
SW10142	3/8"	72"	14/2	BLK-WT	25, 250
SW10143	3/8"	72"	14/3	BLK-WT-GRN	25, 250
SW10144	3/8"	72"	14/4	BLK-WT-RED	25, 250
SW10182	3/8"	72"	18/2	BLK-WT	25, 250
SW10183	3/8"	72"	18/3	BLK-WT-GRN	25, 250



NONMETALLIC

Nonmetallic flexible conduits are made without a metal core and are ideal for corrosive environments, high flexing applications and where weight might be an issue. Materials used are flexible and rigid PVC. For more information on our Nonmetallic Conduits, see below for an overview or continue through this section.

Conduit Type		Page
	CORRLOK	See Below
Gas Treatment (Canada	TYPE LMN-P	45
Guelle 1995 MI	TYPE NM	46
Carlo Tree labor (1) and 1/2	ТҮРЕ ММНТ	47
GLECTRE PLOT CO. THIS MAPS - LIQUIDITE BEST LIQUIDITE.	TYPE NMFG	48
	TYPE NM2	49
46 60 0	TYPE NMLT & NMSC	50
9	NONMETALLIC A/C WHIPS	51

Distinctive Characteristics May Include:

- UL recognized, UL listed, CSA certified
- NSF Certified
- WEEE and RoHS Compliant
- Flame- and sunlight-resistant
- Tight bends
- Wide temperature ranges

Applications/Vertical Markets:

- Air Conditioning Hookups
 Oil & Gas
- Machine Tools
- Cable Carriers
- Pools and Spas
- Outdoor Wiring
- Solar/Alternative Energy
- Power Trac

- Cell Towers
- Data Centers
- Food Processing/Pharmaceuticals

- Wastewater



The Corrlok System provides lightweight, liquidtight, flexible raceway alternatives that are easy to work with and stand up to tough environments.

For details, visit www.electriflex.com and request the

TYPE LNM-P



This UL and CSA listed nonmetallic liquidtight conduit is ideally suited for continuous flexing situations. It is often specified in "Power Track" or cable carrier installations and on industrial robots. It does not contain a metal core which could fatigue from repeated flexing or vibration.

Construction:

Inner Core:

- Flexible PVC
- · Nylon reinforcing braid

Liquidtight Jacket:

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

Application:

Type LNM-P is intended for installation in accordance with Article 356 of the NEC (ANSI/NFPA-70) for flexible liquidtight nonmetallic conduit (LFNC-A or FNMC-A).

- For containment of 1000 volt and lower potential circuits.
- · Listed and marked for outdoor use
- Installations in hazardous (classified) locations:
 - Class I Div. 2 Article 501
 - Class II Div. 1&2 Article 502
 - Class III Div. 1&2 Article 503
- Electric signs and outdoor lighting over 1000 volts. Article 600.31(A)
- Wiring methods for pools and spas. Article 680

Conforms to the requirements of Section 14.5.5 of the electrical Standard for Industrial Machinery NFPA-79.

Fittings:

Fittings for layered conduit are for that conduit only and are so identified by the marking "FNMC-A" or "LFNC-A" for liquidtight flexible nonmetallic conduit Type A. 1/2" straight examples include:

- Thomas & Betts (Steel) #3721 (Plastic) #6302
- Appleton Electric # STNM-50
- Kellems / Hubell # H050CNK

Packaging:

Coiled in cartons or in random lengths (minimum 50 feet) on non-returnable Reels.

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Markets:

Machine Tools (
Mining
Gas Refine

Product Information

Certifications & Compliance

Listed File # E79308
Conforms to Underwriters Laboratories
Standard ANSI/UL 1660 type A.



Conforms to CSA 22.2 No. 227.2 Type A



WEEE and RoHS Compliant

ARRA Certification

Standard Colors

Safety Orange. Also available in Black and Gray.

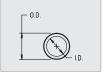
Working Temperatures

-55° to 105°C

LNM-P









				INTE DIAN	RNAL IETER	OU DIAN	TER IETER	INSIDE BEND RADIUS	WEIGHT				STANDAR	D LENGTH			
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	LNM-P 10	0.485	0.505	0.755	0.775	2.5	16	100	87001	250	87002	500	87003	1000	87004
1/2"	20	16	LNM-P 11	0.620	0.640	0.910	0.930	3.0	21	100	87101	200	87102	500	87103	1000	87104
3/4"	25	21	LNM-P 12	0.815	0.835	1.150	1.170	4.0	31	100	87201	175	87202	500	87204		
1"	32	27	LNM-P 13	1.030	1.055	1.415	1.440	6.0	42			100	87302	400	87304		
1 1/4"	40	35	LNM-P 14	1.370	1.395	1.800	1.825	7.0	61			100	87402	200	87404		
1 1/2"	50	41	LNM-P 15	1.585	1.620	2.045	2.080	8.0	79			50	87502	150	87503		
2"	63	53	LNM-P 16	2.045	2.080	0.605	2.640	9.0	120			50	87602	100	87603		







TYPE NM



A general purpose, UL and CSA listed, nonmetallic liquidtight conduit offering excellent protection to wiring from abrasion, sunlight, mild acids, alkaline and oils. Often used for air conditioning hook-ups and other outdoor applications.

