Leadership in flexible

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

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

— H. W. “West” Kinander, Jr.
The Liquatite Line
The Liquatite line includes nearly 40 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.

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 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.

Members of:
- NAED
- NEMRA
- NEMA

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
- Distributor Policy brochure
- 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 55 years.
<table>
<thead>
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<th>Conduit Type</th>
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<th>Flexibility</th>
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# Conduit Application Guide

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## General Chemical Resistance

- **Oils Acids**

## Conduit Type Page

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## Conduit Type

### Jacketed Metallic

- **TYPE LA**
- **TYPE LT**
- **TYPE LTFG**
- **TYPE EF**
- **TYPE LOR**
- **TYPE CBLA**
- **TYPE CSA**
- **TYPE ATLA**
- **TYPE AT**
- **TYPE ATX**
- **TYPE VJC**
- **TYPE ALT**
- **TYPE ZHLA**
- **TYPE CEA**
- **TYPE ACEA**
- **TYPE SLA™**
- **TYPE EMS™**
- **TYPE EMCS™**

### Unjacketed Metallic

- **TYPE BR**
- **TYPE ABR**
- **TYPE ABRH**
- **TYPE FSC**
- **TYPE USL**
- **TYPE UG**
- **TYPE SL**
- **TYPE PF**

### Nonmetallic

- **CORRLOK**
- **TYPE LNM-P**
- **TYPE NM**
- **TYPE NMHT**
- **TYPE NM2**
Jacketed Metallic

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

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

### Distinctive Characteristics Include:

- UL listed, CSA certified
- 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 19 for details.
A flexible steel conduit that 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:
The flexible inner core is made from a spiral wound strip of heavy-gauge, corrosion-resistant, hot-dipped galvanized steel. The 3/8 through 1-1/4 inch trade sizes are squarelock formed and include an integral bonding strip of copper that is enclosed within the convolutions throughout their entire length. The 1-1/2 through 4-inch trade sizes are designed with a fully interlocked strip.

The liquidtight jacketing material is of a high-quality, rugged, flame-retardant flexible PVC compound that resists oils, mild acids and exposure to sunlight. Refer to the Chemical Resistance Guide on our website for further information.

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 600 volt and lower potential circuits.
- Sunlight-resistant.
- Suitable as a grounding conductor when used for circuits rated up to 20A for the 3/8 and 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).
- Installations in hazardous (classified) locations:
  - Class I Div. 2 Article 501
  - Class II Div. 1 and 2 Article 502
  - Class III Div. 1 and 2 Article 503
- Installed under raised floors in data processing areas. Articles 645.5(E)(2).
- Electric signs and outline lighting over 1,000 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 600V. Article 430.223.
- Underground service, feeder, branch circuit and recreational vehicle site feeder circuit conductors. Article 551.80.
- Pools and fountains. Article 680.
- Bodies of water. Article 682.
- Fire pumps. Article 695.

See page 37 for Dimensions.
CONSTRUCTION:
The flexible inner core is made from a spiral wound strip of corrosion-resistant plated steel. The 1/4 through 2 inch trade sizes are squarelocked formed and, with the exception of the 1/4 inch size, contain a nylon cord packing within the convolutions.
The larger sizes are constructed with a fully interlocked strip for added strength and to prevent unraveling.
A flexible yet durable PVC jacket is extruded over this core, creating a liquidtight conduit resistant to most oils, acids and vapors present in industrial environments. Refer to the Chemical Resistance Guide on our website.

APPLICATION:
This conduit is used extensively in the machine tool and other industrial environments where flexibility is necessary for installation and maintenance, or where vibration and movement must be absorbed. The inherent sunlight resistance of PVC enables this product to be used in outdoor applications. Compatible with standard liquidtight connectors. RoHS and WEEE Compliant.

JIC:
Manufactured in accordance with the dimensions and specifications as outlined by the Joint Industrial Council Standard for Mass Production Equipment and Machine Tools.

STANDARD COLORS:
Machine tool Gray and Black. Other colors available upon request.

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<tr>
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<td>100</td>
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</tr>
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<td>13102/13802</td>
</tr>
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<td>1-1/4</td>
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<td>1-1/2</td>
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<td>50</td>
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</tr>
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</tr>
</tbody>
</table>

See page 37 for Dimensions. Please note that sizes 2-1/2” through 4” are identical to the LA series detailed on page 7.
A general-purpose, non-UL flexible liquidtight steel conduit designed for a variety of installations requiring motion, vibration and bending on food processing equipment.

CONSTRUCTION:
The flexible inner core is made from continuously spiral-wound, corrosion-resistant plated steel and contains a nylon cord packing.
The outer flexible PVC jacket is made from an FDA-approved compound formulated for “Splash Zone” food and beverage contact per FDA CFR21 and NSF 51/61 requirements.

APPLICATION:
Type LTFG is a Certified Component for NSF/ANSI 169 special purpose food equipment or devices.
- Provides a liquidtight flexible protective wiring raceway
- Smooth exterior for easy washdown
- Will not promote bacteria growth
- Available in 3/8” through 2”, consult factory for larger sizes.
- Intended for use with Standard Liquidtight Connectors
- FDA-approved compound

APPLICATIONS INCLUDE: Special purpose food equipment or devices, such as food processing, packaging, cooking, canning and bottling equipment; pharmaceutical manufacturers; meat and poultry packing facilities; and restaurants.

INDUSTRIES SERVED:
- Food Product Machinery Manufacturing (SIC 3556).
- Meat Packing Plants (SIC 211).
- Pharmaceutical Preparation
- Manufacturing (SIC 2834).

STANDARD COLORS:
White. Other colors available upon request.

RoHS and WEEE Compliant.

WORKING TEMPERATURES:
-20°C to 60°C

METAL USED: Steel

PLASTIC USED: PVC

See the Chemical Resistance Guide on our website.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Internal Diameter (In.)</th>
<th>Outer Diameter (In.)</th>
<th>Inside Bend Radius (In.)</th>
<th>Weight (Lbs.)/100 Ft.</th>
<th>Coil Length (Ft.)</th>
<th>Coil Part #</th>
<th>Reel Length (Ft.)</th>
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</thead>
<tbody>
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<td>LTFG-10</td>
<td>0.484</td>
<td>0.504</td>
<td>0.690</td>
<td>0.710</td>
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<td>20</td>
<td>100</td>
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<td>1/2</td>
<td>LTFG-11</td>
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<td>0.642</td>
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<td>24</td>
<td>100</td>
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<td>LTFG-12</td>
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<td>LTFG-13</td>
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<td>1.066</td>
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<td>100</td>
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<td>1-1/4</td>
<td>LTFG-14</td>
<td>1.380</td>
<td>1.410</td>
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<td>1.660</td>
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<td>1-1/2</td>
<td>LTFG-15</td>
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<td>1.600</td>
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<td>1.900</td>
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<td>2</td>
<td>LTFG-16</td>
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<td>2.045</td>
<td>2.340</td>
<td>2.375</td>
<td>5.5</td>
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<td>50</td>
</tr>
</tbody>
</table>

See page 37 for Dimensions. Please note that sizes 2-1/2” through 4” are identical to the LA series detailed on page 7.

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TYPE EF

This non-UL flexible liquidtight conduit is a competitive-grade version of our Type LT. It conforms to JIC standards for dimensions and general construction.

CONSTRUCTION:
The flexible inner core is constructed from a helically formed strip of corrosion-resistant steel. A liquidtight PVC jacket is then extruded over the core.

APPLICATION:
Type EF is used for general installations requiring some movement and protection for contained conductors. Forms a liquidtight system when installed with standard connectors for use indoors or out.

STANDARD COLORS:
Machine Tool Gray

WORKING TEMPERATURES:
-20°C to 80°C

METAL USED:
Steel

PLASTIC USED:
PVC

See the Chemical Resistance Guide on our website.

TYPE LOR

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

APPLICATION:
Type LOR is ideally used in situations where a UL listing or CSA certification is not a factor but where a flexible conduit must withstand exposure to many harsh chemicals, oils, UV, etc. Compatible with standard liquidtight connectors.

RoHS and WEEE Compliant.

STANDARD COLORS:
Machine Tool Gray. Other colors available upon request. Part numbers below designate gray jacket.

WORKING TEMPERATURES:
-20°C to 60°C intermitting to 90°C.

METAL USED:
Steel

PLASTIC USED:
PVC

See the Chemical Resistance Guide on our website.

NOTE: For a UL listed version consult factory for Type LA/LOR.
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:
CBLA has a flexible inner core made from a spiral wound strip of heavy-gauge, hot-dipped galvanized steel. The 3/8 through 1-1/4 inch trade sizes contain an integral bonding strip of copper. The 1-1/2 inch and larger sizes are designed with a fully interlocked strip.

The jacketing material is a rugged flame-retardant flexible blue PVC. For installations that do not allow the use of PVC, see Type ZHLA on page 17.

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.
- Installed under raised floors in data processing areas. Article 645.5(E)(2).
- Listed and marked for direct burial and in poured concrete.
- Meets the same specifications as Type LA on page 7.


RoHS and WEEE Compliant.

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

WORKING TEMPERATURES:
-20°C to 60°C

METAL USED: Steel

PLASTIC USED: PVC

See the Chemical Resistance Guide on our website.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs.) / 100 Ft.</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length</td>
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<td>CBLA-11</td>
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<td>CBLA-19</td>
<td>12.0</td>
<td>350</td>
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</tr>
</tbody>
</table>

See page 37 for Dimensions.
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, and it offers a wider operating temperature range.

