

# IN-LINE WATERTIGHT FUSE HOLDERS

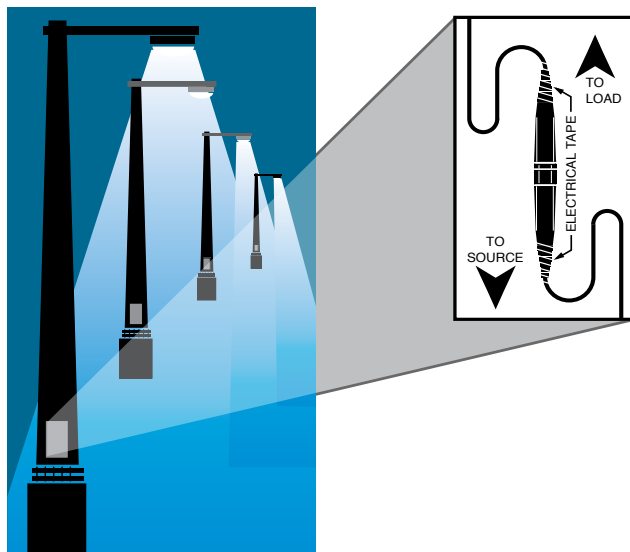


## Description

Recently redesigned, the Littelfuse 600 VAC/VDC in-line watertight fuse holders allow maximum protection for high humidity and corrosive environments. The fuse holders are designed to be touch-safe and flexible for use in a variety of applications. See the list below for the redesigned part numbers.

## Applications

- Street lighting and parking lot lighting
- Sports lighting and various outdoor illuminated signs
- Boat electrical circuits, tractors/yard equipment and general outdoor circuit protection (such as traffic signals, alley lighting and electric wheelchairs)



## Specifications

|                            |                                                                                                                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage rating</b>      | 600 VAC/VDC                                                                                                                                                                                                                                                                                      |
| <b>Ampere rating</b>       | up to 30 A                                                                                                                                                                                                                                                                                       |
| <b>Interrupting rating</b> | 200 kA rms symmetrical (with Class CC fuses)                                                                                                                                                                                                                                                     |
| <b>Approvals</b>           | <b>LEB/LEX series</b> UL Recognized Miscellaneous Fuse holder per UL UL 4248 (File: E14721)<br>CSA Certified per C22.2, No. 39 (File: LR7316)<br><b>LEC/LEY series</b> UL Listed Class CC Branch Circuit Fuse holder per UL 512 (File: E14721)<br>CSA Certified per C22.2, No. 39 (File: LR7316) |

## Features/Benefits

- Design increases safety by facilitating individual device disconnection for easy servicing, eliminating shock risk
- Increases efficiency by preventing faulted ballast from severely damaging fixture or device
- Designed to meet IP67 touch-safe standards
- Watertight o-ring seal
- Variety of terminations available for flexible design
- Insulating boots available for harsh environments

## Recommended Fuses

### LEB/LEX series:

Class CC Series: CCMR, KLDR, KLKR  
 Midget Series: BLF, BLN, FLM, FLQ, KKK, KLKD

### LEC/LEY series:

Class CC Series: CCMR, KLDR, KLKR

## Web Resources

Download CAD drawings, dimensions and other technical information: [littelfuse.com/in-line](http://littelfuse.com/in-line)

## Look for these part numbers featuring our improved design

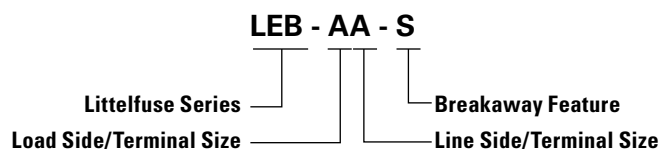
- Better surface area for ergonomic comfort, improved grip and better torque
- More pronounced seating – automatically seats as user begins twisting
- Chamfered edges for additional installation comfort

| BASE PART NUMBER | PREVIOUS ORDERING NUMBER | NEW ORDERING NUMBER |
|------------------|--------------------------|---------------------|
| LEB-AA           | OLEB00AAX                | OLEB00AAXK          |
| LEB-AA-S         | OLEB00AASX               | OLEB00AASXK         |
| LEB-AB           | OLEB00ABX                | OLEB00ABXK          |
| LEB-AYC-S        | OLEBAYCSX                | OLEBAYCSXK          |
| LEB-BB           | OLEB00BBX                | OLEB00BBXK          |
| LEB-JJ           | OLEB00JJX                | OLEB00JJXK          |
| LEB-JJ-S         | OLEB00JJSX               | OLEB00JJSXK         |