Construction:

Type NM is a helically wound integral Type B construction. It contains a spiral of rigid PVC reinforcement imbedded within the PVC wall.

Application:

Type NM is intended for installation in accordance with Article 356 of the NEC (ANSI/ NFPA-70) for Flexible Liquidtight Nonmetallic Conduit (LFNC-B or FNMC-B).

- For containment of 1000 volt and lower potential circuits.
- · Listed and marked for outdoor use.
- Listed and marked for direct burial and in poured concrete
- Installations in hazardous (classified) locations:
 - Class I Div. 2 Article 501
 - · Class II Div. 1 & 2 Article 502
 - Class III Div. 1 & 2 Article 503
- Electric signs and outdoor lighting over 1000 volts. Article 600.32(A).
- Wiring methods for pools and spas. Article 680.

Conforms to the requirements of Section 14.5.5 of the electrical Standard for Industrial Machinery NFPA-79.

Fittings:

Suitable for use with nonmetallic fittings marked for FNMC-B or LFNC-B for liquidtight flexible nonmetallic conduit Type B or with standard metal liquidtight fittings. See NMLT connectors (p. 50) for further information.

Continuous lengths on reels available in 1/2" and 3/4" diameters only. Larger sizes available. Consult factory.



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Markets: Cell Towers

Cell Towers
Construction
Data Centers
Fixture/AC Whips
Healthcare
Power Plants
Rail/Transit
Renewable Energ
Security

Wastewate Treatment

Product Information

Certifications & Compliance

Listed File # E79308 Conforms to Underwriters Laboratories Standard ANSI/UL 1660 Type B.



Certified File #LL230485 Conforms to CSA 22.2 No. 227.2 Type B.



WEEE and RoHS Compliant

ARRA Certification

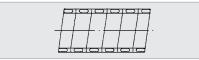
Standard Colors

Machine Tool Gray. Also available in black. Other colors available upon request.

Working Temperatures

-20°C to 80°C Dry / 60°C Wet / 70°C Oil For higher temperature version, see type NMHT (p. 47).

NM Type B















					RNAL 1ETER		TER IETER	INSIDE BEND RADIUS	WEIGHT		STANDAR	D LENGTH	
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part #	Reel (Ft.)	Part #
3/8"	16	12	NM-10	0.484	0.504	0.690	0.710	2.0	10	100	81001	1000	81004
1/2"	20	16	NM-11	0.622	0.642	0.820	0.840	3.25	11	100	81011	1000	81014
3/4"	25	21	NM-12	0.820	0.840	1.030	1.050	4.25	15	100	81022	500	81024
1"	32	27	NM-13	1.041	1.066	1.290	1.315	6.5	25	100	81032	400	81034
1 1/4"	40	35	NM-14	1.380	1.410	1.630	1.660	8.0	34	100	81042		
1 1/2"	50	41	NM-15	1.575	1.600	1.865	1.900	9.0	42	50	81052		
2"	63	53	NM-16	2.020	2.045	2.340	2.375	11.0	60	50	81062		

TYPE NMHT



This version of Type NM is designed to withstand high temperature environments. NMHT can be used to contain conductors having insulation materials with higher temperature ratings.

Construction:

 Type NM is a helically wound integral Type B construction. It contains a spiral of rigid PVC reinforcement imbedded within the PVC wall.

Application:

Type NMHT is intended for installation in accordance with Article 356 of the NEC (ANSI/NFPA-70) for Flexible Liquidtight Nonmetallic Conduit (LFNC-B or FNMC-B).

- For containment of 1000 volt and lower potential circuits.
- · Listed and marked for outdoor use.
- Listed and marked for direct burial and in poured concrete
- Installations in hazardous (classified) locations:
 - · Class I Div. 2 Article 501
 - · Class II Div. 1 & 2 Article 502
 - · Class III Div. 1 & 2 Article 503
- Electric signs and outdoor lighting over 1000 volts. Article 600.32(A).
- · Wiring methods for pools and spas. Article 680.
- Conforms to the requirements of section 14.5.5 of the Electrical Standard for Industrial Machinery NFPA-79.