CONSTRUCTION:
The flexible inner core is made from a spiral wound strip of heavy-gauge, corrosion-resistant, hot-dipped galvanized steel. The 3/8 through 1-1/4 inch trade sizes are cord-packed.

The durable PVC flame-retardant jacket is designed for good flexibility and impact resistant characteristics at low temperatures.

APPLICATION:
This conduit is intended for use according to the Canadian Electrical Code as described in clause 12-1300 for dry, damp or wet locations and in hazardous areas where flexibility is necessary per 18-202(4)(b) and 18-302(4) for both Class II and Class III locations.

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

STANDARD COLORS: Black

WORKING TEMPERATURES:
-40°C to 75°C

METAL USED: Steel

PLASTIC USED: PVC

See the Chemical Resistance Guide on our website.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs.)/100 Ft.</th>
<th>Carton Footage</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
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<tbody>
<tr>
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<td>Part #</td>
<td>Length</td>
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<td>368</td>
<td>25</td>
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</tr>
</tbody>
</table>

See page 37 for Dimensions.

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**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:**
ATLA has a flexible inner core made from a spiral wound strip of heavy gauge, hot-dipped galvanized steel. The 3/8 through 1-1/4 inch trade sizes contain an integral bonding strip of copper. The 1-1/2 inch and larger are designed with a fully interlocked strip.

The jacketing material is a rugged flame retardant flexible PVC resistant to weathering, UV, oils and many chemicals. See the Chemical Resistance Guide on our website for further details.

**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:

- For containment of 600 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 and 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).
- 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
- 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 600V. Article 430.223.
- Underground service, feeder, branch circuit and recreational vehicle site feeder circuit conductors. Article 551.80.
- Pools and fountains. Article 680.
- Bodies of water. Article 682.
- Fire pumps. Article 695.
- Meets the same specifications as Type LA on page 7.

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

RoHS and WEEE Compliant.

**STANDARD COLORS:**
Machine Tool Gray

**METAL USED:** Steel
**PLASTIC USED:** PVC

See the Chemical Resistance Guide on our website.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs.)/100 Ft.</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
</tr>
</thead>
<tbody>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Part #</td>
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<td>25</td>
<td>80292</td>
</tr>
</tbody>
</table>

See page 37 for Dimensions.

RoHS and WEEE Compliant.
TYPE AT

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

CONSTRUCTION:
The flexible inner steel core is identical to that found in Type LT. The specially formulated PVC jacket remains flexible at very low temperatures, unlike most plasticized PVC. It also displays slower aging characteristics at elevated temperatures.

APPLICATION:
Type AT is well suited for exposure to extreme climatic conditions. It is also widely used on industrial process equipment such as annealing ovens, lumber kilns, foundries, refrigeration, etc. Uses standard liquidtight connectors. RoHS and WEEE Compliant.

STANDARD COLORS: Machine Tool Gray

WORKING TEMPERATURES: -55°C to 105°C intermitting to 120°C

METAL USED: Steel  PLASTIC USED: PVC

See the Chemical Resistance Guide on our website.

Note: For a UL listed and CSA certified version, see Type ATLA.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs.)/100 Ft.</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<td>Part #</td>
</tr>
<tr>
<td>AT</td>
<td></td>
<td></td>
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<td>AT-600</td>
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<td>572</td>
<td>25</td>
<td>36602</td>
</tr>
</tbody>
</table>

ATX

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

CONSTRUCTION:
Utilizes the flexibility of our standard LT core, coupled with the advantage of a thermoplastic rubber jacket that is virtually unaffected by temperature extremes and that contains no halogens. The material has a flammability rating of UL 94-HB and is UV stabilized.

APPLICATION:
Used in situations where concerns of resistance to temperature exposure exist. These include heavy outdoor equipment, boilers and furnaces, and sub-zero areas. RoHS and WEEE Compliant.

STANDARD COLORS: Black

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.

METAL USED: Steel  PLASTIC USED: TPR

See the Type ATX — Chemical Resistance Guide on our website.

See page 37 for Dimensions.
## TYPE VJC

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

**CONSTRUCTION:** A unique vacuum extrusion process allows this product to have a thin PVC jacket that does not restrict the great flexibility characteristics of the inner core. The core material is the same as Type SL (see page 29). VJC is designed with dimensions that will accept standard liquidtight connectors.

**APPLICATION:** VJC is suitable for use in both static applications where a tight bend diameter is needed and in dynamic use, such as machining centers and robotics.

For RoHS and WEEE Compliance, please consult factory.

**STANDARD COLORS:** Black. Other colors available upon request.

**WORKING TEMPERATURES:** -20°C to 80°C

**METAL USED:** Steel

**PLASTIC USED:** PVC

See the Chemical Resistance Guide on our website.

### Table: VJC Specifications

<table>
<thead>
<tr>
<th>Trade Size</th>
<th>Type</th>
<th>Diameter Inside Min/Max</th>
<th>Diameter Over Jacket Min/Max</th>
<th>Inside Bend Radius Static/ Dynamic (In.)</th>
<th>Wt. (Lbs.)/100 Ft.</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. (In.)</td>
<td>Metric (mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Part #</td>
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<tr>
<td>3/8</td>
<td>16</td>
<td>VJC-10</td>
<td>0.492 / 0.516</td>
<td>0.657 / 0.681</td>
<td>1.0 / 5.0</td>
<td>14</td>
<td>100</td>
</tr>
<tr>
<td>1/2</td>
<td>-</td>
<td>VJC-11</td>
<td>0.622 / 0.646</td>
<td>0.799 / 0.823</td>
<td>1.0 / 6.0</td>
<td>16</td>
<td>100</td>
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<td>3/4</td>
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<td>0.815 / 0.839</td>
<td>0.996 / 1.020</td>
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<td>100</td>
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<tr>
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<td>-</td>
<td>VJC-13</td>
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<td>1.240 / 1.264</td>
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<td>100</td>
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<td>1.378 / 1.402</td>
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<td>VJC-15</td>
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<td>VJC-16</td>
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<td>93</td>
<td>25</td>
</tr>
</tbody>
</table>

## 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 steel.

**APPLICATION:** Type ALT is often used where weight or corrosive atmospheres are an issue. When comparing identical trade sizes, Type ALT weighs approximately 37% less than Type LT. Uses standard liquidtight connectors.

RoHS and WEEE Compliant.

**STANDARD COLORS:** Machine Tool Gray and Black. Other colors available upon request.

**WORKING TEMPERATURES:** -20°C to 80°C

**METAL USED:** Aluminum

**PLASTIC USED:** PVC

See the Chemical Resistance Guide on our website.

### Table: ALT Specifications

<table>
<thead>
<tr>
<th>Trade Size</th>
<th>Type</th>
<th>Diameter Inside Min/Max</th>
<th>Diameter Over Jacket Min/Max</th>
<th>Inside Bend Radius Static/ Dynamic (In.)</th>
<th>Wt. (Lbs.)/100 Ft.</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. (In.)</td>
<td>Metric (mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Part #</td>
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<tr>
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<td>ALT-11</td>
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<td>100</td>
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<td>ALT-17</td>
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</tr>
<tr>
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<td>ALT-18</td>
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<td>144</td>
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<td>ALT-19</td>
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<td>14.0</td>
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<td>ALT-500</td>
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<td>ALT-600</td>
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<td>-</td>
<td>22.5</td>
<td>316</td>
<td>25</td>
</tr>
</tbody>
</table>

See page 37 for Dimensions.
Non-halogen, low smoke, 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, it is ideal for field installation in confined, public areas such as subways, tunnels, etc.

**CONSTRUCTION:**
Type ZHLA has a flexible inner core made from a spiral wound strip of heavy-gauge, hot-dipped galvanized steel. The 3/8 through 1-1/4 inch trade sizes contain an integral bonding strip of copper. The 1-1/2 inch and larger are designed with a fully interlocked strip.

The specially formulated thermoplastic black polyurethane jacket has excellent flame resistance and low smoke and toxicity generation characteristics. It is also resistant to Ozone, Hydrocarbons, Moderate Chemicals, Oils and Fuels.

**APPLICATION:**
There are many situations and areas where PVC is not allowed for electrical construction. The jacketing material used for ZHLA virtually eliminates the release of acidic gases found in PVC products.
- 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):
- 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 600 volts and lower potential circuits.
- Sunlight-resistant.
- Suitable as a grounding conductor when used for circuits rated up to 20A for the 3/8 and 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 Article 250.118(6).
- 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
- Meets the same specifications as Type LA on Page 7.

**STANDARD COLORS:** Black

**WORKING TEMPERATURES:**
-40°C to 80°C Air / 60°C Wet / 70°C Oil

**METAL USED:** Steel

**PLASTIC USED:** PU

See the Chemical Resistance Guide on our website.

**Combustion and Flammability Properties:** See chart on page 17.

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

RoHS and WEEE Compliant.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs.) / 100 Ft.</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
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</thead>
<tbody>
<tr>
<td>3/8</td>
<td>ZHLA-10</td>
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<td>100</td>
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<td>1/2</td>
<td>ZHLA-11</td>
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<td>32</td>
<td>100</td>
<td>88111</td>
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<tr>
<td>3/4</td>
<td>ZHLA-12</td>
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<td>53</td>
<td>100</td>
<td>88121</td>
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<tr>
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<td>ZHLA-13</td>
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<td>82</td>
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<td>1-1/4</td>
<td>ZHLA-14</td>
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<td>88192</td>
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</tbody>
</table>

See page 37 for Dimensions.
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:**
The flexible inner core of this product is made from a galvanized steel strip. As in Type LT, this core contains string packing between the helical convolutions in trade sizes 3/8 through 2 inch. The specially formulated thermoplastic polyurethane jacket has excellent flame retardation and low smoke and toxicity generation characteristics. Acidic gases such as hydrogen chloride, hydrogen fluoride and hydrogen bromide are virtually eliminated as products of combustion.