# IN-LINE WATERTIGHT FUSE HOLDERS

## Ordering Information

To order Littelfuse in-line fuse holders by part number, refer to the charts on the next page.



| SERIES | DESCRIPTION                                                           |
|--------|-----------------------------------------------------------------------|
| LEB    | One-pole in-line fuse holder for Midget and Class CC fuses            |
| LEC    | One-pole in-line fuse holder for Class CC fuses                       |
| LET    | One-pole in-line fuse holder with permanently installed solid neutral |
| LEX    | Two-pole in-line fuse holder for Midget and Class CC fuses            |
| LEY    | Two-pole in-line fuse holder for Class CC fuses                       |



## Insulating Boots

- Molded from engineering-grade thermoplastics which provide high resistance to corrosive environments
- For watertight protection of non-breakaway Y-pole termination, order one WPB1 and one WPB3 boot

| ORDERING NUMBER | TERMINAL TYPE |
|-----------------|---------------|
| WPB1            | A, B, C, D, J |
| WPB3            | Y             |

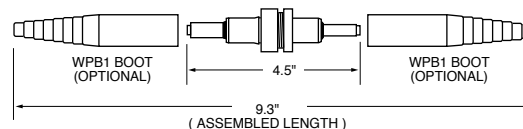
## Recommended Crimping Tools

The following crimping tools or equivalents may be used on either the non-breakaway or breakaway watertight in-line fuse holders.

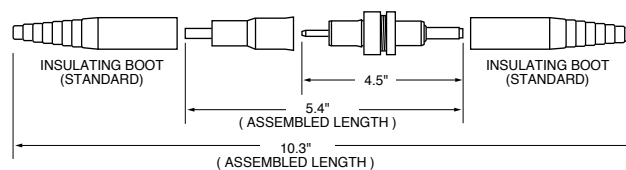
| TERMINAL SIZE | T&B PART NUMBER | BURNDY PART NUMBER |
|---------------|-----------------|--------------------|
| A             | WT161M          | —                  |
| B             | WT161M          | MR4C               |
| C             | M5-GREY         | Hypress Y34A       |
| D             | M5-BROWN        | Hypress Y34A       |