Fittings:

Suitable for use with nonmetallic fittings marked for FNMC-B or LFNC-B for liquidtight flexible nonmetallic conduit Type B or with standard metal liquidtight fittings. See NMLT connectors (p. 50) for further information.

Continuous lengths on reels available in 1/2'' and 3/4'' diameters only. Larger sizes available. Consult factory.

F

Proudly made in the U.S.A.

Markets:

Cell Towers
Construction
Power Plants
Renewable Energy
Telecommunicatio
Utilities
Wastewater Treatn

Product Information

Certifications & Compliance

(h) Listed File # E79308
Conforms to Underwriters Laboratories
Standard ANSI/UL 1660 Type B.





ARRA Certification

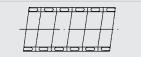
Standard Colors

Black. Other colors available upon request

Working Temperatures

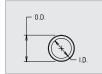
-20°C to 105°C Dry / 60°C Wet / 70°C Oil

NMHT Type B











					RNAL IETER	OU DIAN		INSIDE BEND RADIUS	WEIGHT	STANDAR	D LENGTH
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part #
3/8"	16	12	NMHT-10	0.484	0.504	0.690	0.710	2.0	10	100	82101
1/2"	20	16	NMHT-11	0.622	0.642	0.820	0.840	3.25	11	100	82111
3/4"	25	21	NMHT-12	0.820	0.840	1.030	1.050	4.25	15	100	82122
1"	32	27	NMHT-13	1.041	1.066	1.290	1.315	6.5	25	100	82132
1 1/4"	40	35	NMHT-14	1.380	1.410	1.630	1.660	8.0	34	100	82142
1 1/2"	50	41	NMHT-15	1.575	1.600	1.865	1.900	9.0	42	50	82152
2"	63	53	NMHT-16	2.020	2.045	2.340	2.375	11.0	60	50	82162







TYPE NMFG

Markets:

Food Processing Pharmaceuticals



A Food Grade nonmetallic liquidtight conduit that offers excellent protection to wiring from abrasion, sunlight, mild acids, alkaline and oils. It is intended for food and beverage machinery applications.

Construction:

- Type NMFG is a helically wound integral Type B construction. It contains a spiral of rigid PVC reinforcement imbedded within the PVC wall.
- The PVC used is an FDA approved compound.

Application:

Type NMFG is intended for installation in accordance with Article 356 of the NEC (ANSI/ NFPA-70) for Flexible Liquidtight Nonmetallic Conduit (LFNC-B or FNMC-B).

- This conduit can be used for "Splash Zone" food and beverage contact per FDA CFR21 and NSF 51/61 requirements. It is intended for a variety of wiring application on food processing equipment or clean rooms requiring motion, vibration and
- · Smooth exterior for easy wash down
- Resistant to Bleach (Sodium Hypochlorite)
- Will not promote bacteria growth

Suitable for use with nonmetallic fittings marked for FNMC-B or LFNC-B for liquidtight flexible nonmetallic conduit Type B or with standard metal liquidtight fittings. See NMLT connectors (p. 50) for further information.



Proudly made in the U.S.A.

Product Information

Certifications & Compliance

Listed File # E79308 Conforms to Underwriters Laboratories Standard ANSI/UL 1660 Type B.



Certified File #LL230485 Conforms to CSA 22.2 No. 227.2 Type B.



WEEE and RoHS Compliant

ARRA Certification



NSF NSF Certified Component

Standard Colors

White

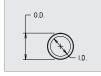
Working Temperatures

-20°C to 80°C Dry / 60°C Wet / 70°C Oil











Part #

81701

81711

81712

81713

81714

81715

81716







TYPE NM2

Markets:

- Machine Tools (OEM) Renewable Energy Robotics



Type NM2 is an extra-flexible liquidtight nonmetallic tubing. This lightweight tubing cuts easily and installs quickly. It is ideal for wiring protection in tight quarters and for tight bends. The thin, flexible PVC skin allows for greater movement than Listed nonmetallic conduits.

Construction:

• Type NM is a helically wound integral construction. It contains a spiral of rigid PVC reinforcement imbedded within the PVC wall.

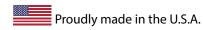
Application:

- Used as a UL Recognized component in OEM equipment
- Robotic wiring harnesses
- Laboratory Equipment
- Fiber Optics

Fittings:

Intended for use with nonmetallic liquidtight fittings marked FNMC-B. See Type NMLT Connectors (p. 50) for further information.