**APPLICATION:**
This product is ideally suited for installation in confined or enclosed areas where construction materials must have limited smoke, low flame spread and low toxic gas emissions in the event of fire. Such applications include mass transit vehicles where CEA is extensively used for wiring harnesses within and under passenger rail cars. Other applications include use in underground subway structures and tunnels. RoHS and WEEE Compliant.

**STANDARD COLORS:**
Gray and Black. Other colors are available upon request. Part numbers above designate gray jacket.

**WORKING TEMPERATURES:**
-40°C to 80°C

**METAL USED:**
Steel

**PLASTIC USED:**
PU

See the Chemical Resistance Guide on our website.

---

**TYPE CEA**

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Minimum Jacket Thickness</th>
<th>Inside Bend Radius (In.)</th>
<th>Weight (Lbs.)/100 Ft.</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>CEA-10</td>
<td>0.030</td>
<td>1.5</td>
<td>20</td>
<td>100 / 888016 / 88801</td>
<td>1000 / -/-</td>
</tr>
<tr>
<td>1/2</td>
<td>CEA-11</td>
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<td>2.0</td>
<td>24</td>
<td>100 / 888116 / 88811</td>
<td>1000 / 888146 / 88814</td>
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<tr>
<td>3/4</td>
<td>CEA-12</td>
<td>0.035</td>
<td>2.5</td>
<td>33</td>
<td>100 / 888216 / 88821</td>
<td>500 / 888246 / 88824</td>
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<tr>
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<td>CEA-13</td>
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<td>53</td>
<td>100 / 888326 / 88832</td>
<td>200 / 888346 / 88834</td>
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<tr>
<td>1-1/4</td>
<td>CEA-14</td>
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<td>3.5</td>
<td>68</td>
<td>100 / 888426 / 88842</td>
<td>- / 888446 / 88844</td>
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<td>1-1/2</td>
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<td>150 / 888546 / 88854</td>
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<td>- / 888646 / 88864</td>
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<td>100 / 888826 / 88882</td>
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<td>17.5</td>
<td>468</td>
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<td>22.5</td>
<td>572</td>
<td>100 / - / -</td>
<td>- / -</td>
</tr>
</tbody>
</table>

See page 37 for Dimensions.

**TYPE ACEA, CEA AND ZHLA COMBUSTION & FLAMMABILITY PROPERTIES**

<table>
<thead>
<tr>
<th>Combustion &amp; Flammability Properties:</th>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Burn (Material)</td>
<td>UL94</td>
<td>V-0 Rating; No Flaming Drips</td>
</tr>
<tr>
<td>Vertical Burn (Conduit)</td>
<td>UL360</td>
<td>Pass; No Flaming Drips</td>
</tr>
<tr>
<td>Oxygen Index %</td>
<td>D2863</td>
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<tr>
<td>Flame Spread Index</td>
<td>ASTM E162</td>
<td>20; No Flaming Drips</td>
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<tr>
<td>Flame Propagation</td>
<td>ASTM CS42 (NFPA-130)</td>
<td>Pass; No Flaming Drips</td>
</tr>
<tr>
<td>Smoke Generation (Flaming)</td>
<td>ASTM E662 (NFPA 258)</td>
<td>Ds 50@1.5 Min / Ds 102@4.0 Min</td>
</tr>
<tr>
<td>Smoke Generation (Non-Flaming)</td>
<td>ASTM E662 (NFPA258)</td>
<td>Ds 5@1.5 Min / Ds 26@4.0 Min</td>
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<tr>
<td>Toxic Gas Generation</td>
<td>BOMBARDIER SMP 800-C</td>
<td>Pass</td>
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<tr>
<td>Toxicity Index</td>
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</table>

Test data is based on controlled laboratory conditions and does not necessarily reflect performance in actual fire conditions. Additional product information available upon request.
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:
The flexible inner core of this product is made from an aluminum alloy strip. This core contains string packing between the helical convolutions in trade sizes 3/8 through 1-1/4 inch. The specially formulated thermoplastic polyurethane jacket has excellent flame retardation and low smoke and toxicity generation characteristics. Acidic gases such as hydrogen chloride, hydrogen fluoride and hydrogen bromide are virtually eliminated as products of combustion.

APPLICATION:
This product is ideally suited for installation in confined or enclosed areas where construction materials must have limited smoke, low flame spread and low toxic gas emissions in the event of fire.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Minimum Jacket Thickness</th>
<th>Inside Bend Radius (In.)</th>
<th>Weight (Lbs./100 Ft.)</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Part #</td>
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<td>25</td>
<td>888726 / 88872</td>
</tr>
<tr>
<td>3</td>
<td>CEA-18</td>
<td>0.050</td>
<td>10.0</td>
<td>252</td>
<td>25</td>
<td>888826 / 88882</td>
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<td>4</td>
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<td>888926 / 88892</td>
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<td>17.5</td>
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<td>25</td>
<td>- / 88582</td>
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<td>6</td>
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<td>572</td>
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<td>- / -</td>
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</tbody>
</table>

See page 37 for Dimensions.

TYPE ACEA, CEA AND ZHLA COMBUSTION & FLAMMABILITY PROPERTIES

<table>
<thead>
<tr>
<th>Combustion &amp; Flammability Properties</th>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Burn (Material)</td>
<td>UL94</td>
<td>V-0 Rating; No Flaming Drips</td>
</tr>
<tr>
<td>Vertical Burn (Conduit)</td>
<td>UL360</td>
<td>Pass; No Flaming Drips</td>
</tr>
<tr>
<td>Oxygen Index %</td>
<td>D2860</td>
<td>28.5</td>
</tr>
<tr>
<td>Flame Spread Index</td>
<td>ASTM E162</td>
<td>20; No Flaming Drips</td>
</tr>
<tr>
<td>Flame Propagation</td>
<td>ASTM CS42 (NFPA-130)</td>
<td>Pass; No Flaming Drips</td>
</tr>
<tr>
<td>Smoke Generation (Flaming)</td>
<td>ASTM E662 (NFPA 258)</td>
<td>Ds 50 @ 1.5 Min / Ds 102 @ 4.0 Min</td>
</tr>
<tr>
<td>Smoke Generation (Non-Flaming)</td>
<td>ASTM E662 (NFPA258)</td>
<td>Ds 5 @ 1.5 Min / Ds 26 @ 4.0 Min</td>
</tr>
<tr>
<td>Toxic Gas Generation</td>
<td>BOMBARDIER SMP 800-C</td>
<td>Pass</td>
</tr>
<tr>
<td>Toxicity Index</td>
<td>NES 713</td>
<td>3.9</td>
</tr>
</tbody>
</table>

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

**Available in Types:**
LA, LT, LOR, EF, ATLA, AT, ATX, ALT, ACEA, CEA, SLA, EMS, EMCS, LNM-P, NM, NMHT

**SUGGESTED APPLICATIONS:**

<table>
<thead>
<tr>
<th>Conduit Color</th>
<th>Suggested Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cream</td>
<td>Office Modular Partitions</td>
</tr>
<tr>
<td>Brown</td>
<td>Office Modular Partitions</td>
</tr>
<tr>
<td>Blue</td>
<td>Computer Rooms/Data Cables, Low Voltage Wiring</td>
</tr>
<tr>
<td>Green</td>
<td>Hospitals and Healthcare</td>
</tr>
<tr>
<td>Yellow</td>
<td>Caution Areas, Special Equipment, High Voltage Wiring, Earth Moving Equipment</td>
</tr>
<tr>
<td>Orange</td>
<td>Construction, Auto Repair, Fiber Optic Systems</td>
</tr>
<tr>
<td>Red</td>
<td>Fire Alarms, Security Systems, Emergency Circuits</td>
</tr>
<tr>
<td>White</td>
<td>Dairy Equipment, Food Processing Equipment</td>
</tr>
</tbody>
</table>

* 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 Conduit

The 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).

These conduits are used to protect sensitive electronic circuits used in communications, radar and data transmission from outside interference, or “noise.” The reverse situation is also an issue. Today’s Original Equipment Manufacturers (OEMs) are finding that, if they wish to ship electrical equipment into the European community, they may need to be in compliance with CE standards that reduce the allowable amount of EMI/RFI emissions from electrical apparatus.

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

<table>
<thead>
<tr>
<th>Conduit Type</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE SLA</td>
<td>22</td>
</tr>
<tr>
<td>TYPE EMS</td>
<td>23</td>
</tr>
<tr>
<td>TYPE EMCS</td>
<td>24</td>
</tr>
</tbody>
</table>

Distinctive Characteristics Include:
- UL Listed (Type SLA)
- Accepts standard liquidtight fittings
- Withstands wide temperature ranges
- Three levels of EMI/RFI protection

Markets We Serve:
- Medical
- Military
- Industrial
- Government/Defense
- Commercial
- Telecommunications
- Aerospace
- Public transit
- Utilities

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

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.
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 1 MHz to 10 MHz Electric Field, to 100 MHz to 1 GHz Planewave Field and 2 GHz to 6 GHz Microwave Field. Tests were performed per MIL-STD-285 on 1” trade size conduit using standard liquidtight fittings from Thomas & Betts Series 5300. Results are based on controlled laboratory conditions and may vary in actual field-installed conditions.
TYPE **SLA™**

Type SLA is identical to standard UL listed liquidtight flexible steel conduit, 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. Please see the Shielding Effectiveness chart on page 21.