## Dimensions Inches

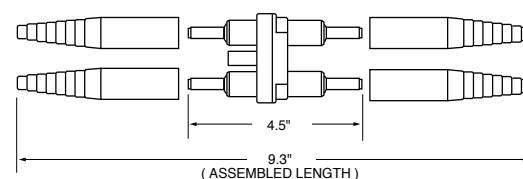
### 1-Pole



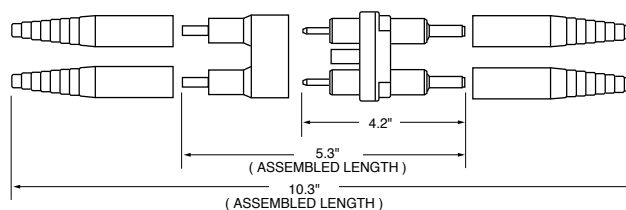
### 1-Pole Breakaway



### 2-Pole



### 2-Pole Breakaway



# IN-LINE WATERTIGHT FUSE HOLDERS

## Ordering Information (1-Pole LEB/LEC and 2-Pole LEX/LEY for Class CC and Midget Fuses)

| SINGLE POLE          |                        | DOUBLE POLE          |                        | LOAD TERMINAL SELECTION |                        |                    |             |               | LINE TERMINAL SELECTION   |                        |                    |             |               |
|----------------------|------------------------|----------------------|------------------------|-------------------------|------------------------|--------------------|-------------|---------------|---------------------------|------------------------|--------------------|-------------|---------------|
| STANDARD PART NUMBER | BREAKAWAY PART NUMBER  | STANDARD PART NUMBER | BREAKAWAY PART NUMBER  | TERMINAL TYPE           | WIRE SIZE RANGE        | WIRES PER TERMINAL | SOLID WIRE  | STRANDED WIRE | TERMINAL TYPE             | WIRE SIZE RANGE        | WIRES PER TERMINAL | SOLID WIRE  | STRANDED WIRE |
| LEB-AA<br>LEC-AA     | LEB-AA-S<br>LEC-AA-S   | LEX-AA<br>LEY-AA     | LEX-AA-S<br>LEY-AA-S   | Copper Crimp            | #12 to #8<br>#12       | 1<br>2             | •<br>•      | •<br>•        | Copper Crimp              | #12 to #8<br>#12       | 1<br>2             | •<br>•      | •<br>•        |
| LEB-AB<br>LEC-AB     | LEB-AB-S<br>LEC-AB-S   | LEX-AB<br>LEY-AB     | LEX-AB-S<br>LEY-AB-S   | Copper Crimp            | #12 to #8<br>#12       | 1<br>2             | •<br>•      | •<br>•        | Copper Crimp              | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   |
| LEB-AC<br>LEC-AC     | —<br>—                 | LEX-AC<br>LEY-AC     | —<br>—                 | Copper Crimp            | #12 to #8<br>#12       | 1<br>2             | •<br>•      | •<br>•        | Copper Crimp              | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        |
| LEB-AD<br>LEC-AD     | —<br>—                 | LEX-AD<br>LEY-AD     | —<br>—                 | Copper Crimp            | #12 to #8<br>#12       | 1<br>2             | •<br>•      | •<br>•        | Copper Crimp              | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        |
| LEB-AJ<br>LEC-AJ     | LEB-AJ-S<br>LEC-AJ-S   | —<br>—               | —<br>—                 | Copper Crimp            | #12 to #8<br>#12       | 1<br>2             | •<br>•      | •<br>•        | Copper Set-Screw          | #12 to #8<br>#10 to #2 | 1<br>1             | •<br>—      | —<br>•        |
| LEB-AYC<br>LEC-AYC   | LEB-AYC-S<br>LEC-AYC-S | LEX-AYC<br>LEY-AYC   | LEX-AYC-S<br>LEY-AYC-S | Copper Crimp            | #12 to #8<br>#12       | 1<br>2             | •<br>•      | •<br>•        | "Y" Type Copper Set-Screw | #12 to #8<br>#10 to #2 | 1<br>1             | •<br>—      | —<br>•        |
| LEB-BA<br>LEC-BA     | LEB-BA-S<br>LEC-BA-S   | LEX-BA<br>LEY-BA     | LEX-BA-S<br>LEY-BA-S   | Copper Crimp            | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   | Copper Crimp              | #12 to #8<br>#12       | 1<br>2             | •<br>•      | •<br>•        |
| LEB-BB<br>LEC-BB     | LEB-BB-S<br>LEC-BB-S   | LEX-BB<br>LEY-BB     | LEX-BB-S<br>LEY-BB-S   | Copper Crimp            | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   | Copper Crimp              | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   |
| LEB-BC<br>LEC-BC     | —<br>—                 | LEX-BC<br>LEY-BC     | —<br>—                 | Copper Crimp            | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   | Copper Crimp              | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        |
| LEB-BD<br>LEC-BD     | —<br>—                 | LEX-BD<br>LEY-BD     | —<br>—                 | Copper Crimp            | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   | Copper Crimp              | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        |
| LEB-BJ<br>LEC-BJ     | LEB-BJ-S<br>LEC-BJ-S   | —<br>—               | —<br>—                 | Copper Crimp            | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   | Copper Set-Screw          | #12 to #8<br>#10 - #2  | 1<br>1             | •<br>—      | —<br>•        |