Product Information

Certifications & Compliance

Conforms to CSA 22.2 No. 227.3 File#

. UL Recognized File # E129972 UL1696

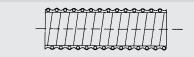


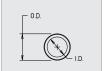
ARRA Certification

Standard Colors

Working Temperatures

-20°C to 70°C







				INTEI DIAN	RNAL IETER	OU DIAN		INSIDE BEND RADIUS	WEIGHT	STANDAR	D LENGTH
US Trade Size	ISO (MM)	CSA (MM)	Туре	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft.	Carton (Ft.)	Part #
1/4"	10	8	NM2-140	0.385	0.405	0.560	0.575	0.6	5	100	82000
3/8"	16	12	NM2-10	0.484	0.504	0.690	0.710	0.7	6	100	82001
1/2"	20	16	NM2-11	0.622	0.642	0.820	0.840	0.9	8	100	82011
3/4"	25	21	NM2-12	0.820	0.840	1.030	1.050	1.1	10	100	82022
1"	32	27	NM2-13	1.041	1.066	1.290	1.315	1.3	15	100	82032
1 1/4"	40	35	NM2-14	1.380	1.410	1.630	1.660	1.7	20	100	82042
1 1/2"	50	41	NM2-15	1.575	1.600	1.865	1.900	1.9	26	50	82052
2"	63	53	NM2-16	2.020	2.045	2.340	2.375	2.4	36	50	82062







TYPE NMLT & NMSC

Markets: Cell Towers Construction Data Centers Fixture/AC Whips Healthcare Power Plants Rail/Transit Renewable Energy Security

Wastewate Treatment



Type NMLT and NMSC nonmetallic connectors are intended to be used with liquidtight nonmetallic conduit Type B. (NM, NMHT, NMFG and NM2.) They are not to be used with Type A (LNM-P) conduit or steel conduit.

Construction:

- UL and cUL Listed
- "O" Ring and steel locknut included
- Angled connectors provide smooth "sweep" radius
- Standard NPT Threads
- Suitable for indoor/outdoor use
- NMLT made from Nylon 6. Flame rating 94V-2. 125° C
- NMLT-30 Series available in 45° angle configuration
- NMSC screw-on, one piece connectors made from UV rated PVC
- NEMA 4X

Product Information

Certifications & Compliance

Listed File # E197675

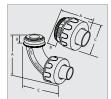


CUL Listed # E197675

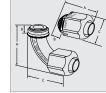
Standard Colors

Gray. For Black, add suffix B to catalog number.

NMLT















					NMLT			
Config	US Trade Size	ISO (MM)	CSA (MM)	Туре	KO Size (IN)	A-Dimensions (IN)	B-Dimensions (IN)	C-Dimensions (IN)
Straight	3/8"	16	12	NMLT-10	1/2	2.000	0.540	1.400
Straight	1/2"	20	16	NMLT-11	1/2	2.000	0.540	1.400
Straight	3/4"	25	21	NMLT-12	3/4	2.200	0.635	1.700
Straight	1"	32	27	NMLT-13	1	2.280	0.740	2.000
Straight	1 1/4"	40	35	NMLT-14	1 1/4	2.440	0.760	2.400
Straight	1 1/2"	50	41	NMLT-15	1 1/2	2.700	0.800	2.670
Straight	2"	63	53	NMLT-16	2	2.990	0.850	3.280
90°	3/8"	16	12	NMLT-20	1/2	2.120	0.500	3.120
90°	1/2"	20	16	NMLT-21	1/2	2.120	0.500	3.120
90°	3/4"	25	21	NMLT-22	3/4	2.500	0.520	3.600
90°	1"	32	27	NMLT-23	1	3.125	0.700	4.125
90°	1 1/4"	40	35	NMLT-24	1 1/4	4.450	0.760	5.200
90°	1 1/2"	50	41	NMLT-25	1 1/2	4.750	0.800	5.200
90°	2"	63	53	NMLT-26	2	5.420	0.860	5.800
					NMSC			
Config	US Trade Size	ISO (MM)	CSA (MM)	Туре	KO Size (IN)	A-Dimensions (IN)	B-Dimensions (IN)	C-Dimensions (IN)
Straight	1/2"	50	41	NMSC-11	1/2	1.750	0.500	1.250
Straight	3/4"	63	53	NMSC-12	3/4	1.800	0.625	1.500
90°	1/2"	16	12	NMSC-21	1/2	1.875	0.500	3.125
90°	3/4'	20	16	NMSC-22	3/4	2.375	0.625	3.500

NONMETALLIC A/C WHIPS



Commonly used in air conditioner, pool and sauna installations. Consists of UL listed flexible nonmetallic conduit, one nonmetallic straight connector and one nonmetallic 90° connector.