**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).
- Suitable for use in hazardous locations: Class I, Div. 2 and Classes II and III.
- PVC jacket is resistant to a wide variety of oils, acids, alkaline and ultraviolet light.
- Accepts standard metallic liquidtight fittings.

**METAL USED:** Steel

**PLASTIC USED:** PVC

See the Chemical Resistance Guide on our website.

For a low-smoke, low-flame spread, zero-halogen version, ask for HFSLA™.

**STANDARD COLORS:**
Black. Other colors and jacketing materials available upon request.

**WORKING TEMPERATURES:**
-20°C to 60°C

**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.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Weight (Lbs./100 Ft.)</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length Part #</td>
<td>Length Part #</td>
</tr>
<tr>
<td>3/8</td>
<td>SLA-10</td>
<td>2.0</td>
<td>29</td>
<td>100 78901</td>
<td>500 78903</td>
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<tr>
<td></td>
<td>SLA-11</td>
<td>3.0</td>
<td>32</td>
<td>100 78911</td>
<td>500 78913</td>
</tr>
<tr>
<td></td>
<td>SLA-12</td>
<td>4.2</td>
<td>53</td>
<td>100 78921</td>
<td>500 78924</td>
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<tr>
<td>1</td>
<td>SLA-13</td>
<td>5.5</td>
<td>82</td>
<td>100 78932</td>
<td>400 78934</td>
</tr>
<tr>
<td>1-1/4</td>
<td>SLA-14</td>
<td>7.0</td>
<td>102</td>
<td>50 78942</td>
<td>200 78944</td>
</tr>
<tr>
<td>1-1/2</td>
<td>SLA-15</td>
<td>4.5</td>
<td>124</td>
<td>50 78952</td>
<td>150 78954</td>
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<tr>
<td>2</td>
<td>SLA-16</td>
<td>6.0</td>
<td>145</td>
<td>50 78962</td>
<td>100 78964</td>
</tr>
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</table>

See page 37 for Dimensions.

**COMBUSTION & FLAMMABILITY PROPERTIES**

<table>
<thead>
<tr>
<th>TEST</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Burn (Material)</td>
<td>UL94 V-O rating: no flaming drips</td>
</tr>
<tr>
<td>Vertical Burn (Conduit)</td>
<td>UL360 Pass; no flaming drips</td>
</tr>
<tr>
<td>Oxygen Index %</td>
<td>D2863 28.5</td>
</tr>
<tr>
<td>Flame Spread Index</td>
<td>ASTM E162 20; no flaming drips</td>
</tr>
<tr>
<td>Flame Propagation</td>
<td>ASTM C542 (NFPA-130) Pass; no flaming drips</td>
</tr>
<tr>
<td>Smoke Generation (Flaming)</td>
<td>ASTM E662 (NFPA-258) Ds 50@1.5 min / Ds 102@4.0 min</td>
</tr>
<tr>
<td>Smoke Generation (Non-flaming)</td>
<td>ASTM E662 (NFPA-258) Ds 5@1.5 min / Ds 26@4.0 min</td>
</tr>
<tr>
<td>Toxic Gas Generation</td>
<td>Bombardier SMP 800-C Pass</td>
</tr>
<tr>
<td>Toxicity Index</td>
<td>NES 713 3.9</td>
</tr>
</tbody>
</table>

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 EMS™

Type EMS has an inner core made from a fully interlocked bronze strip and does not contain a braided shield. Please see shielding effectiveness chart on page 21.

Accepts standard metallic liquidtight fittings.

**RoHS and WEEE Compliant.**

**STANDARD COLORS:**
Gray. Other colors and jacketing materials are available upon request.

For UL and CSA version, consult factory.

**WORKING TEMPERATURES:** -55°C to 105°C

**METAL USED:** Bronze

**PLASTIC USED:** PVC

See the Chemical Resistance Guide on our website.

For a low-smoke, low-flame spread, zero-halogen version, ask for HFEMS™.

### Interlock

![Interlock](Image)

Made in the USA

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Weight (Lbs./100 Ft.)</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
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</thead>
<tbody>
<tr>
<td>3/8</td>
<td>EMS-10</td>
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<td>100</td>
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<tr>
<td>1/2</td>
<td>EMS-11</td>
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<td>35</td>
<td>100</td>
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<tr>
<td>3/4</td>
<td>EMS-12</td>
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<td>43</td>
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<tr>
<td>1</td>
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<td>85</td>
<td>100</td>
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<tr>
<td>1-1/4</td>
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<td>101</td>
<td>50</td>
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<td>50</td>
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<td>2-1/2</td>
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<tr>
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<td>EMS-18</td>
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<td>25</td>
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</tr>
<tr>
<td>4</td>
<td>EMS-19</td>
<td>17.0</td>
<td>388</td>
<td>25</td>
<td>78892</td>
</tr>
</tbody>
</table>

### 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. Please see the Shielding Effectiveness chart on page 21.

Accepts standard metallic liquidtight fittings.

**RoHS and WEEE Compliant.**

**STANDARD COLORS:**
Black. Other colors and jacketing materials available.

For UL and CSA version, consult factory.

**WORKING TEMPERATURES:** -55°C to 105°C

**METAL USED:** Bronze

**PLASTIC USED:** PVC

See the Chemical Resistance Guide on our website.

For a low-smoke, low-flame spread, zero-halogen version, ask for HFEMCS™.

### Interlock

![Interlock](Image)

Made in the USA

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Weight (Lbs./100 Ft.)</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
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<tbody>
<tr>
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<td>EMCS-12</td>
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<td>100</td>
<td>78722</td>
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<tr>
<td>1</td>
<td>EMCS-13</td>
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<td>85</td>
<td>100</td>
<td>78732</td>
</tr>
<tr>
<td>1-1/4</td>
<td>EMCS-14</td>
<td>4.5</td>
<td>101</td>
<td>50</td>
<td>78742</td>
</tr>
<tr>
<td>1-1/2</td>
<td>EMCS-15</td>
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<td>50</td>
<td>78752</td>
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<tr>
<td>2</td>
<td>EMCS-16</td>
<td>9.5</td>
<td>180</td>
<td>50</td>
<td>78762</td>
</tr>
</tbody>
</table>

See page 37 for Dimensions.
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.

**Distinctive Characteristics Include:**
- UL recognized, UL listed, CSA certified
- 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

<table>
<thead>
<tr>
<th>Conduit Type</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE BR</td>
<td>25</td>
</tr>
<tr>
<td>TYPE ABR</td>
<td>26</td>
</tr>
<tr>
<td>TYPE ABRH</td>
<td>27</td>
</tr>
<tr>
<td>TYPE FSC</td>
<td>27</td>
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<td>TYPE USL</td>
<td>28</td>
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<tr>
<td>TYPE UG</td>
<td>28</td>
</tr>
<tr>
<td>TYPE SL</td>
<td>29</td>
</tr>
<tr>
<td>TYPE PF</td>
<td>30</td>
</tr>
<tr>
<td>WHIPS</td>
<td>31</td>
</tr>
</tbody>
</table>

**Fixture Whips**

Flexible Metal Pre-Assembled Whips
- Used for lighting fixture installation as well as many other electrical equipment uses.
- Reduces jobsite labor and material costs

See page 31 for details.
This non-jacketed flexible steel “Blue Ribbon” (BR) conduit has many universal wiring applications. It is often referred to as “Greenfield” or “Reduced Wall Flex”

CONSTRUCTION:
Type BR is formed from a highly corrosion-resistant, hot-dipped galvanized steel. Its profile and helical shape allow it to withstand substantial impact and crushing forces.

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

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.

- 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).
- Leads of motors (Section 430.223).
- 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).

Types BR and ABR Strip Profile

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Diameter (In.)</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs./100 Ft.)</th>
<th>Coil Footage</th>
<th>Reel Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Part #</td>
</tr>
<tr>
<td>3/8</td>
<td>BR-10</td>
<td>0.375/0.393</td>
<td>0.560/0.610</td>
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<td>25</td>
<td>69308</td>
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<td>1/2</td>
<td>BR-11</td>
<td>0.625/0.645</td>
<td>0.860/0.920</td>
<td>3.0</td>
<td>25</td>
<td>69318</td>
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<tr>
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<td>BR-12</td>
<td>0.812/0.835</td>
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<td>30</td>
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<td>BR-13</td>
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<td>50</td>
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</tr>
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<td>BR-14</td>
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<td>1.550/1.630</td>
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<td>BR-17</td>
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<td>2.860/3.060</td>
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<td>69372</td>
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<td>3.360/3.560</td>
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<td>190</td>
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<td>3-1/2</td>
<td>BR-350</td>
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<td>3.860/4.060</td>
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<td>170</td>
<td>69387</td>
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<td>4</td>
<td>BR-19</td>
<td>4.000/-</td>
<td>4.360/4.560</td>
<td>20.0</td>
<td>200</td>
<td>69392</td>
</tr>
</tbody>
</table>

- Listed File #E53253 (sizes 3/8 through 3 inch). Conforms to Underwriters Laboratories Standard ANSI/UL-1 for Flexible Metal Conduit.
- RoHS and WEEE Compliant.
- Certified File #LL18858 (3/8 inch size only). Conforms to CSA 22.2 No. 56 for use per the Canadian electrical code C22.1 Section 12-1000.

