

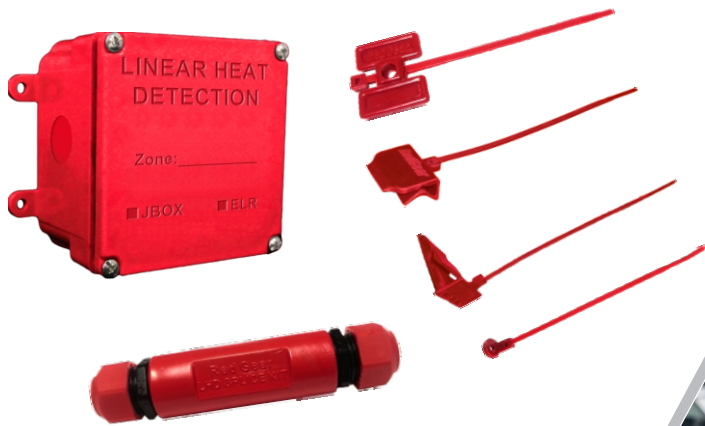


[www.safefiredetection.com](http://www.safefiredetection.com)

# **RedGear<sup>®</sup>**

*Custom Installation Supplies*

## **LINEAR HEAT INSTALLATION MATERIALS**



Scan QR Code  
For More  
Information

## ABOUT US

Traditionally, the fire industry has adapted off the shelf installation materials to install linear heat detection systems. At the request of a customer, Safe Fire Detection evaluated the installation materials, and with the assistance of the installers, redesigned new more practical installation systems.

RedGear's new simple designs combine the best of the old with the new by eliminating the need to use multiple parts for a single mount. This results in parts that are faster and easier to install at a significantly lower cost from a single source.



## MADE IN THE U.S.A

RedGear is bringing back jobs to the United States of America. We engineer, build and deliver directly from our manufacturing facility in North Carolina. We combine complex specialty chemicals to optimize the quality and performance of all of our accessories and Pipe fittings.

- Affordable
- Easy to Use
- Reliable
- Single Source



## CUSTOM DESIGNED FOR THE FIRE INDUSTRY

- Fire Resistant
- UL Listed
- Lowest Cost Guaranteed
- Meets NFPA Standards
- Designed, Built and Shipped from North Carolina, USA



**MADE IN THE USA**

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# *RedGear*® **LHD Supplies**

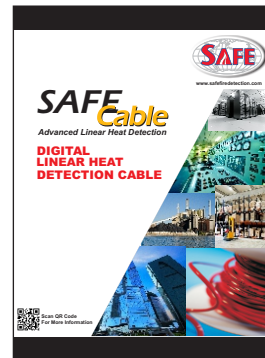
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**ALSO AVAILABLE FROM SAFE**

## **LINEAR HEAT DETECTION CABLE**

For Information on SafeCable LHD, a Catalog,  
Training, Project Assistance, Technical Support, or  
becoming a SafeCable Distributor  
visit

[www.safefiredetection.com](http://www.safefiredetection.com)