Construction:

- Nonmetallic conduit Type NM is a helically wound integral Type B construction. It contains a spiral of rigid PVC reinforcement imbedded within the PVC wall.
- · Corrosion, Oil and Sunlight Resistant

Application:

Available in:

- 8 and 10 AWG Conductors
- Conduit sizes 1/2" and 3/4"
- 4 and 6 foot lengths

Packaged in standard cartons. For quantities of 500 or more, please consult factory.

Type NM is intended for installation in accordance with Article 356 of the NEC (ANSI/ NFPA-70) for Flexible Liquidtight Nonmetallic Conduit (LFNC-B or FNMC-B).

- For containment of 1000 volt and lower potential circuits.
- Listed and marked for outdoor use.
- Wiring methods for pools and spas. Article 680.



Product Information

Certifications & Compliance Listed File # E105410

Standard Colors

Machine Tool Gray.

Working Temperatures

-20°C to 80°C Dry / 60°C Wet / 70°C Oil

NM Type B





DESCRIPTION	PART NUMBER	NUMBER, SIZE AND WIRE COLOR OF CONDUCTORS	STD. PACK QUANTITY
NM 11 1/2" x 48"	NMW1148311	3 # 10s BLK-RED-GRN	24
NM 11 1/2" x 72"	NMW1172311	3 # 10's BLK-RED-GRN	24
NM 12 3/4" x 48"	NMW1248381	2#8 BLK-RED; 1 #10 GRN	24
NM 12 3/4" x 72"	NMW1272381	2 # 8 BLK-RED; 1 #10 GRN	12





ENGINEERING INFORMATION



ELECTRI-FLEX VISE

The Electri-Flex cutting vise is recommended for accurate, straight cuts in the field. This lightweight cast iron vise can either be bench-mounted or carried in the tool box. The clamping mechanism securely holds the flexible conduit while the slots guide a hacksaw to ensure a clean, square cut. Suitable for conduit trade sizes 3/8" to 1-1/2". Works well on other tubing and materials too. Order P/N: 90030, weight 2.4 lbs.

CUTTING FLEXIBLE CONDUITS

Proper cutting methods for flexible conduits are important to ensure a sealed connection when assembled with intended fittings. Furthermore, in case of flexible conduits containing steel, a clean, square cut is necessary for establishing a good connection for continuity of the ground.

HAND CUTTING IN FIELD

When using a handheld hacksaw, care should be taken to make a square. clean cut. This can be easily achieved through the use of the cutting vise shown on this page. For best results, a blade having 24 to 32 teeth per inch with no-set is recommended. For larger sizes, apply reinforced tape around the circumference of the conduit and cut directly through the middle of the tape. This will reduce the possibility of flaring the ends while cutting.

REPETITIVE PRODUCTION CUTTING

It has been our experience that in order to achieve the best results; a band saw having a blade with 24 to 32 teeth per inch at a speed of 300 to 350 feet per minute should be used. A no-set blade will produce the cleanest cut. Conduit should be held and supported in a safe manner. Abrasive cut-off wheels and chop saws are not recommended.

Conduit Wire Fill Charts

Per National Electrical Code—Chapter 9, Table 4

		соие—спарте	. 5,							
	Internal Diameter (In.)	Total Area 100% (sq. In.)	2 Wires 31% (sq. In.)	Over 2 Wires 40% (sq. In.)	1 Wire 53% (sq. In.)	Internal Diameter (In.)	Total Area 100% (sq. In.)	2 Wires 31% (sq. ln.)	Over 2 Wires 40% (sq. In.)	1 Wire 53% (sq. In.)
Trade Size		Flexible N	Metal Conduit-	—BR, ABR			xible Metal Cond CSA, VJC, LAFG,			
3/8	0.384	0.116	0.036	0.046	0.061	0.494	0.192	0.060	0.077	0.102
1/2	0.635	0.317	0.098	0.127	0.168	0.632	0.314	0.097	0.126	0.166
3/4	0.824	0.533	0.165	0.213	0.282	0.830	0.541	0.168	0.216	0.287
1	1.020	0.817	0.253	0.327	0.433	1.054	0.872	0.270	0.349	0.462
1-1/4	1.275	1.277	0.396	0.511	0.677	1.395	1.528	0.474	0.611	0.810
1-1/2	1.538	1.857	0.576	0.743	0.984	1.588	1.979	0.613	0.792	1.049
2	2.040	3.269	1.013	1.308	1.733	2.033	3.245	1.006	1.298	1.720
2-1/2	2.500	4.909	1.522	1.964	2.602	2.493	4.879	1.512	1.952	2.586
3	3.000	7.069	2.191	2.828	3.747	3.085	7.475	2.317	2.990	3.962
3-1/2	3.500	9.621	2.983	3.848	5.099	3.520	9.731	3.017	3.892	5.157
4	4.000	12.566	3.895	5.026	6.660	4.020	12.692	3.935	5.077	6.727
	F	lexible Nonme	tallic Conduit	Type A — LNM-	P	Liquidtight	Nonmetallic Co	onduit Type B—	NM, NMHT, I	NMFG, NM2
3/8	0.495	0.192	0.060	0.077	0.102	0.494	0.192	0.060	0.077	0.102
1/2	0.630	0.312	0.097	0.125	0.165	0.632	0.314	0.097	0.126	0.166
3/4	0.825	0.535	0.166	0.214	0.284	0.830	0.541	0.168	0.216	0.287
1	1.043	0.854	0.265	0.342	0.453	1.054	0.872	0.270	0.349	0.462
1-1/4	1.383	1.501	0.465	0.600	0.796	1.395	1.528	0.474	0.611	0.810
1-1/2	1.603	2.017	0.625	0.807	1.069	1.588	1.979	0.613	0.792	1.049
2	2.063	3.341	1.036	1.336	1.771	2.033	3.245	1.006	1.298	1.720