| LEB-BYC<br>LEC-BYC   | LEB-BYC-S<br>LEC-BYC-S | LEX-BYC<br>LEY-BYC   | LEX-BYC-S<br>LEY-BYC-S | Copper Crimp            | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   | "Y" Type Copper Set-Screw | #12 to #8<br>#10 - #2  | 1<br>1             | •<br>—      | —<br>•        |
| LEB-CA<br>LEC-CA     | —<br>—                 | LEX-CA<br>LEY-CA     | —<br>—                 | Copper Crimp            | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        | Copper Crimp              | #12 to #8<br>#12       | 1<br>2             | •<br>•      | •<br>•        |
| LEB-CB<br>LEC-CB     | —<br>—                 | LEX-CB<br>LEY-CB     | —<br>—                 | Copper Crimp            | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        | Copper Crimp              | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   |
| LEB-CC<br>LEC-CC     | —<br>—                 | LEX-CC<br>LEY-CC     | —<br>—                 | Copper Crimp            | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        | Copper Crimp              | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        |
| LEB-CD<br>LEC-CD     | —<br>—                 | LEX-CD<br>LEY-CD     | —<br>—                 | Copper Crimp            | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        | Copper Crimp              | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        |
| LEB-CJ<br>LEC-CJ     | —<br>—                 | LEX-CJ<br>LEY-CJ     | —<br>—                 | Copper Crimp            | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        | Copper Set-Screw          | #12 to #8<br>#10 - #2  | 1<br>1             | •<br>—      | •<br>•        |
| LEB-CYC<br>LEC-CYC   | —<br>—                 | LEX-CYC<br>LEY-CYC   | —<br>—                 | Copper Crimp            | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        | "Y" Type Copper Set-Screw | #12 to #8<br>#10 to #2 | 1<br>1             | •<br>—      | —<br>•        |
| LEB-DA<br>LEC-DA     | —<br>—                 | LEX-DA<br>LEY-DA     | —<br>—                 | Copper Crimp            | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        | Copper Crimp              | #12 to #8<br>#12       | 1<br>2             | •<br>•      | —<br>•        |
| LEB-DB<br>LEC-DB     | —<br>—                 | LEX-DB<br>LEY-DB     | —<br>—                 | Copper Crimp            | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        | Copper Crimp              | #10<br>#6<br>#4        | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   |
| LEB-DC<br>LEC-DC     | —<br>—                 | LEX-DC<br>LEY-DC     | —<br>—                 | Copper Crimp            | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        | Copper Crimp              | #8<br>#4               | 2<br>1             | •<br>—      | •<br>•        |
| LEB-DD<br>LEC-DD     | —<br>—                 | LEX-DD<br>LEY-DD     | —<br>—                 | Copper Crimp            | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        | Copper Crimp              | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        |
| LEB-DJ<br>LEC-DJ     | —<br>—                 | LEX-DJ<br>LEY-DJ     | —<br>—                 | Copper Crimp            | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        | Copper Set-Screw          | #12 to #8<br>#10 - #8  | 2<br>1             | •<br>—      | •<br>•        |
| LEB-DYC<br>LEC-DYC   | —<br>—                 | LEX-DYC<br>LEY-DYC   | —<br>—                 | Copper Crimp            | #6<br>#2               | 2<br>1             | •<br>—      | •<br>•        | "Y" Type Copper Set-Screw | #12 to #8<br>#10 to #8 | 1<br>1             | •<br>—      | —<br>•        |
| LEB-JJ<br>LEC-JJ     | LEB-JJ-S<br>LEC-JJ-S   | LEX-JJ<br>LEY-JJ     | LEX-JJ-S<br>LEY-JJ-S   | Copper Set-Screw        | #12 to #8<br>#10 to #2 | 1<br>1             | •<br>•      | —<br>•        | Copper Set-Screw          | #12 to #8<br>#10 to #2 | 1<br>1             | •<br>—      | —<br>•        |
| LEB-JYC<br>LEC-JYC   | LEB-JYC-S<br>LEC-JYC-S | —<br>—               | —<br>—                 | Copper Set-Screw        | #12 to #8<br>#10 to #2 | 1<br>1             | •<br>—      | —<br>•        | "Y" Type Copper Set-Screw | #12 to #8<br>#10 to #2 | 1<br>1             | •<br>—      | —<br>•        |