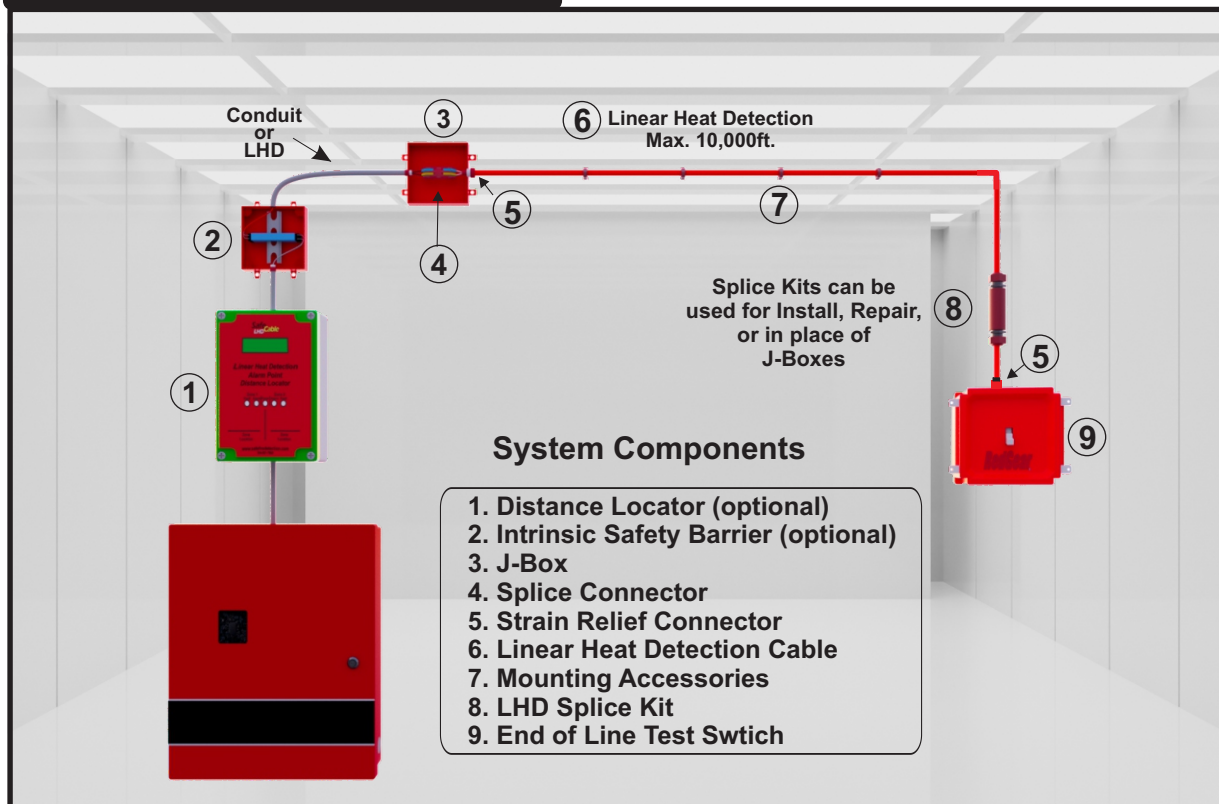


5915 Stockbridge Dr. • Monroe, NC 28110  
Tel: 704-821-7920 • Fax: 704-821-4327

# RedGear

## Linear Heat Detection System Examples:

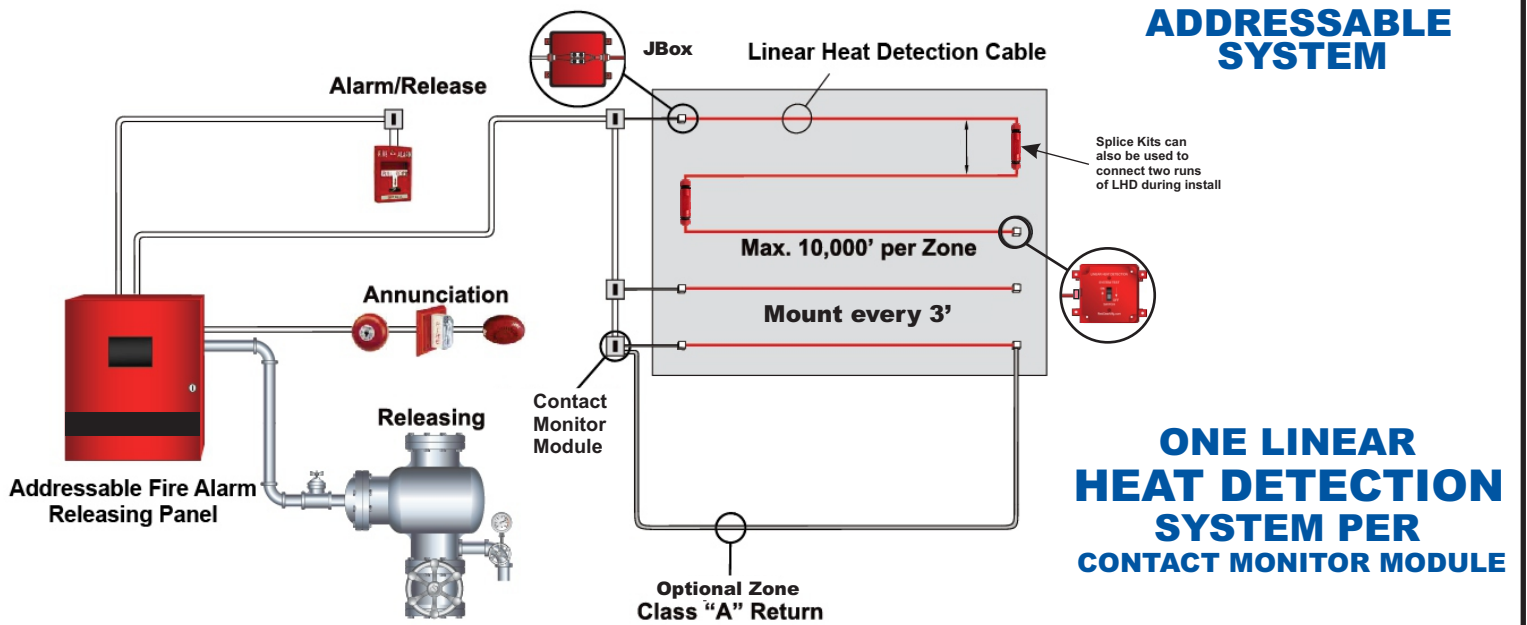
### TYPICAL SYSTEM EXAMPLE



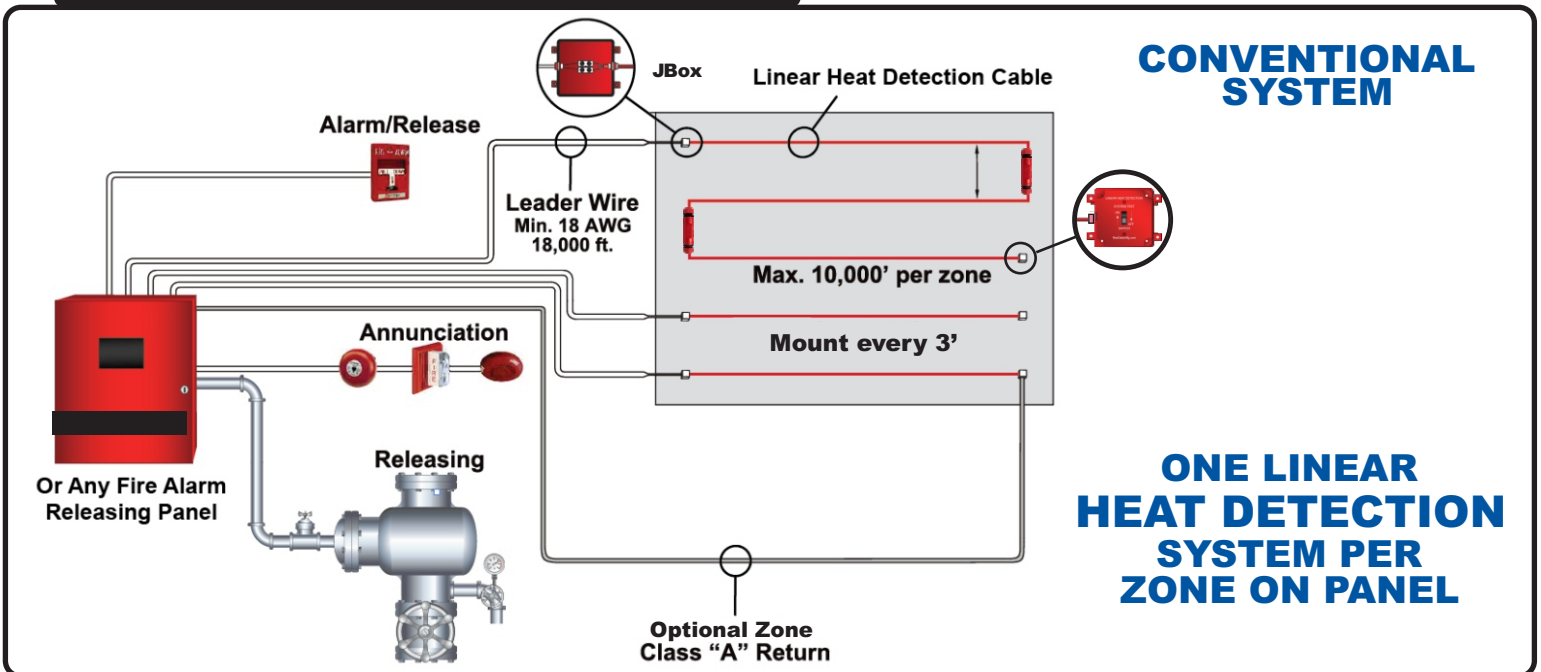
For More Information on Linear Heat Detection Systems Visit:  
[www.safefiredetection.com](http://www.safefiredetection.com)

or  
Call 704-821-7920

## ADDRESSABLE SYSTEM EXAMPLE



## CONVENTIONAL SYSTEM EXAMPLE



# APPLICATION EXAMPLES

## FLOATING ROOF TOP TANKS

**To Determine Cable Amount:**  
 $2\pi r$   
 $2 \times 3.14 \times r = C$   
*r=Radius C=Circumference*  
*Ex. ( 2 x 3.14 x 40 =252ft of cable )*

**RedGear® JBox**  
Part #: RG5222

## RACK STORAGE

Sprinkler Pipe

LHD Cable

FLUE

OR

Mount Every 3' (1m)

Double Loop Cable Tie

Attach to sprinkler pipe mounting attaching cable every 2' (1m).

## GENERATORS

Universal Surface Mount with built in Cable Tie  
**Fire Resistant**

Can be mounted with screw or adhesive.

Mount every 3'(1m) and at every change with direction

Surface Adhesive

\*3ft(1m) Spacing

## CONVEYORS

**RedGear®**  
Guidewire/Messenger Wire Support Supplies

There are four areas you could use linear heat detection to protect a conveyor from different fire scenarios

- Protection from material fire
- Optional protection for overhead bearings and rollers
- LHD Cable run when material floor under conveyor
- Return Belt

LHD Cable run when solid floor under conveyor

Spill or Gated Floor

Mount 3' (1m)

Hood near conveyor collects heat to decrease response time

18" maximum between LHD Cable and load height

Tightens from Both Ends

15' (4.6m) Mounting when using Customer's Messenger Wire

New easy to use Tensioner, tighten with a 20ft and socket.