METAL USED: Steel

Made in the USA

www.electriflex.com | electri-flex company
TYPE ABR

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

CONSTRUCTION:
Type ABR is formed using a high strength aluminum alloy strip. The result is a conduit with similar characteristics to those of Type BR steel but at about 1/3 the weight.

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

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

- 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).
- Listed File #E53253 (sizes 3/8 and 1/2 through 3 inch). Conforms to Underwriters Laboratories Standard ANSI/UL-1 for Flexible Metal Conduit.
- RoHS and WEEE Compliant.
- Certified File #LL18858 (3/8 and 7/16 inch size only) Conforms to CSA 22.2 No. 56 for use per the Canadian electrical code C22.1 Section 12-1000.

METAL USED: Aluminum

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Diameter (In.)</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs./100 Ft.)</th>
<th>Coil Footage (Ft.)</th>
<th>Reel Footage (Ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Inner Min/Max</td>
<td>Outer Min/Max</td>
<td>Length</td>
<td>Part #</td>
<td>Length</td>
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<tr>
<td>3/8</td>
<td>ABR-10</td>
<td>0.375 / 0.393</td>
<td>0.560 / 0.610</td>
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<td>7</td>
<td>25</td>
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<td>7/16</td>
<td>ABR-716</td>
<td>0.437 / 0.457</td>
<td>- / 0.675</td>
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<tr>
<td>1/2</td>
<td>ABR-11</td>
<td>0.625 / 0.645</td>
<td>0.860 / 0.920</td>
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<td>25</td>
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<tr>
<td>3/4</td>
<td>ABR-12</td>
<td>0.812 / 0.835</td>
<td>1.045 / 1.105</td>
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<td>25</td>
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<tr>
<td>1</td>
<td>ABR-13</td>
<td>1.000 / 1.040</td>
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<tr>
<td>1-1/4</td>
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<td>1-1/2</td>
<td>ABR-15</td>
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<td>1.850 / 1.950</td>
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<td>26</td>
<td>-</td>
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<tr>
<td>2</td>
<td>ABR-16</td>
<td>2.000 / 2.080</td>
<td>2.350 / 2.454</td>
<td>10.0</td>
<td>35</td>
<td>-</td>
</tr>
<tr>
<td>2-1/2</td>
<td>ABR-17</td>
<td>2.500 / 2.700</td>
<td>2.860 / 3.060</td>
<td>12.5</td>
<td>57</td>
<td>-</td>
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<td>3</td>
<td>ABR-18</td>
<td>3.000 / 3.200</td>
<td>3.360 / 3.560</td>
<td>15.0</td>
<td>70</td>
<td>-</td>
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<tr>
<td>3-1/2</td>
<td>ABR-350</td>
<td>3.500 / -</td>
<td>3.860 / 4.060</td>
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<td>58</td>
<td>-</td>
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<td>4</td>
<td>ABR-19</td>
<td>4.000 / -</td>
<td>4.360 / 4.560</td>
<td>20.0</td>
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<td>-</td>
</tr>
</tbody>
</table>
This CSA-certified, non-jacketed flexible aluminum conduit has many universal wiring applications.

CONSTRUCTION:
Type ABRH is formed from a heavy-gauge aluminum strip. Its profile and helical shape allow it to withstand substantial impact and crushing forces.

APPLICATION:
This conduit is intended as a metal raceway for wires and cable where CSA Certification is required. Suitable for use with connectors intended for “FMC” (Flexible Metal Conduit).

FILE # LL 18858 Conforms to CSA 22.2 No. 56 for use per the Canadian Electrical Code C22.1 Section 12-1000

RoHS and WEEE Compliant.

Certified File # LL 18858 Conforms to CSA 22.2 No. 56 for use per the Canadian Electrical Code C22.1 Section 12-1000

METAL USED: Aluminum

This non-UL, non-jacketed flexible steel conduit has many universal wiring applications.

CONSTRUCTION:
Type FSC is formed from a corrosion resistant hot-dipped galvanized steel. It’s profile and helical shape allow it to withstand substantial impact and crushing forces.

APPLICATION:
This conduit as a metal raceway for wire and cable where UL Listing is not required. Suitable for use with connectors intended for FMC (Flexible metal conduit)

METAL USED: Steel

<table>
<thead>
<tr>
<th>Trade Size</th>
<th>Type</th>
<th>Diameter (In.)</th>
<th>Inside Bend Radius (In.)</th>
<th>Weight (Lbs./100 Ft.)</th>
<th>Coil Footage (Ft.)</th>
<th>Reel Footage (Ft.)</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td>Inner Min/Max</td>
<td>Outer Min/Max</td>
<td></td>
<td>Length</td>
<td>Part #</td>
</tr>
<tr>
<td>3/8</td>
<td>ABRH-10</td>
<td>0.375/0.393</td>
<td>0.560/0.610</td>
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<td>7</td>
<td>100</td>
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<tr>
<td>7/16</td>
<td>ABRH-716</td>
<td>0.437/0.457</td>
<td>0.675/0.800</td>
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<td>100</td>
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<td>1/2</td>
<td>ABRH-11</td>
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<td>0.860/0.920</td>
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<td>16</td>
<td>100</td>
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<tr>
<td>3/4</td>
<td>ABRH-12</td>
<td>0.812/0.835</td>
<td>1.045/1.105</td>
<td>4</td>
<td>18</td>
<td>100</td>
</tr>
<tr>
<td>1</td>
<td>ABRH-13</td>
<td>1.000/1.040</td>
<td>1.300/1.380</td>
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<td>35</td>
<td>50</td>
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<tr>
<td>1-1/4</td>
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<td>1.550/1.630</td>
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<td>50</td>
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<td>1-1/2</td>
<td>ABRH-15</td>
<td>1.500/1.575</td>
<td>1.850/1.950</td>
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<td>55</td>
<td>25</td>
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<tr>
<td>2</td>
<td>ABRH-16</td>
<td>2.000/2.080</td>
<td>2.350/2.454</td>
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<td>73</td>
<td>25</td>
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<tr>
<td>2-1/2</td>
<td>ABRH-17</td>
<td>2.500/2.700</td>
<td>2.860/3.060</td>
<td>12.5</td>
<td>90</td>
<td>25</td>
</tr>
<tr>
<td>3</td>
<td>ABRH-18</td>
<td>3.000/3.200</td>
<td>3.360/3.560</td>
<td>15</td>
<td>107</td>
<td>25</td>
</tr>
<tr>
<td>4</td>
<td>ABRH-19</td>
<td>4.000/-/-</td>
<td>4.360/4.560</td>
<td>20</td>
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</table>

|            | FSC-10 | 0.375/0.393 | 0.560/0.610 | 2 | 13 | 100 | 69501 | 1000 | 69504 |
| 1/2        | FSC-11 | 0.625/0.645 | 0.860/0.920 | 3 | 19 | 100 | 69511 | 1000 | 69514 |
| 3/4        | FSC-12 | 0.812/0.835 | 1.045/1.105 | 4 | 25 | 100 | 69522 | 500/1000 | 69523/69524 |
| 1          | FSC-13 | 1.000/1.040 | 1.300/1.380 | 5 | 28 | 50 | 69532 | - | - |
| 1-1/4      | FSC-14 | 1.250/1.300 | 1.550/1.630 | 6.2 | 38 | 50 | 69542 | - | - |
| 1-1/2      | FSC-15 | 1.500/1.575 | 1.850/1.950 | 7.5 | 48 | 25 | 69552 | - | - |
| 2          | FSC-16 | 2.000/2.080 | 2.350/2.454 | 10 | 100 | 25 | 69562 | - | - |
| 2-1/2      | FSC-17 | 2.500/2.700 | 2.860/3.060 | 12.5 | 166 | 25 | 69572 | - | - |
| 3          | FSC-18 | 3.000/3.200 | 3.360/3.560 | 15 | 190 | 25 | 69582 | - | - |
| 3-1/2      | FSC-350 | 3.500/-/- | 3.860/4.060 | 17.5 | 170 | 25 | 69587 | - | - |
| 4*         | FSC-19 | 4.000/-/- | 4.360/4.560 | 20 | 200 | 25 | 69592 | - | - |
**TYPE USL**

A fully-interlocked, non-UL flexible steel conduit designed for high strength in “tight-spot” installations.

**CONSTRUCTION:**
Helically formed from hot-dipped galvanized steel, Type USL offers good corrosion resistance and provides excellent mechanical protection to enclosed circuits. It is sized to be used with a variety of set-screw and clamp type connectors.

**APPLICATION:**
This product is intended as a factory-installed component of various assemblies. Typical uses include: modular office partitions, showcase lighting and range tops. For component applications within Canada, ask for CSA Report #LO 4000-4875.

UL Recognized File #E53253
RoHS and WEEE Compliant.

**METAL USED:** Steel

**Squarelock - Type USL**

---

**TYPE UG**

A fully-interlocked, non-UL flexible steel conduit designed for high strength in “tight-spot” installations.

**CONSTRUCTION:**
This conduit is manufactured from a bright tin-plated steel strip that is fully interlocked at the edges, to produce a strong yet flexible product. The interlock feature does not allow the conduit to unravel if twisted, and permits the conduit to retain its shape when bent. This lightweight product is compatible with many set-screw and clamp type connectors.