	NPT Threaded Fittings	NPT Threaded Fittings — Knock Out Diameter
3/8	1/2	7/8
1/2	1/2	7/8
3/4	3/4	1-3/32
1	1	1-23/64
1-1/4	1-1/4	1-23/32
1-1/2	1-1/2	2
2	2	2-1/2

STANDARD DIMENSIONS

TYPE LA • TYPE LT • TYPE EF • TYPE ATLA • TYPE AT • TYPE ATX • TYPE ALT • TYPE ZHLA • TYPE CEA • TYPE ACEA • TYPE LOR • TYPE CSA • TYPE VJC • TYPE LAFG • TYPE LTFG • TYPE LSFG • TYPE LTSS • TYPE LTSS • TYPE ATXSS • TYPE ATXSS • TYPE ATXSS • TYPE CBLA • TYPE SLA • TYPE EMS • TYPE EMCS • TYPE NM • TYPE NMHT • TYPE NM2 • TYPE NMFG

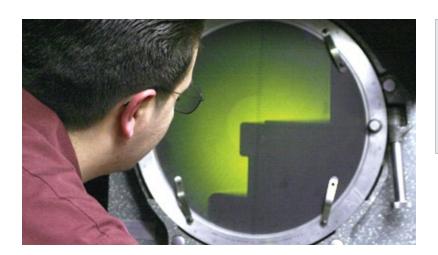
STANDARD DIMENSIONS FOR LIQUIDTIGHT FLEXIBLE CONDUIT

		Diame	ter (in.)	Diamet	neter (mm)	
Trade Size (In.)	Туре	Inside Min/Max	Outside Min/Max	Inside Min/Max	Outside Min/Max	
1/4	140	0.245/0.265	0.450/0.470	6.2/6.7	11.4/11.9	
5/16	516	0.385/0.405	0.570/0.590	9.8/10.3	14.5/15.0	
3/8	10	0.484/0.504	0.690/0.710	12.3/12.8	17.5/18.0	
1/2	11	0.622/0.642	0.820/0.840	15.8/16.3	20.8/21.3	
3/4	12	0.820/0.840	1.030/1.050	20.8/21.3	26.2/26.7	
1	13	1.041/1.066	1.290/1.315	26.4/27.1	32.8/33.4	
1-1/4	14	1.380/1.410	1.630/1.660	35.1/35.8	41.4/42.2	
1-1/2	15	1.575/1.600	1.865/1.900	40.0/40.6	47.4/48.3	
2	16	2.020/2.045	2.340/2.375	51.3/51.9	59.4/60.3	
2-1/2	17	2.480/2.505	2.840/2.875	63.0/63.6	72.1/73.0	
3	18	3.070/3.100	3.460/3.500	78.0/78.7	87.9/88.8	
3-1/2	350	3.500/3.540	3.960/4.000	88.9/89.9	100.6/101.6	
4	19	4.000/4.040	4.460/4.500	101.6/102.6	113.3/114.3	
5	500	4.975/5.035	5.505/5.565	126.4/127.9	139.8/141.4	
6	600	6.015/6.075	6.565/6.625	152.8/154.3	166.8/168.3	

This reference chart is applicable to the standard conduit types listed above. Please refer to individual product pages of this catalog for size ranges and dimensions for products not listed here.