Linear Heat Detection Zone

Splice, End of Line or J-Box

J-Box or Test Switch

## TUNNELS

Zone 3

Equipment Room

J-Box

Zone 1

LHD Cable

Up to 10,000 ft. per Zone

Zone 1

Leader Wire

Fire Alarm Control Panel

Control Room

**CABLE CLIP TIE**

EyeBolt with Guide Wire every 15'(5m)  
OR  
Cable Clip Ties every 3'(1m).

**RedGear®**  
Cable Clip Tie  
One Piece Cable Clip, All in one Design.  
**Fire Resistant**

## CABLE TRAYS

**RedGear®**  
Cable Tray Clip  
One Piece with built-in Cable Tie  
**Fire Resistant**

Peak

Valley

6'(1.8m) Maximum

Cable Tray Clip

Cable Tray Length divided by Width Coefficient = Total Length of LHD Cable

Determine the number of clips you need by dividing the length of the cable tray by 3, then add 1.

Cable Tray Width	Width Coefficient
1'6" (5m)	.87
2' (6m)	.78
3' (9m)	.65
4' (1.2m)	.57

Sine Wave Calculation for Cable Tray to determine amount of cable required



Don't See Your Application Listed?  
 Visit: [www.safefiredetection.com](http://www.safefiredetection.com)

or

Call 704-821-7920

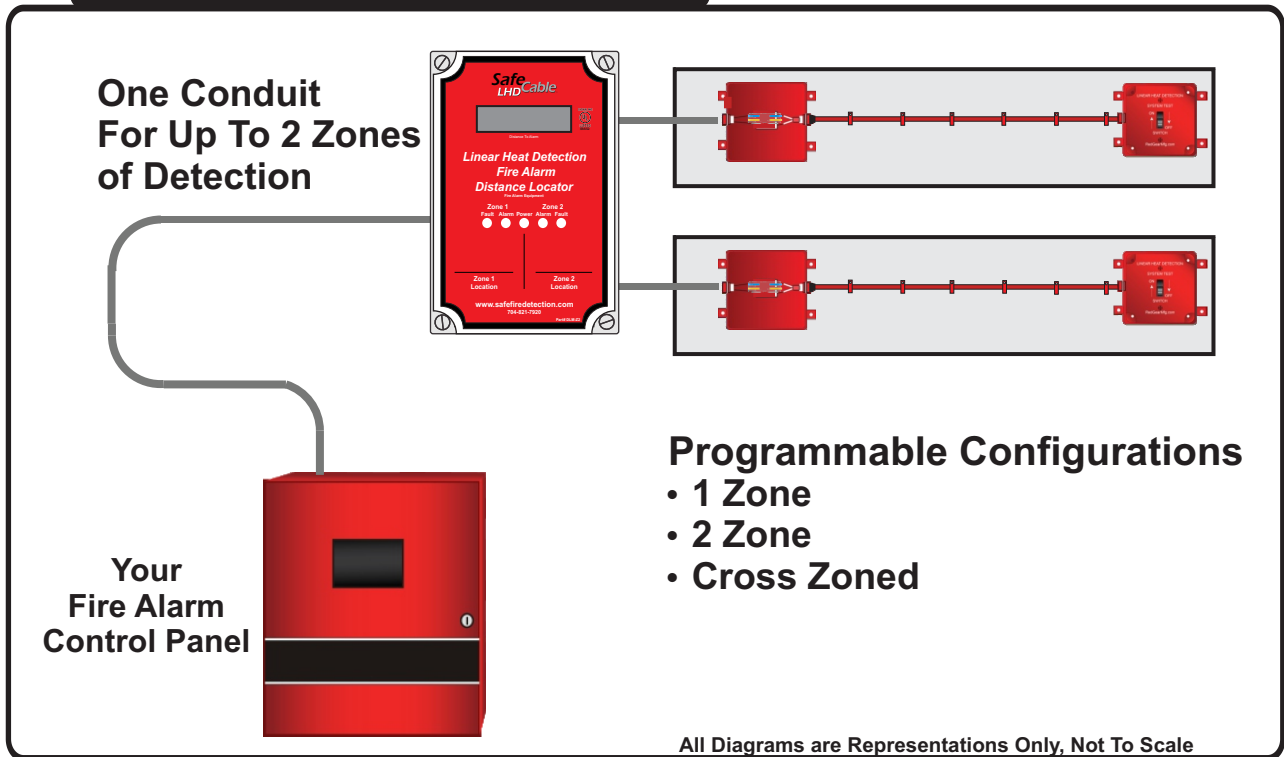
To See How We Can Help Protect Your Project

# DISTANCE LOCATOR

Find The Location of Your Fire Event  
Can Be Used as a One Zone, Two Zone  
Or Cross-Zoned Systems



## DLM-Z2 Example



## DLM-Z2 DISTANCE LOCATOR

Dimensions (W x H x D):	H7.1in x W4.72in x D2.38in (H180mm x W120mm x D60.5mm)
Weight:	1 lb. (0.45kg)
Operating Temperature:	-4°F – +122°F (-20°C – +50°C)
Power Requirements:	Normal Operation: 8mA @ 24VDC Alarm Point Locating: 28mA @24VDC
Systems:	Addressable or Conventional
Enclosure:	NEMA 4x
Max. LHD length:	10,000 ft. (3,000m) per Run