**APPLICATION:**
The bright appearance of the finished product lends itself to installations where the conduit may be visible after the final assembly.

RoHS and WEEE Compliant.

**METAL USED:** Steel

**Trade Size (In.)**

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Diameter (In.)</th>
<th>Min Inside Radius (In.)</th>
<th>Weight (Lbs.)/100 Ft.</th>
<th>Coil Footage (Ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Inner Min/Max</td>
<td>Outer Min/Max</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>-</td>
<td>USL-516</td>
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<tr>
<td>-</td>
<td>USL-380</td>
<td>0.360/0.390</td>
<td>0.520/0.550</td>
<td>1-1/4</td>
<td>15</td>
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<tr>
<td>-</td>
<td>USL-716</td>
<td>0.422/0.452</td>
<td>0.582/0.612</td>
<td>1-1/2</td>
<td>17</td>
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<tr>
<td>3/8</td>
<td>USL-120</td>
<td>0.485/0.515</td>
<td>0.645/0.675</td>
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<td>19</td>
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<td>-</td>
<td>USL-916</td>
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<td>0.707/0.737</td>
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<td>20</td>
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<td>1/2</td>
<td>USL-580</td>
<td>0.622/0.642</td>
<td>0.732/0.765</td>
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<td>24</td>
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<td>3/4</td>
<td>USL-340</td>
<td>0.820/0.840</td>
<td>0.930/0.960</td>
<td>2</td>
<td>32</td>
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<tr>
<td>UG</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>-</td>
<td>UG-380</td>
<td>0.443/0.473</td>
<td>0.563/0.593</td>
<td>2.5</td>
<td>16</td>
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<tr>
<td>-</td>
<td>UG-120</td>
<td>0.755/0.785</td>
<td>0.875/0.905</td>
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<td>-</td>
<td>UG-340</td>
<td>0.943/0.973</td>
<td>1.063/1.093</td>
<td>3.5</td>
<td>26</td>
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<tr>
<td>-</td>
<td>UG-100</td>
<td>1.208/1.238</td>
<td>1.328/1.358</td>
<td>4.5</td>
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<tr>
<td>-</td>
<td>UG-125</td>
<td>1.485/1.515</td>
<td>1.578/1.608</td>
<td>5.5</td>
<td>50</td>
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<tr>
<td>-</td>
<td>UG-150</td>
<td>1.735/1.765</td>
<td>1.843/1.873</td>
<td>6.5</td>
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<td>-</td>
<td>UG-200</td>
<td>2.235/2.265</td>
<td>2.390/2.420</td>
<td>8.5</td>
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<td>UG-250</td>
<td>2.735/2.765</td>
<td>2.937/2.967</td>
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<td>UG-300</td>
<td>3.360/3.390</td>
<td>3.438/3.468</td>
<td>13.0</td>
<td>105</td>
</tr>
</tbody>
</table>

Note: Electrical trade sizes do not apply to Type UG.
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:**
Type SL is helically wound from a strip of electro-galvanized steel. It is sized to be used with a variety of set-screw and clamp type connectors.

**APPLICATION:**
Offers good mechanical protection to wiring in a variety of OEM applications. RoHS and WEEE Compliant.

**METAL USED:** Steel

---

<table>
<thead>
<tr>
<th>Trade Size</th>
<th>Diameter (in.)</th>
<th>Min Inside Radius (in.)</th>
<th>Weight (Lbs.)/100 Ft.</th>
<th>Coil Footage (Ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.</td>
<td>Metric</td>
<td>Inner Min/Max</td>
<td>Outer Min/Max</td>
<td>Length</td>
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<td>-</td>
<td>-</td>
<td>0.172/0.202</td>
<td>0.280/0.310</td>
<td>0.75</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>0.235/0.265</td>
<td>0.328/0.358</td>
<td>0.75</td>
</tr>
<tr>
<td>5/16</td>
<td>-</td>
<td>0.297/0.327</td>
<td>0.391/0.421</td>
<td>0.75</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>0.360/0.390</td>
<td>0.485/0.515</td>
<td>1.00</td>
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<tr>
<td>-</td>
<td>-</td>
<td>0.422/0.452</td>
<td>0.547/0.577</td>
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<td>0.672/0.702</td>
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<td>0.735/0.765</td>
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<tr>
<td>3/4</td>
<td>25mm</td>
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<td>1.041/1.066</td>
<td>1.191/1.216</td>
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<tr>
<td>-</td>
<td>32mm</td>
<td>1.102/1.122</td>
<td>1.252/1.272</td>
<td>2.00</td>
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</tbody>
</table>
**TYPE PF**

Plen-Flex® is a smoketight, liquidtight flexible metal tubing and is listed for use in plenums and other air-handling spaces. Often referred to as FMT.

**CONSTRUCTION:**
Plen-Flex is constructed from a steel strip that contains an extra coating of zinc galvanizing for added protection against corrosion. This strip is formed into a corrugated profile and is tightly interlocked to form a smoketight, airtight and liquidtight pliable tube that weighs about 40% less than FMC (Greenfield).

**APPLICATION:**
This tubing is used to wire drop-in lighting fixtures and other equipment found in plenum ceilings and other air-handling areas. Because it is smoke-tight when installed with Type PFC fittings and gasketed junction boxes, it would prevent smoke and other products of combustion from escaping out of the raceway and into air-handling areas in the event of an electrical fire.

There is also no plastic jacketing material that might give off toxic gases or burn. The fact that the system is liquidtight means that it will not allow the entrance of moisture from sprinkler systems into its interior. It is intended to be installed in accordance with Article 360 of the NEC (ANSI/NFPA-70).

- Listed for containment of 1000 volts and lower potential circuits.
- For use in dry locations.
- In accessible locations when protected from physical damage or concealed, such as above suspended ceilings. See Article 300.22(c).
- In branch circuits.
- Listed for grounding per Article 250.118(8).
- Limited to six foot lengths. Article 360.12(6).

**METAL USED:** Steel

---

**TYPE PFC**

This patented one-piece zinc die-cast liquidtight connector is designed to screw into flexible metallic tubing (FMT). The end of the tubing embeds itself into the rubberized polymer gasket creating a smoke-tight seal as required by the NEC Article 360.40.

- UL Listed - File #E80522
- Approved for use by the City of Chicago.

**TRADE SIZE**

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Actual Inside Diameter (In.)</th>
<th>Wt. (Lbs./100 Ft.)</th>
<th>Min. Radii For Flexing Use NEC 360.24(a) (In.)</th>
<th>Min. Radii For Fixed Bends NEC 360.24(b) (In.)</th>
<th>Lengths Available (Flt.)</th>
<th>Thread Size (NPT) (In.)</th>
<th>Part #</th>
<th>Quantity Per Carton</th>
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<td>PF-10</td>
<td>1/2</td>
<td>12</td>
<td>10</td>
<td>3-1/2</td>
<td>3, 4, 5, 6</td>
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<td>Consult Factory</td>
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<tr>
<td></td>
<td>1/2</td>
<td>PF-11</td>
<td>5/8</td>
<td>15</td>
<td>12-1/2</td>
<td>4</td>
<td>3, 4, 5, 6</td>
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<td>Consult Factory</td>
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<td><strong>PFC</strong>***</td>
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<td>PFC-10</td>
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<td>-</td>
<td>-</td>
<td>1/2</td>
<td>910883 Consult Factory</td>
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<td>PFC-11</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>1/2</td>
<td>910885 Consult Factory</td>
</tr>
</tbody>
</table>

* This item must use the Type PFC connector. ** This item is used with the Type PF flexible metallic tubing.
Flexible Whips

Flexible Metal Pre-assembled Whips

- Used for lighting fixture installation as well as many other electrical equipment uses.
- Reduces jobsite labor and material costs.

CONSTRUCTION:
- UL Listed flexible metal conduit.
- Stranded (stock) or solid THHN wire with 6" leads.
- Internal, zinc die-cast fittings with steel locknuts.
- Fixture whips are made per NEC requirements unless otherwise specified and are UL Listed under Wiring Assemblies (QQYX) category.
- AWG 14 = 15 Amp.
- AWG 12 = 20 Amp.

ALSO AVAILABLE:
- Aluminum Conduit Pre-Assembled Whips.
- Liquatite Metallic Whips.
- Solid Conductors.
- Snap-In Connectors.
- Additional configurations available upon request.
- Packaged in 25 piece cartons and 250 piece drums.

RoHS and WEEE Compliant.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Length (In.)</th>
<th>Wire Gauge</th>
<th>Color Config.</th>
<th>Quantity</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>72</td>
<td>12/2</td>
<td>Black-White</td>
<td>25, 250</td>
<td>SW10122</td>
</tr>
<tr>
<td>3/8</td>
<td>72</td>
<td>12/3</td>
<td>Black-White-Green</td>
<td>25, 250</td>
<td>SW10123</td>
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<tr>
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<td>72</td>
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<td>Black-White</td>
<td>25, 250</td>
<td>SW10142</td>
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<tr>
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<td>14/3</td>
<td>Black-White-Green</td>
<td>25, 250</td>
<td>SW10143</td>
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<tr>
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<td>72</td>
<td>14/4</td>
<td>Black-White-Red-Green</td>
<td>25, 250</td>
<td>SW10144</td>
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<td>18/2</td>
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<td>25, 250</td>
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<td>18/3</td>
<td>Black-White-Green</td>
<td>25, 250</td>
<td>SW10183</td>
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</tbody>
</table>
Nonmetallic

These 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.