# IN-LINE WATERTIGHT FUSE HOLDERS

## Ordering Information (Solid Neutral LET Fuse Holders)

| STANDARD PART NUMBER | BREAKAWAY PART NUMBER | FUSE TYPE     | LOAD TERMINAL SELECTION |                     |                    |             |               | LINE TERMINAL SELECTION   |                     |                    |             |               |
|----------------------|-----------------------|---------------|-------------------------|---------------------|--------------------|-------------|---------------|---------------------------|---------------------|--------------------|-------------|---------------|
|                      |                       |               | TERMINAL TYPE           | WIRE SIZE RANGE     | WIRES PER TERMINAL | SOLID WIRE  | STRANDED WIRE | TERMINAL TYPE             | WIRE SIZE RANGE     | WIRES PER TERMINAL | SOLID WIRE  | STRANDED WIRE |
| LET-AA               | LET-AA-S              | Solid Neutral | Copper Crimp            | #12 to #8 #12       | 1<br>2             | •<br>•      | •<br>•        | Copper Crimp              | #12 to #8 #12       | 1<br>2             | •<br>•      | •<br>•        |
| LET-AB               | LET-AB-S              | Solid Neutral | Copper Crimp            | #12 to #8 #12       | 1<br>2             | •<br>•      | •<br>•        | Copper Crimp              | #10 #6 #4           | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   |
| LET-AYC              | LET-AYC-S             | Solid Neutral | Copper Crimp            | #12 to #8 #12       | 1<br>2             | •<br>•      | •<br>•        | "Y" Type Copper Set-Screw | #12 to #8 #10 to #2 | 1<br>1             | •<br>—      | —<br>•        |
| LET-BA               | LET-BA-S              | Solid Neutral | Copper Crimp            | #10 #6 #4           | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   | Copper Crimp              | #12 to #8 #12       | 1<br>2             | •<br>•      | •<br>•        |
| LET-BB               | LET-BB-S              | Solid Neutral | Copper Crimp            | #10 #6 #4           | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   | Copper Crimp              | #10 #6 #4           | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   |
| LET-BYC              | LET-BYC-S             | Solid Neutral | Copper Crimp            | #10 #6 #4           | 2<br>1<br>1        | •<br>•<br>— | •<br>•<br>•   | "Y" Type Copper Set-Screw | #12 to #8 #10 to #2 | 1<br>1             | •<br>—      | —<br>•        |
| LET-JJ               | LET-JJ-S              | Solid Neutral | Copper Set-Screw        | #12 to #8 #10 to #2 | 1<br>1             | •<br>—      | —<br>•        | Copper Set-Screw          | #12 to #8 #10 to #2 | 1<br>1             | •<br>—      | —<br>•        |
| LET-JYC              | LET-JYC-S             | Solid Neutral | Copper Set-Screw        | #12 to #8 #10 to #2 | 1<br>1             | •<br>—      | —<br>•        | "Y" Type Copper Set-Screw | #12 to #8 #10 to #2 | 1<br>1             | •<br>—      | —<br>•        |

## Ordering Information (Terminals)

| TERMINAL DESIGNATION | TERMINAL DESCRIPTION       | WIRES PER TERMINAL | WIRE RANGE | SOLID WIRE | STRANDED WIRE |
|----------------------|----------------------------|--------------------|------------|------------|---------------|
| A                    | Copper Crimp               | 1                  | #12-#8     | •          | •             |
|                      |                            | 2                  | #12        | •          | •             |
| B                    | Copper Crimp               | 2                  | #10        | •          | •             |
|                      |                            | 1                  | #6         | •          | •             |
|                      |                            | 1                  | #4         | —          | •             |
| C                    | Copper Crimp               | 2                  | #8         | •          | •             |
|                      |                            | 1                  | #4         | —          | •             |
| D                    | Copper Crimp               | 2                  | #6         | •          | •             |
|                      |                            | 1                  | #2         | —          | •             |
| J                    | Copper Set-Screw           | 1                  | #12-#8     | •          | —             |
|                      |                            | 1                  | #10-#2     | —          | •             |
| Y (2 terminals)      | "Y" Style Copper Set-Screw | 1                  | #12-#8     | •          | —             |
|                      |                            | 1                  | #10-#2     | —          | •             |