## DLM-Z2 DISTANCE LOCATOR

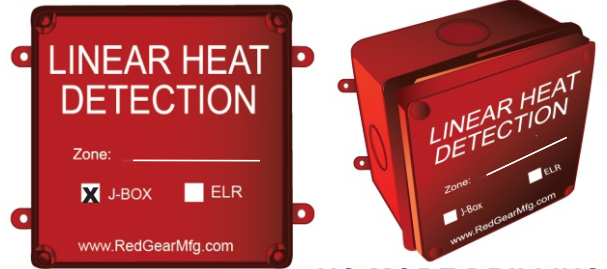


**RedGear Distance Locator**  
Part #: DLM-Z2

# J-BOXES

No more Hole Saws Needed

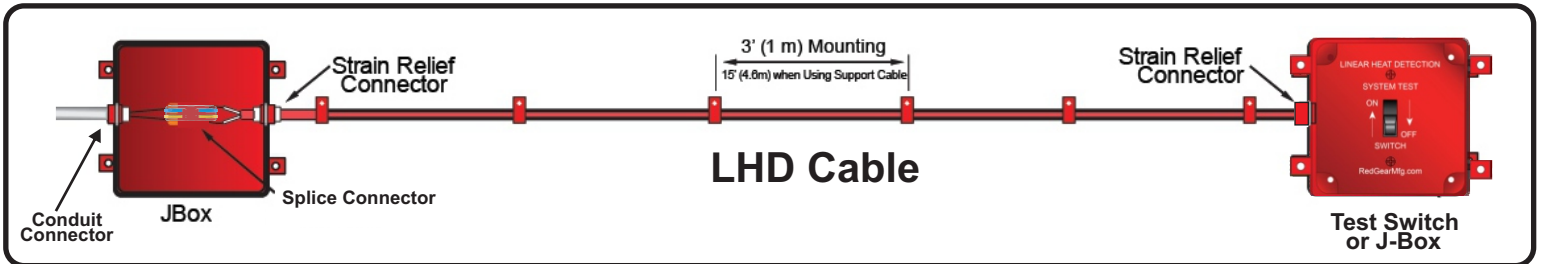
## Text Imprinted Covers



**NO MORE DRILLING**

NOTE: Text on product is not White

Spaces on cover to mark if the box is the J-Box or end of line



**EASY TO USE:**

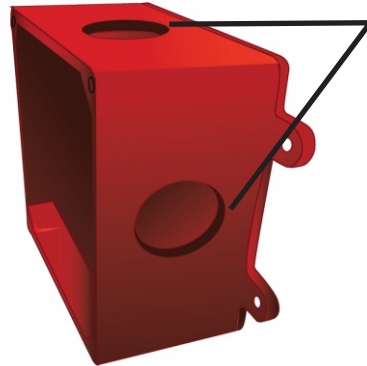
**NO MORE HOLE SAWS**



NOTE: Text on product is not White

**NEW EZ KNOCKOUTS**

**NO HOLE SAWS REQUIRED**



**NEMA 4 (IP66)  
NEMA 6P (IP68)  
NEMA 4X (IP67)**

### ACCESSORIES

### J-BOX/EOL Box

**RedGear®**



**Strain Relief Connectors**

Nylon Part #: RG1110



**Strain Relief Connectors**

Zinc Part#: RS7030



**Splice Connector**

For Cable splices and connections in J/ELR-Boxes and HDJ/ELR-Boxes.  
Connector Part #: RG1136

**RedGear® J-Box Part #: RG5222  
FIRE RESISTANT & EZ KNOCKOUTS**

Dim.: 4" x 4" x 2" (10cm x 10cm x 5cm)  
Easy to use J-Box requires Screw Terminal or in line connectors and Strain Relief Connectors for installation. Has 1/2" and 3/4" knockouts. Use at the beginning and end of line of LHD systems.



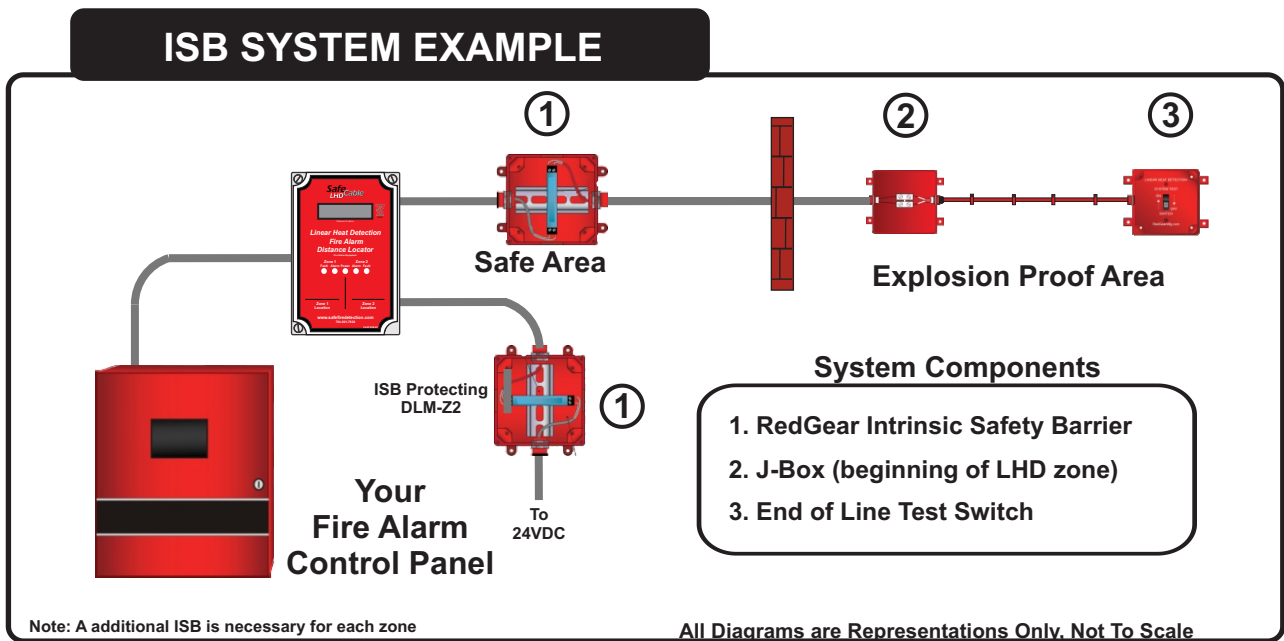
**RedGear® J-Box  
Part #: RG5222**



# INTRINSIC SAFETY BARRIERS

## ISB MODULE

*Intrinsic Safety Barriers for Explosive and Hazardous Areas*



### PRE-ASSEMBLED INTRINSIC SAFETY BARRIER

**CONVENTIONAL**



**RedGear**  
Conventional  
Intrinsic Safety  
Barrier  
Part #: RG5224

**ADDRESSABLE**



**RedGear**  
Addressable  
Intrinsic Safety  
Barrier  
Part #: RG5225

**DISTANCE LOCATING\***



**RedGear**  
Distance Locating  
Intrinsic Safety  
Barrier  
Part #: RG5227

### REPLACEMENT SAFETY BARRIERS

**ADDRESSABLE**



**Intrinsic**  
Safety Barrier  
Part #: RS7124

**CONVENTIONAL**



**Intrinsic**  
Safety Barrier  
Part #: RS7122

**DISTANCE LOCATING**



**Intrinsic**  
Safety Barrier  
Part #: RG5227P01

**Note:** Intrinsic Safety Barriers are non-restorable. Once activated the Barrier will need to be replaced

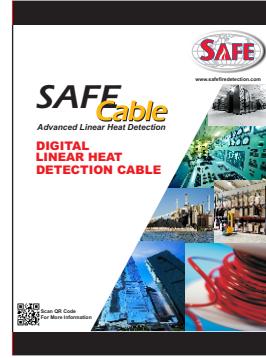
\*replaces Conventional or Addressable ISBs when Using Distance Locating

ALSO AVAILABLE FROM SAFE

# LINEAR HEAT DETECTION CABLE

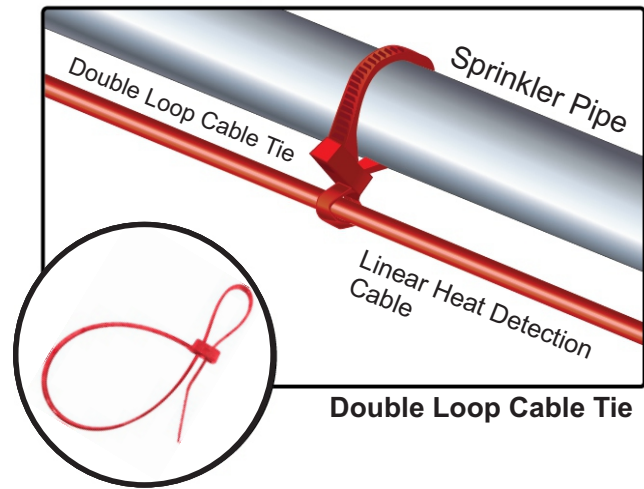
For Information on SafeCable LHD, a Catalog, Training, Project Assistance, Technical Support, or becoming a SafeCable Distributor visit