**Distinctive Characteristics Include:**
- UL recognized, UL listed, CSA certified
- Flame- and sunlight-resistant
- High impact and crush strength
- Tight bends
- Wide temperature ranges

**Applications / Vertical Markets:**
- Air Conditioning Hookups
- Machine Tools
- Cable Carriers
- Pools and Spas
- Outdoor Wiring
- Solar / Alternative Energy
- Robotics
- Power Trac

<table>
<thead>
<tr>
<th>Conduit Type</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORRLOK</td>
<td>See Below</td>
</tr>
<tr>
<td>TYPE LMN-P</td>
<td>33</td>
</tr>
<tr>
<td>TYPE NM</td>
<td>34</td>
</tr>
<tr>
<td>TYPE NMHT</td>
<td>34</td>
</tr>
<tr>
<td>TYPE NM2</td>
<td>35</td>
</tr>
</tbody>
</table>

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 Corrlok catalog.
This 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:
Type LNM-P consists of layered, Type A construction that incorporates a smooth seamless inner core of flexible PVC bonded to a covering of flexible PVC. Between these layers is a woven nylon mesh for added reinforcement. The PVC material is a high-quality, flame-retardant compound that resists oils, mild acids and exposure to sunlight.

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 600 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.
- Listed File #E79308 Conforms to Underwriters Laboratories Standard ANSI/UL 1660 Type A.
- RoHS and WEEE Compliant.
- Certified File #LL18858 Conforms to CSA 22.2 No. 227.2 Type A

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.

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

STANDARD COLORS: Safety Orange. Also available in Black and Gray.

WORKING TEMPERATURES:
-20° to 60°C

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs)/100 Ft.</th>
<th>Diameter</th>
<th>Carton Footage</th>
<th>Reel Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Inner Min/Max</td>
<td>Outer Min/Max</td>
<td>Length</td>
</tr>
<tr>
<td>3/8</td>
<td>LNM-P 10</td>
<td>2.5</td>
<td>16</td>
<td>0.485/0.505</td>
<td>0.755/0.775</td>
<td>250 87002</td>
</tr>
<tr>
<td>1/2</td>
<td>LNM-P 11</td>
<td>3.0</td>
<td>21</td>
<td>0.620/0.640</td>
<td>0.910/0.930</td>
<td>200 87102</td>
</tr>
<tr>
<td>3/4</td>
<td>LNM-P 12</td>
<td>4.0</td>
<td>31</td>
<td>0.815/0.835</td>
<td>1.150/1.170</td>
<td>175 87202</td>
</tr>
<tr>
<td>1</td>
<td>LNM-P 13</td>
<td>6.0</td>
<td>42</td>
<td>1.030/1.055</td>
<td>1.415/1.440</td>
<td>100 87302</td>
</tr>
<tr>
<td>1-1/4</td>
<td>LNM-P 14</td>
<td>7.0</td>
<td>61</td>
<td>1.370/1.395</td>
<td>1.800/1.825</td>
<td>100 87402</td>
</tr>
<tr>
<td>1-1/2</td>
<td>LNM-P 15</td>
<td>8.0</td>
<td>79</td>
<td>1.585/1.620</td>
<td>2.045/2.080</td>
<td>50 87502</td>
</tr>
<tr>
<td>2</td>
<td>LNM-P 16</td>
<td>9.0</td>
<td>120</td>
<td>2.045/2.080</td>
<td>2.605/2.640</td>
<td>50 87602</td>
</tr>
</tbody>
</table>
A general-purpose, nonmetallic liquidtight conduit offers excellent protection to wiring from abrasion, sunlight, mild acids, alkaline and oils. It is often used for air conditioning hookups 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 600 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 1,000 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.

- Listed File #E79308
- RoHS and WEEE Compliant.

**STANDARD COLORS:** Machine Tool Gray. Also available in Black.

**WORKING TEMPERATURES:** -20°C to 80°C / Dry / 60°C Wet / 70°C Oil

**PLASTIC USED:** PVC

See the Chemical Resistance Guide on our website.

*Note: Also available on reels. Please consult factory.

Made in the USA

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**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 NMHT is made in the same manner as Type NM. It contains a rigid PVC spiral reinforcement within the wall of the conduit.

- Listed File #E79308
- RoHS and WEEE Compliant.

**NM AND NMHT 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 for further information.

**STANDARD COLORS:** Black

**WORKING TEMPERATURES:** -20°C to 105°C Dry / 60°C Wet / 70°C Oil

**PLASTIC USED:** PVC

See the Chemical Resistance Guide on our website.

Made in the USA

---

**Trade Size (In.)**

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs.) / 100 Ft.</th>
<th>Coil/Reel Footage</th>
<th>Coil Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>NM-10</td>
<td>2.0</td>
<td>10</td>
<td>100/1000</td>
<td>81001/81004</td>
</tr>
<tr>
<td>1/2</td>
<td>NM-11</td>
<td>3.25</td>
<td>11</td>
<td>100/1000</td>
<td>81011/81014</td>
</tr>
<tr>
<td>3/4</td>
<td>NM-12</td>
<td>4.25</td>
<td>15</td>
<td>100/500</td>
<td>81022/81024</td>
</tr>
<tr>
<td>1</td>
<td>NM-13</td>
<td>6.5</td>
<td>25</td>
<td>100/400</td>
<td>81032/81034</td>
</tr>
<tr>
<td>1-1/4</td>
<td>NM-14</td>
<td>8.0</td>
<td>34</td>
<td>100/-</td>
<td>81042/-</td>
</tr>
<tr>
<td>1-1/2</td>
<td>NM-15</td>
<td>9.0</td>
<td>42</td>
<td>50/-</td>
<td>81052/-</td>
</tr>
<tr>
<td>2</td>
<td>NM-16</td>
<td>11.0</td>
<td>60</td>
<td>50/-</td>
<td>81062/-</td>
</tr>
</tbody>
</table>

See page 37 for Dimensions.
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 for many OEM applications. Used for wiring harnesses, laboratory equipment, fiber optics, etc.

CONSTRUCTION:
Co-extruded from both flexible and rigid PVC. The rigid spiral PVC reinforcement is embedded within the wall of the tubing.

Conforms to CSA 22.2 No. 227.3
RoHS and WEEE Compliant.

FITTINGS:
Intended for use with nonmetallic liquidtight fittings marked FNMC-B. See Type NMLT Connectors for further information.

STANDARD COLORS: Black
WORKING TEMPERATURES: -20°C to 70°C
PLASTIC USED: PVC
See the Chemical Resistance Guide on our website.

Type NMLT and NMSC nonmetallic connectors are intended to be used with liquidtight nonmetallic conduit Type B; Electri-Flex Types NM 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

STANDARD COLORS: Gray. For black, add suffix B to catalog number.

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Config.</th>
<th>Inside Bend Radius (In.)</th>
<th>Wt. (Lbs.)/100 Ft.</th>
<th>Length</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
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<td>NM2-140</td>
<td>0.6</td>
<td>5</td>
<td>100</td>
<td>82000</td>
</tr>
<tr>
<td>3/8</td>
<td>NM2-10</td>
<td>0.7</td>
<td>6</td>
<td>100</td>
<td>82001</td>
</tr>
<tr>
<td>1/2</td>
<td>NM2-11</td>
<td>0.9</td>
<td>8</td>
<td>100</td>
<td>82011</td>
</tr>
<tr>
<td>3/4</td>
<td>NM2-12</td>
<td>1.1</td>
<td>10</td>
<td>100</td>
<td>82022</td>
</tr>
<tr>
<td>1</td>
<td>NM2-13</td>
<td>1.3</td>
<td>15</td>
<td>100</td>
<td>82032</td>
</tr>
<tr>
<td>1-1/4</td>
<td>NM2-14</td>
<td>1.7</td>
<td>20</td>
<td>100</td>
<td>82042</td>
</tr>
<tr>
<td>1-1/2</td>
<td>NM2-15</td>
<td>1.9</td>
<td>26</td>
<td>50</td>
<td>82052</td>
</tr>
<tr>
<td>2</td>
<td>NM2-16</td>
<td>2.4</td>
<td>36</td>
<td>50</td>
<td>82062</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trade Size (In.)</th>
<th>Type</th>
<th>Inner Min./Max.</th>
<th>Outer Min./Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>NM2-140</td>
<td>0.385/0.405</td>
<td>0.560/0.575</td>
</tr>
</tbody>
</table>

See page 37 for 3/8” – 2” Dimensions.
Conduit Cutting

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 #BLC-1, 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

<table>
<thead>
<tr>
<th>Trade Size</th>
<th>Flexible Metal Conduit — BR, ABR</th>
<th>Liquidtight Flexible Metal Conduit — LT, LOR, EF, LA, CSA, ALT, AT, ATLA, ATX, CEA, ZH, LAS, EMS, EMSP, ACEA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Internal Diameter (In.)</td>
<td>Total Area 100% (sq. In.)</td>
</tr>
<tr>
<td>3/8</td>
<td>0.384</td>
<td>0.116</td>
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<tr>
<td>1/2</td>
<td>0.635</td>
<td>0.317</td>
</tr>
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<td>3/4</td>
<td>0.824</td>
<td>0.533</td>
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<td>1</td>
<td>1.020</td>
<td>0.817</td>
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<td>1.275</td>
<td>1.277</td>
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<td>1-1/2</td>
<td>1.538</td>
<td>1.857</td>
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<tr>
<td>2</td>
<td>2.040</td>
<td>3.269</td>
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<td>2-1/2</td>
<td>2.500</td>
<td>4.909</td>
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<tr>
<td>3</td>
<td>3.000</td>
<td>7.069</td>
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</table>