COMMON CONVERSIONS

Length	Weight	Temperature
1 Foot = 0.305 Meters	1 Pound = 454 Grams	°C = Degrees Centigrade
1 Meter = 3.281 Feet	1 Pound = 0.454 Kilograms	°F = Degrees Fahrenheit
1 Inch = 25.4 Millimeters	1 Kilogram = 2.205 Pounds	°C = (°F — 32) ÷ 1.8
1 Millimeter = 0.039 Inches	1 Gram = 0.035 Ounces	°F = (°C x 1.8) + 32
1 Inch = 2.54 Centimeters	1 Ounce = 28.349 Grams	-
1 Centimeter = 0.394 Inches	-	-



NEMA Guidelines Publication

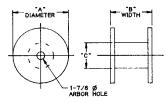
NEMA (National Electrical Manufacturers Association) has developed and published an APPLICATION AND INSTALLATION GUIDELINES FOR FLEXIBLE AND LIQUIDTIGHT FLEXIBLE METAL AND NONMETALLIC CONDUITS. This publication, NEMA RV 3-2014, is available at this link: www.nema.org/stds/rv3.cfm#download

REEL DIMENSIONS

		58"		42"				30"			3	2" Specia	al		24"	
		LT	LT													LT
Trade		LA	LA	BR					BR					BR		LA
Size (in.)	Туре	EF	Ef	ABR	LNM-P	LT	LA	EF	ABR	LNM-P	LT	LA	EF	ABR	LNM-P	EF
3/8	10	6000	-	-	-	1000	1000	1000	2000	1000	-	-	-	1000	500	500
1/2	11	4500	-	-	1000	1000	1000	1000	1000	500	-	-	-	-	-	500
3/4	12	2500	1000	-	-	500	500	500	500	500	-	-	-	-	-	-
1	13	1500	-	-	-	400	-	400	400	400	-	400	-	-	-	-
1-1/4	14	1000	-	400	-	200	-	200		200	-	200	-	-	-	-
1-1/2	15	750	-	300	-	-	-	-	-	-	150	150	150	-	-	-
2	16	500	-	150	-	-	-	-	-	-	100	100	100	-	-	-
2-1/2	17	275	-		-	-	-	-	-	-	-	-	-	-	-	-
3	18	175	-		-	-	-	-	-	-	-	-	-	-	-	-
3-1/2	350	175	-		-	-	-	-	-	-	-	-	-	-	-	-
4	19	100	-		-	-	-	-	-	-	-	-	-	-	-	-
5	500	-	-		-	-	-	-	-	-	-	-	-	-	-	-
6	600	-	-		-	-	-	-	-	-	-	-	-	-	-	-

Approximate Reel Dimensions

"A"		II II	В"	"(C"	We	Qty./Skid	
(in)	(cm)	(in)	(cm)	(in)	(cm)	(lbs)	(kg)	Qty./3kiu
24	60.96	19.5	49.53	12	30.48	17	7.7	4
30	76.2	19.5	49.53	12	30.48	21	9.5	4
32 (Special)	81.28	19.5	49.53	14	35.56	23	10.4	4
42	106.68	20	50.8	24	60.96	70	31.8	1
58 (Jumbo)	147.32	36	91.44	28	71.12	208	94.3	1



Lazy Louis Liquatite Reel Payout Stand

Safe and easy handling of conduit for contractor and high-rise work.

This rugged yet simple payout reel is worth its weight in gold. It easily handles reels (32" diameter and smaller) hassle-free, and can take loaded reels of 400 lbs. capacity.

The tough steel construction of the base, roller bearings and top plate make dispensing conduit fast and efficient, while the tubular shaft makes set up and handling a breeze. There's never a need of a hoist or a forklift to push the reels around. With the Lazy Louie you set up where you want to work and that's