[www.safefiredetection.com](http://www.safefiredetection.com)



## CABLE TIES

New **RED** nylon 6.6 fire resistant cable ties; multiple sizes for use with pre-action sprinkler systems and other applications



Double Loop Cable Tie

### UNIVERSAL SMALL SINGLE LOOP TIE

**RedGear®** Small Single Loop Cable Ties  
Length: 5in.  
Part #: RG1114C 100/pk



Part #: RG1114M 1000/pk

### DOUBLE LOOP CABLE TIES

**RedGear®** Pre-Action Double Loop Cable Ties  
Part #: RG1112C 100/pk

*Fits Sprinkler Pipe Size*  
**3/4" - 2"**

Part #: RG1112M 1000/pk



### UNIVERSAL LARGE SINGLE LOOP TIE

Standard Extra Large Single Loop Cable Ties  
Length: 22in.  
Part #: RS7064L 50/pk



Note: RS7064L is black in color

### DOUBLE LOOP CABLE TIES

**RedGear®** Pre-Action Double Loop Cable Ties  
Part #: RG1113C 100/pk

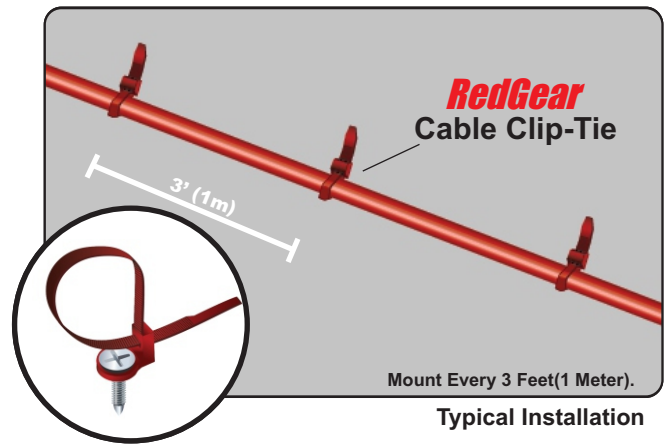
*Fits Sprinkler Pipe Size*  
**2 1/2" - 3 1/2"**

Part #: RG1113M 1000/pk



# UNIVERSAL CABLE CLIP-TIE AND BEAM CLAMPS

*For use in all applications*



## 1 Piece Cable Clip-Tie

**LESS  
LABOR  
TIME  
AND  
COST**



## 2 IN 1 CABLE CLIP-TIE

### RedGear Cable Clip-Tie

**Fire Resistant** Nylon 6.6  
Rated from -100°F to 392°F (-73°C to 200°C). 3/16"  
(4.8mm) mounting hole. Used for most ceiling or wall  
mount applications.

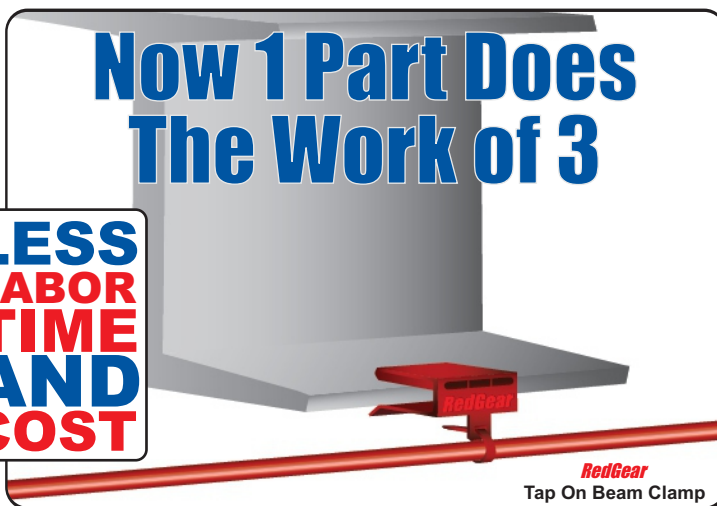
Part #: RG1116C 100/pk

Part #: RG1116M 1000/pk



## Now 1 Part Does The Work of 3

**LESS  
LABOR  
TIME  
AND  
COST**



## NEW 3 IN 1 BEAM CLAMP

**RedGear**<sup>®</sup>  
MADE IN AMERICA



### RedGear Beam Clamp (with Built-in Cable Tie)

**Fire Resistant** Nylon 6.6  
Combines a beam clamp and cable tie all in one for easy use. Rated from  
-100°F to 392°F (-73°C to 200°C).

**Fits Beam Size:**  
1/4", 5/16", 3/8"

Part #: RG1117L 50/pk

Part #: RG1117C 100/pk

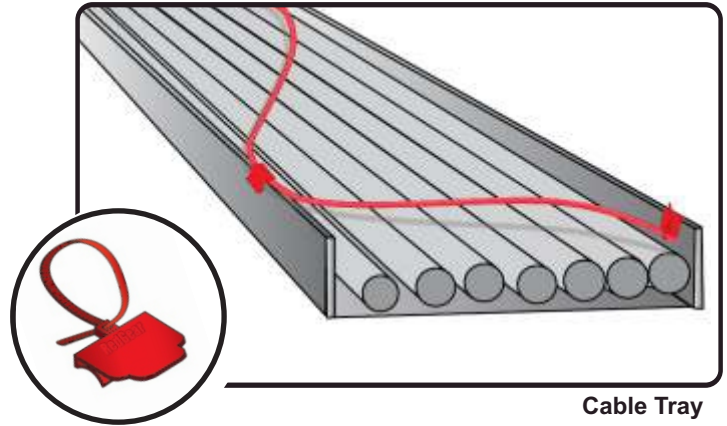
**Fits Beam Size:**  
7/16", 1/2"