<table>
<thead>
<tr>
<th>Flexible Nonmetallic Conduit Type A — BR, ABR</th>
<th>Liquidtight Nonmetallic Conduit Type B — NM, NMHT, NM2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>0.495</td>
</tr>
<tr>
<td>1/2</td>
<td>0.630</td>
</tr>
<tr>
<td>3/4</td>
<td>0.825</td>
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<tr>
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<td>1.043</td>
</tr>
<tr>
<td>1-1/4</td>
<td>1.383</td>
</tr>
<tr>
<td>1-1/2</td>
<td>1.603</td>
</tr>
<tr>
<td>2</td>
<td>2.063</td>
</tr>
<tr>
<td>3/8</td>
<td>0.494</td>
</tr>
<tr>
<td>1/2</td>
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<tr>
<td>3/4</td>
<td>0.830</td>
</tr>
<tr>
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<td>1.054</td>
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<td>1.395</td>
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<td>1-1/2</td>
<td>1.588</td>
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<td>2.033</td>
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<table>
<thead>
<tr>
<th>NPT Threaded Fittings — Fitting Thread (NPT)</th>
<th>NPT Threaded Fittings — Knock Out Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>7/8</td>
</tr>
<tr>
<td>1/2</td>
<td>7/8</td>
</tr>
<tr>
<td>3/4</td>
<td>1-3/32</td>
</tr>
<tr>
<td>1</td>
<td>1-23/64</td>
</tr>
<tr>
<td>1-1/4</td>
<td>1-23/32</td>
</tr>
<tr>
<td>1-1/2</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>2-1/2</td>
</tr>
</tbody>
</table>
## Standard Dimensions

### LT - LOR - LTFG - EF - LA - CSA - ALT - AT - ATLA - ATX
### ACEA - CEA - ZHLA - SLA - EMS - EMCS - NM - NM2

## STANDARD DIMENSIONS FOR LIQUITIGHT FLEXIBLE CONDUIT

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

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

<table>
<thead>
<tr>
<th>Length</th>
<th>Weight</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Foot = 0.305 Meters</td>
<td>1 Pound = 454 Grams</td>
<td>C° = Degrees Centigrade</td>
</tr>
<tr>
<td>1 Meter = 3.281 Feet</td>
<td>1 Pound = 0.454 Kilograms</td>
<td>F° = Degrees Fahrenheit</td>
</tr>
<tr>
<td>1 Inch = 25.4 Millimeters</td>
<td>1 Kilogram = 2.205 Pounds</td>
<td>C° = (F° - 32) ÷ 1.8</td>
</tr>
<tr>
<td>1 Millimeter = 0.030 Inches</td>
<td>1 Gram = 0.035 Ounces</td>
<td>F° = (C° x 1.8) + 32</td>
</tr>
<tr>
<td>1 Inch = 2.54 Centimeters</td>
<td>1 Ounce = 28.349 Grams</td>
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</tr>
<tr>
<td>1 Centimeter = 0.304 Inches</td>
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</tr>
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</table>

## NEMA Guidelines Publication

NEMA (National Electrical Manufacturers Association) has developed and published an APPLICATION AND INSTALLATION GUIDELINES FOR FLEXIBLE AND LIQUITIGHT FLEXIBLE METAL AND NONMETALLIC CONDUITS. This publication, NEMA RV 3-2010, is available at this link: www.nema.org/stds/rv3.cfm#download
Reel Dimensions

<table>
<thead>
<tr>
<th>Trade Size (in.)</th>
<th>Type</th>
<th>58”</th>
<th>42”</th>
<th>30”</th>
<th>31” Special</th>
<th>24”</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>LT</td>
<td>LA</td>
<td>LT</td>
<td>LA</td>
<td>EF</td>
</tr>
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<td>3/8</td>
<td>10</td>
<td>6000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1/2</td>
<td>11</td>
<td>4500</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1000</td>
</tr>
<tr>
<td>3/4</td>
<td>12</td>
<td>2500</td>
<td>1000</td>
<td>-</td>
<td>-</td>
<td>500</td>
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<tr>
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<td>400</td>
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<td>1000</td>
<td>-</td>
<td>400</td>
<td>-</td>
<td>200</td>
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<td>1-1/2</td>
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<td>750</td>
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<td>300</td>
<td>-</td>
<td>-</td>
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<tr>
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<td>16</td>
<td>500</td>
<td>-</td>
<td>150</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2-1/2</td>
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<td>275</td>
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<tr>
<td>3</td>
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</tr>
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<td>19</td>
<td>100</td>
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</tr>
<tr>
<td>4</td>
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<td>50</td>
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<tr>
<td>5</td>
<td>21</td>
<td>25</td>
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<tr>
<td>6</td>
<td>22</td>
<td>10</td>
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APPROXIMATE REEL DIMENSIONS

<table>
<thead>
<tr>
<th>“A” (in.)</th>
<th>“B” (in.)</th>
<th>“C” (in.)</th>
<th>Weight (lbs.)</th>
<th>Qty./Skid</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>19.5</td>
<td>12</td>
<td>17</td>
<td>4</td>
</tr>
<tr>
<td>30</td>
<td>19.5</td>
<td>12</td>
<td>21</td>
<td>4</td>
</tr>
<tr>
<td>32 (Special)</td>
<td>19.5</td>
<td>14</td>
<td>23</td>
<td>4</td>
</tr>
<tr>
<td>42</td>
<td>20</td>
<td>14</td>
<td>24</td>
<td>70</td>
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<tr>
<td>58 (Jumbo)</td>
<td>36</td>
<td>28</td>
<td>208</td>
<td>1</td>
</tr>
</tbody>
</table>

Lazy Louie 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 (26” standard or 31” heavy-duty) hassle-free, and can take loaded reels of 400 lbs. capacity.

Weight 11 lbs.

P/N 90040
Cartons

<table>
<thead>
<tr>
<th>Trade Size (in.)</th>
<th>Catalog Number</th>
<th>Standard Carton Type</th>
<th>All</th>
<th>LNM-P</th>
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</thead>
<tbody>
<tr>
<td>3/8</td>
<td>10</td>
<td>100</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>1/2</td>
<td>11</td>
<td>100</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td>12</td>
<td>100</td>
<td>175</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>13</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>1-1/4</td>
<td>14</td>
<td>50</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>1-1/2</td>
<td>15</td>
<td>50</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>16</td>
<td>50</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>2-1/2</td>
<td>17</td>
<td>50</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>18</td>
<td>25</td>
<td>-</td>
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</tr>
<tr>
<td>3-1/2</td>
<td>350</td>
<td>25</td>
<td>-</td>
<td></td>
</tr>
<tr>
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<td>600</td>
<td>25</td>
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</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>Carton Type</th>
<th>Size: h x d x w (in.)</th>
<th>Carton Product Size (in.)</th>
<th>Ftg. Per Carton</th>
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</thead>
<tbody>
<tr>
<td>Liquatite Types LA, LT and EF</td>
<td></td>
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</tr>
<tr>
<td>R1</td>
<td>15 x 14-3/8 x 7-3/4</td>
<td>1/4</td>
<td>250</td>
</tr>
<tr>
<td>R2</td>
<td>17-5/8 x 16-3/4 x 8</td>
<td>1/2</td>
<td>100</td>
</tr>
<tr>
<td>R3</td>
<td>20-3/4 x 20-3/8 x 8</td>
<td>3/4</td>
<td>100</td>
</tr>
<tr>
<td>R4</td>
<td>25-1/4 x 24-1/2 x 8-1/4</td>
<td>1</td>
<td>1-1/4</td>
</tr>
<tr>
<td>R5</td>
<td>33-5/8 x 37 x 10-3/8</td>
<td>2</td>
<td>1-1/2</td>
</tr>
<tr>
<td>#3</td>
<td>52 x 52 x 8-1/2</td>
<td>2</td>
<td>2-1/2</td>
</tr>
<tr>
<td>3 &amp; 4</td>
<td>60-1/4 x 60-1/4 x 6-1/2</td>
<td>3-1/2</td>
<td>25</td>
</tr>
<tr>
<td>5 &amp; 6</td>
<td>66 x 66 x 12-1/2</td>
<td>5</td>
<td>25</td>
</tr>
</tbody>
</table>

Nonmetallic Type LNM-P

| SMALL LNM-P | 34-3/4 x 34-3/4 x 7 | 3/8 | 250 |
|            | 34-3/4 x 34-3/4 x 7 | 1/2 | 200 |
|            | 34-3/4 x 34-3/4 x 7 | 3/4 | 175 |
| Large LNM-P | 43 x 43 x 7-3/4    | 1   | 100 |
|            | 43 x 43 x 7-3/4    | 1-1/4 | 100 |
|            | 43 x 43 x 7-3/4    | 1-1/2 | 50  |

Nonmetallic Type NM and NM2

| -             | 20 x 6 x 20        | 3/8 | 100 |
| -             | 20 x 6 x 20        | 1/2 | 100 |
| -             | 22 x 7 x 22        | 3/4 | 100 |
| -             | 24 x 8 x 24        | 1   | 100 |
| -             | 26 x 9 x 26        | 1-1/4 | 100 |
| -             | 30 x 7 x 30        | 1-1/2 | 50  |
| -             | 30 x 7 x 30        | 2   | 50  |

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.