Weight 11 lbs. P/N 90040



Dimensions

Size: L x W x H Trade ISO CSA Length Per										
Carton	5		lil	Trade	ISO C'	CSA C'	Length Per			
Туре		in. (cm.)		Size	Size	Size	Carton			
	L	W	H	in.	mm.	mm.	ft. (m.)			
		Liqua	itite Types I			0	250 (75)			
D4	14-3/8	7-3/4	15	1/4	10	8	250 (75)			
R1	(36.53)	(19.685)	(38.1)	5/16	12	10	250 (75)			
	46.2/4	0	47.5/0	3/8	16	12	100 (30)			
R2	16-3/4 (42.55)	8 (20.32)	17-5/8 (44.77)	1/2	20	16	100 (30)			
R3	20-3/8 (51.77)	8 (20.32)	20-3/4 (52.7)	3/4	25	21	100 (30)			
R4	24-1/2	8-1/4	25-1/4	1	32	27	100 (30)			
N4	(62.23)	(20.96)	(64.135)	1-1/4	40	35	50 (15)			
	27	40.2/0	22 5 /0	1-1/2	50	41	50 (15)			
R6	37 (93.98)	10-3/8 (26.37)	33-5/8 (85.41)	2	63	53	50 (15)			
	(55.55)	(20107)	(00111)	2-1/2	70	63	25 (8)			
#3	52 (132.08)	8-1/2 (21.59)	52 (132.08)	3	80	78	25 (8)			
3 & 4	60-1/4	6-1/2	60-1/4	3-1/2	90	91	25 (8)			
3 & 4	(153.04)	(16.5)	(153.04)	4	100	103	25 (8)			
5 & 6	66	12-1/2	66	5	125	-	25 (8)			
3 & 0	(167.64)	(31.75)	(167.64)	6	150	-	25 (8)			
		No	nmetallic T	ype LNM-	-P					
				3/8	16	12	250 (75)			
				1/2	20	16	200 (60)			
Small	34-3/4	7	34-3/4	3/4	25	21	175 (50)			
LNM-P	(88.27)	(17.78)	(88.27)	1	32	27	100 (30)			
				1-1/4	40	35	100 (30)			
				1-1/2	50	41	100 (30)			
Large LNM-P	43 (109.22)	7-3/4 (19.7)	43 (109.22)	2	63	53	50 (15)			
		Nonm	etallic Type	NM and	NM2					
-	6 (15.24)	20 (50.8)	20 (50.8)	3/8	16	12	100 (30)			
-	6 (15.24)	20 (50.8)	20 (50.8)	1/2	20	16	100 (30)			
-	7 (17.78)	22 (55.88)	22 (55.88)	3/4	25	21	100 (30)			
-	8 (20.32)	24 (60.96)	24 (60.96)	1	32	27	100 (30)			
-	9 (22.86)	26 (66.04)	26 (66.04)	1-1/4	40	35	100 (30)			
-	7 (17.78)	30 (76.2)	30 (76.2)	1-1/2	50	41	50 (15)			
-	7 (17.78)	30 (76.2)	30 (76.2)	2	63	53	50 (15)			

Skids

	Standard Skid Quantities: 48" x 40" x 5"										
Trade Size (in.)	Catalog	Flex	Liquatite	Nonmetallic							
Trade Size (III.)	Number	ABR, BR	EF, LA, LT	LNM-P	NM						
3/8	10	60 coils	45 cartons	100	250						
1/2	11	25 coils	45 cartons	100	200						
3/4	12	25 coils	24 cartons	100	175						
1	13	28 coils	20 cartons	100	100						
1-1/4	14	28 coils	20 cartons	50	100						
1-1/2	15	28 coils	5 cartons	50	50						
2	16	28 coils	5 cartons	50	50						
2-1/2	17	5 coils	5 cartons	25	-						
3	18	5 coils	5 cartons	25	-						
3-1/2	350	5 coils	5 cartons	25	-						
4	19	4 coils	5 cartons	25	-						

Cartons

Trade Size (in.)	Catalog	Standard C	arton Type							
Trade Size (III.)	Number	All	LNM-P							
3/8	10	100	250							
1/2	11	100	200							
3/4	12	100	175							
1	13	100	100							
1-1/4	14	50	100							
1-1/2	15	50	50							
2	16	50	50							
2-1/2	17	25	-							
3	18	25	-							
3-1/2	350	25	-							
4	19	25	-							
5	500	25	-							
6	600	25	÷							

Packaging, Disclaimer and Warranty

DISCLAIMER

All specifications contained herein are subject to change without notice. Please refer to www.electriflex.com for the most current product information.

Carton and reel lengths are approximate due to variations during the extrusion process.

PRODUCT WARRANTY

The Electri-Flex Company manufactures its products to the specifications and standards as described in the most current Electri-Flex catalog and it warrants them to be free from defects in materials and workmanship.

Electri-Flex will, in the case of product claim, be liable for only the price of the goods purchased. Remedies with respect to products sold by Electri-Flex will be limited only to the right of replacement, or to repayment of user's price of its product.





Family owned and operated since its inception and incorporation in 1955, Electri-Flex remains focused on the quality, service and partnership values that have resulted in its leadership position in the electrical industry. The company's innovations have included its premier Liquatite® line and other manufacturing patents, as well as numerous packaging improvements.

If you are seeking cost-effective, high-quality flexible conduit for any application, give us a call. Whatever your design challenge, we can provide a solution.





electri-flex company

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