# IN-LINE WATERTIGHT FUSE HOLDERS

## Two-Pole Breakaway Holder



### Features/Benefits

- LEXT-YY version has a permanently installed “neutral” slug to prevent the neutral from accidentally being fused
- LEX-YYC version allows for fusing of line-to-line loads or other applications requiring two fuses to disconnect under strain
- Fiberglass polymer body resists damage from impact
- Four “Y” type set-screw terminals accommodate a wide range of solid and stranded Cu or Al conductors
- O-ring and terminal boots form watertight seal, preventing leakage

### Specifications

|                            |                                                              |
|----------------------------|--------------------------------------------------------------|
| <b>Part numbers</b>        | LEXT-YY-S (Solid neutral)<br>LEX-YYC-S                       |
| <b>Voltage Rating</b>      | 600 VAC/VDC                                                  |
| <b>Ampere Rating</b>       | 30 A                                                         |
| <b>Interrupting Rating</b> | 200 kA with Class CC Fuses                                   |
| <b>Y Terminals</b>         | Tin Plated Copper w/ set screws                              |
| <b>Wire Size</b>           | 1 solid #12 to #8 or<br>1 stranded #10 to #2                 |
| <b>Approvals</b>           | UL Recognized (File: E14721)<br>CSA Certified (File: LR7316) |

### Description

Littelfuse LEXT-YY-S and LEX-YYC-S series breakaway fuse holders meet state and federal highway commission safety standards requiring fuse holders to readily disconnect from power in case of a pole knockdown.

The breakaway feature consists of a receptacle permanently attached to the power line and a fuse holder with matching terminals. If a knockdown occurs, the parts separate, leaving the energized conductor recessed and unexposed.

### Applications

- Street lighting
- Marinas
- Travel trailer parks
- Physically strained fuse holders applications

### Web Resources

Additional technical information:  
[littelfuse.com/In-Line](http://littelfuse.com/In-Line)

### Ordering Information

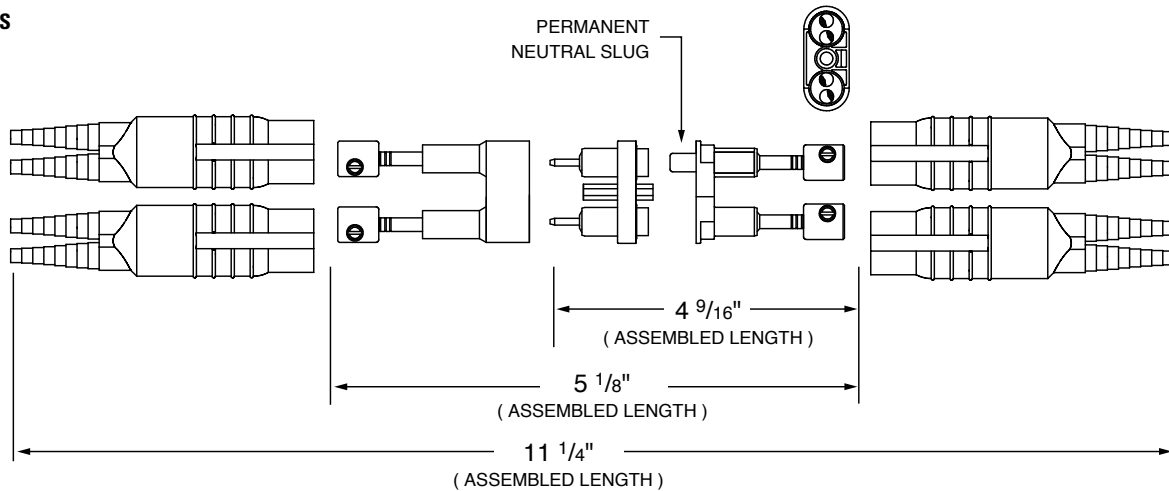
| ORDERING NUMBER |           | FUSE TYPE       | LOAD TERMINAL SELECTION   |                 |                    |            |               | LINE TERMINAL SELECTION   |                 |                    |            |               |
|-----------------|-----------|-----------------|---------------------------|-----------------|--------------------|------------|---------------|---------------------------|-----------------|--------------------|------------|---------------|
|                 |           |                 | TERMINAL TYPE             | WIRE SIZE RANGE | WIRES PER TERMINAL | SOLID WIRE | STANDARD WIRE | TERMINAL TYPE             | WIRE SIZE RANGE | WIRES PER TERMINAL | SOLID WIRE | STANDARD WIRE |
| LEXTYYS         | LEXT0YYSX | Midget Class CC | “Y” type Copper Set-Screw | #12 to #8       | 1                  | •          | —             | “Y” type Copper Set-Screw | #12 to #8       | 1                  | •          | —             |
|                 |           |                 |                           | #10 to #2       | 1                  | —          | •             |                           | #10 to #2       | 1                  | —          | •             |
| LEXYYS          | OLEXYYSX  | Midget Class CC | “Y” type Copper Set-Screw | #12 to #8       | 1                  | •          | —             | “Y” type Copper Set-Screw | #12 to #8       | 1                  | •          | —             |
|                 |           |                 |                           | #10 to #2       | 1                  | —          | •             |                           | #10 to #2       | 1                  | —          | •             |