Part #: RG1118L 50/pk

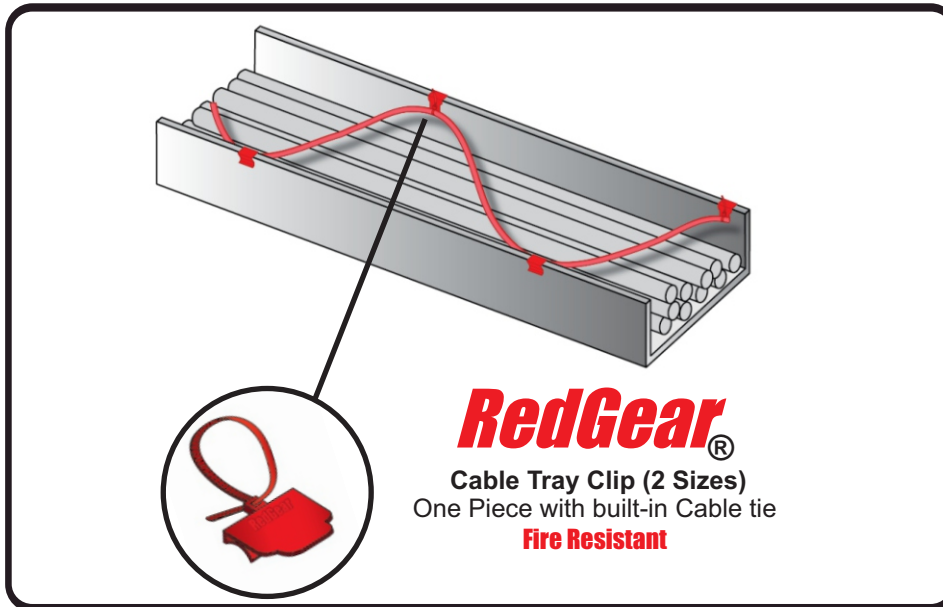
Part #: RG1118C 100/pk

# CABLE TRAY CLIPS

New all in one clip does the job of what used to take three parts



Cable Tray

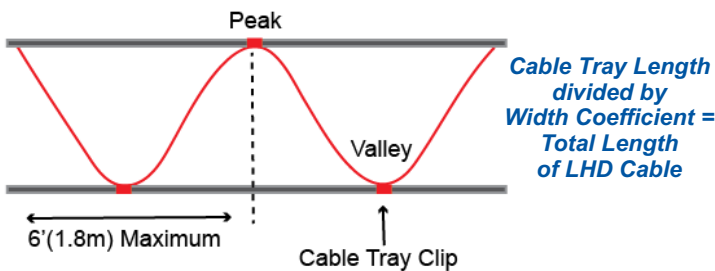


**RedGear®**

Cable Tray Clip (2 Sizes)  
One Piece with built-in Cable tie  
**Fire Resistant**

Cable Tray Clip

## CABLE TRAY CLIP SPACING

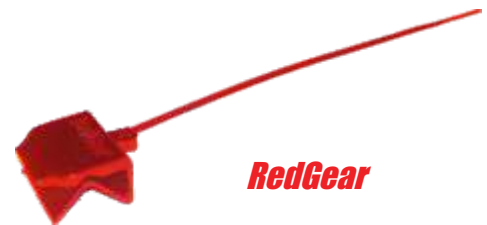


Determine the number of clips you need by dividing the length of the cable tray by 3, then add 1.

Cable Tray Width	Width Coefficient
1'6" (.5m)	.87
2' (.6m)	.78
3' (.9m)	.65
4' (1.2m)	.57

Sine Wave Calculation for Cable Tray to determine amount of cable required

## CABLE TRAY CLIP



**RedGear Cable Tray Clip**

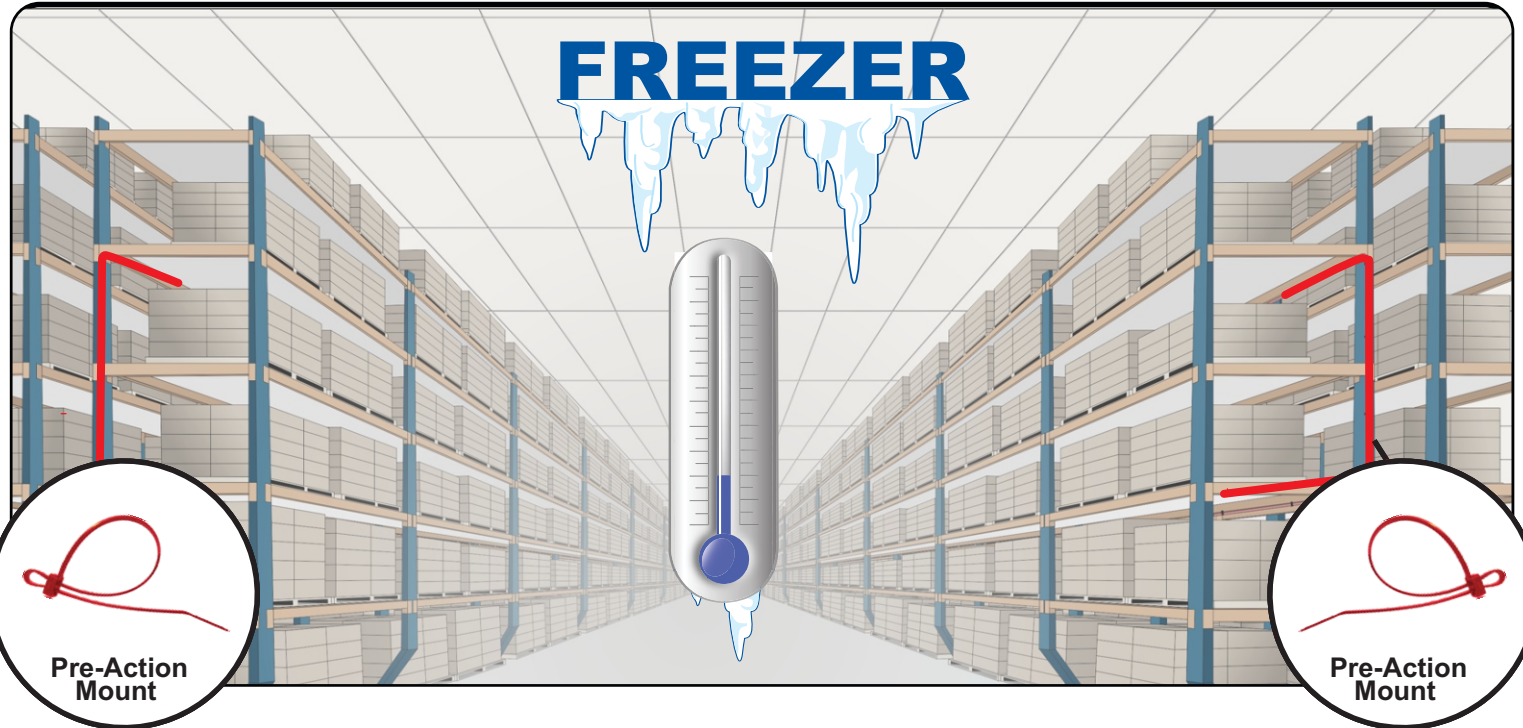
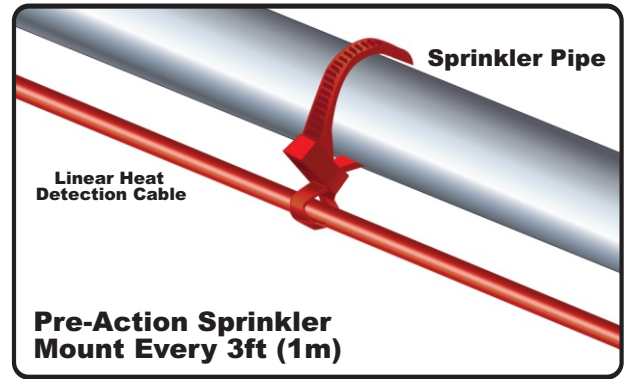
**Fire Resistant** Nylon 6.6  
Used in cable trays to mount LHD cable. Rated from -100°F to 392°F (-73°C to 200°C).