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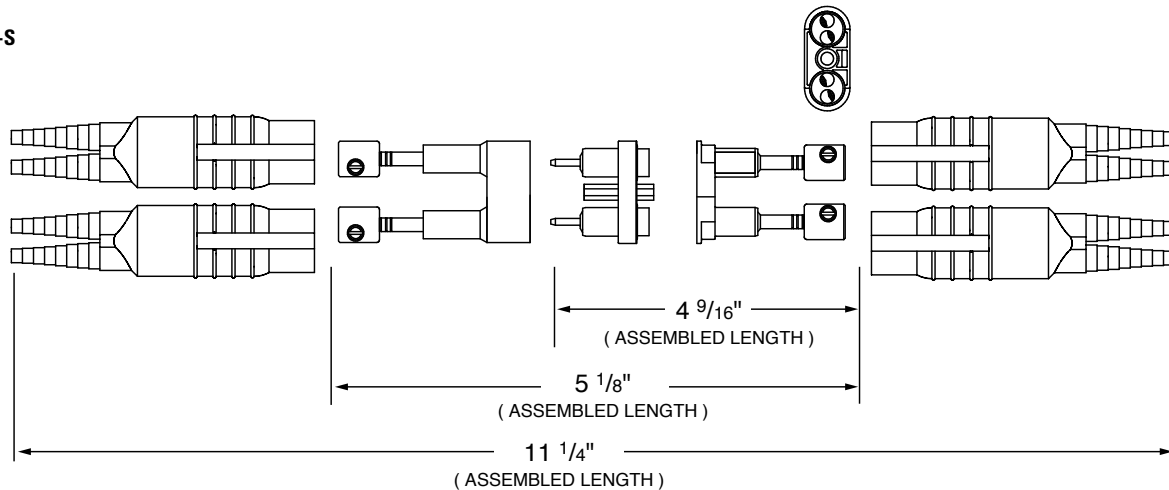
## Two-Pole Breakaway Holder

### Dimensions Inches

#### LEXT-YY-S



#### LEX-YY-C-S



### Recommended Fuses

Class CC Series: CCMR, KLDR, KLKR

Midget Series: BLF, BLN, FLM, FLQ, KKK, KLKD

Four WPB3 insulating boots come standard with the LEXT-YY-S and LEX-YY-C-S fuse holders. Molded from non-conductive engineering grade thermoplastic to deliver a watertight seal in corrosive environments, they can be trimmed to the specific conductor size insuring a snug fit.