Cable Tray  
Fits Tray Size: 1/16" - 1/4" (1.6 - 4mm)  
Part #: RG1120C 100/pk

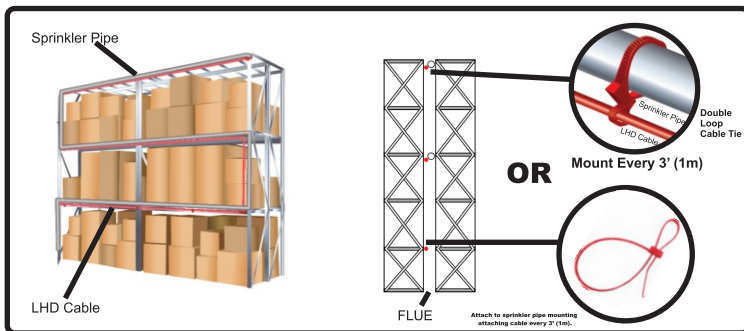
Part #: RG1120M 1000/pk

# FREEZER MOUNTS

New Double Loop Cable Ties  
Developed For Pre-Action  
Sprinkler Pipe



## FREEZER RACK PROTECTION



## FREEZER PREACTION MOUNTS



Fits Pipe Sizes  
3/4" - 2"

**RedGear Pre Action  
Double Loop Cable Ties**

**Fire Resistant** Nylon 6.6  
Fits 3/4"-2" (2cm-5cm) Pipe.  
Very durable, highly reliable cable ties,  
use to mount LHD cable on Pre-Action  
Sprinkler Systems  
For cold and warm environments. Rated  
from -100°F to 392°F(-73°C to 200°C).  
Length: 11 7/8" (30.16cm)

**Part #: RG1112C 100/pk**



Fits Pipe Sizes  
2 1/2" - 3 1/2"

**RedGear Pre Action  
Double Loop Cable Ties**

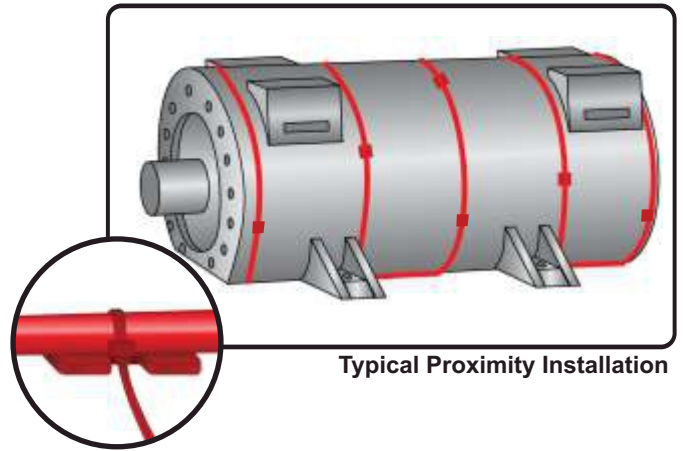
**Fire Resistant** Nylon 6.6  
Fits 2 1/2" - 3 1/2" (6cm - 8.9cm) Pipe  
Very durable, highly reliable cable ties use  
for cable ties, to mount LHD cable on Pre-  
Action Sprinkler Systems. For cold and  
warm environments. Rated from -100°F to  
392°F(-73°C to 200°C).  
Length: 14 7/8" (37.78 cm)

**Part #: RG1113C 100/pk**

**Part #: RG1112M 1000/pk Part #: RG1113M 1000/pk**

# UNIVERSAL MOUNT

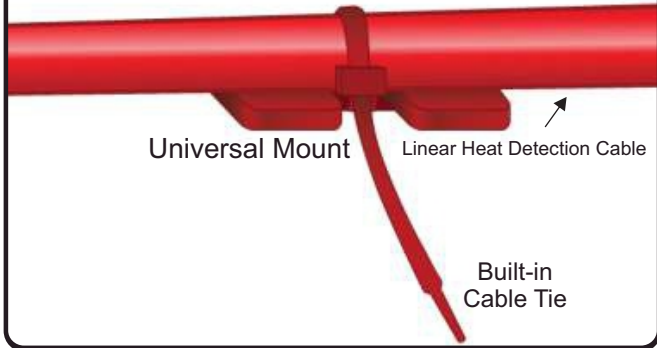
Surface, ceiling, racks, cabinets, walls, for use in all applications almost anywhere



Typical Proximity Installation

## NEW DESIGN

### SURFACE MOUNT & CABLE TIE IN ONE

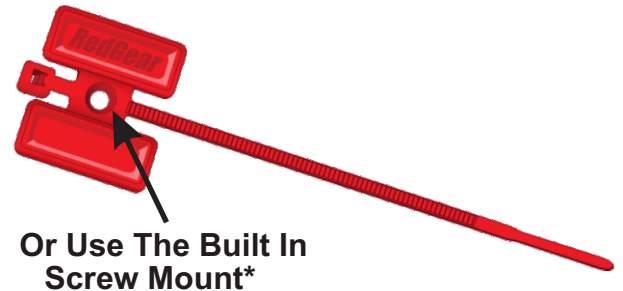


## TWO PARTS IN ONE

### FIRE RESISTANT

One Size Fits All LHD Cables

Simply Apply Surface Mount Adhesive to Back



## SURFACE MOUNT ADHESIVE or SCREW MOUNT



### Standard Surface Mount Adhesive

For securing Mount to surface. Used with RedGear Surface Mounts to adhere to surface that cannot be drilled into.

Part #: RS7056

## 2 IN 1 SURFACE MOUNT



### RedGear Universal Mount with Cable Tie

#### Fire Resistant

Use with Surface Mount Adhesive or screws and bolts when drilling into mounting surface.

Temperature: Rated from -100°F to 392°F (-73°C to 200°C).

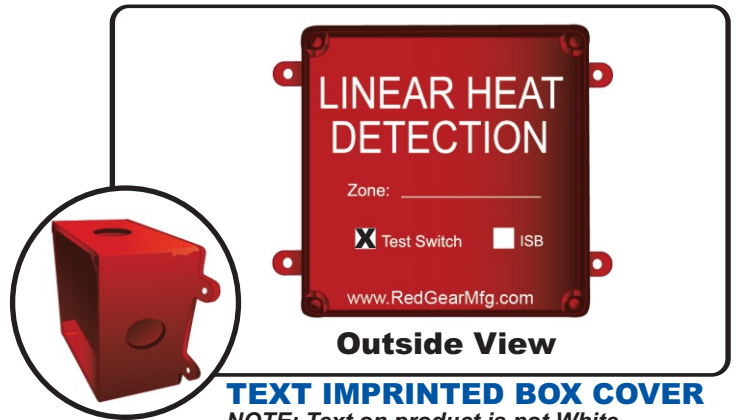
Part #: RG1123C 100/pk

Part #: RG1123M 1000/pk

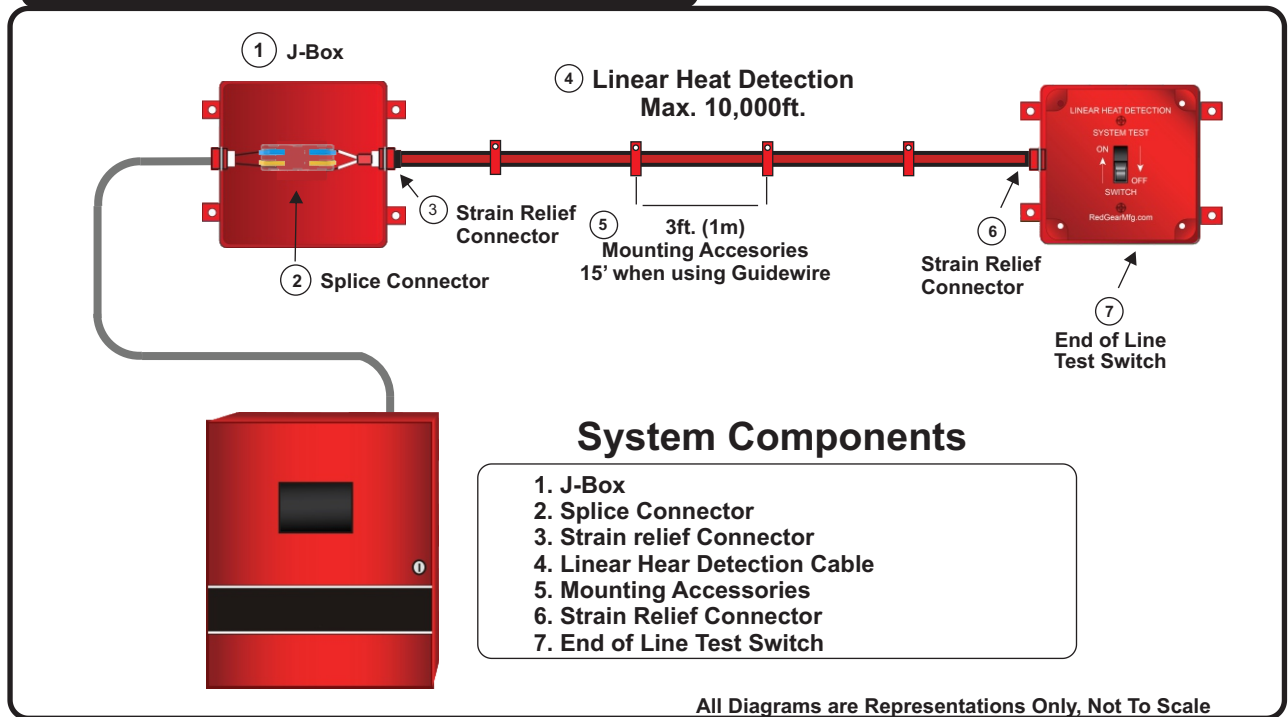
\*Use the type, size, and length screw appropriate for your application

# TEST SWITCH

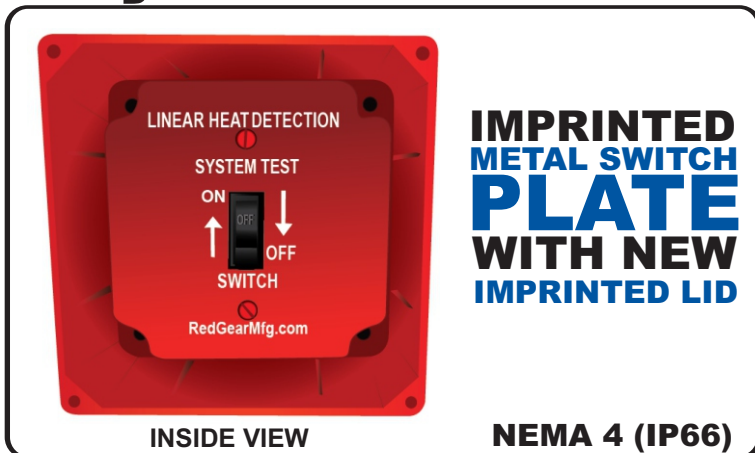
New easy to use test switch, no more complicated hard wired boxes now just flick of a switch



## LHD SYSTEM EXAMPLE



## Easy To Use Test Switch



## END OF LINE TEST SWITCH

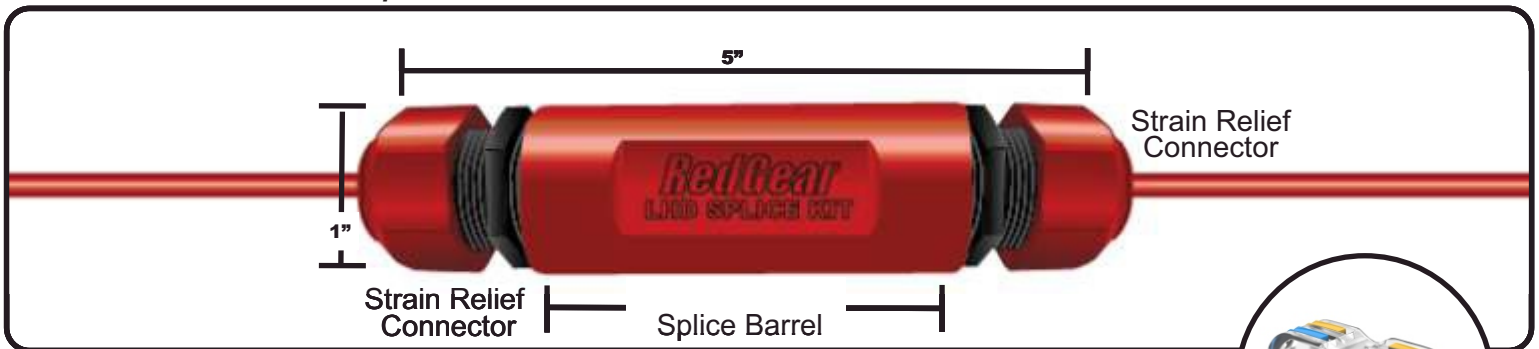
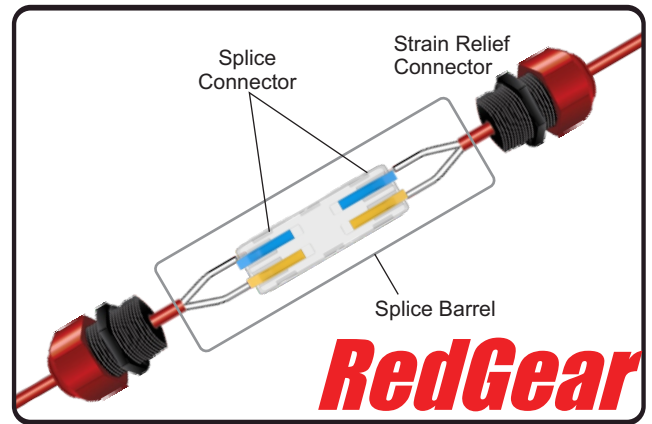


**RedGear HD/ELR-Test Switch**  
**Part #: RG5223**

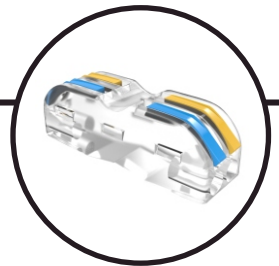
**FIRE RESISTANT & EZ KNOCKOUTS**

# LHD SPLICE KIT

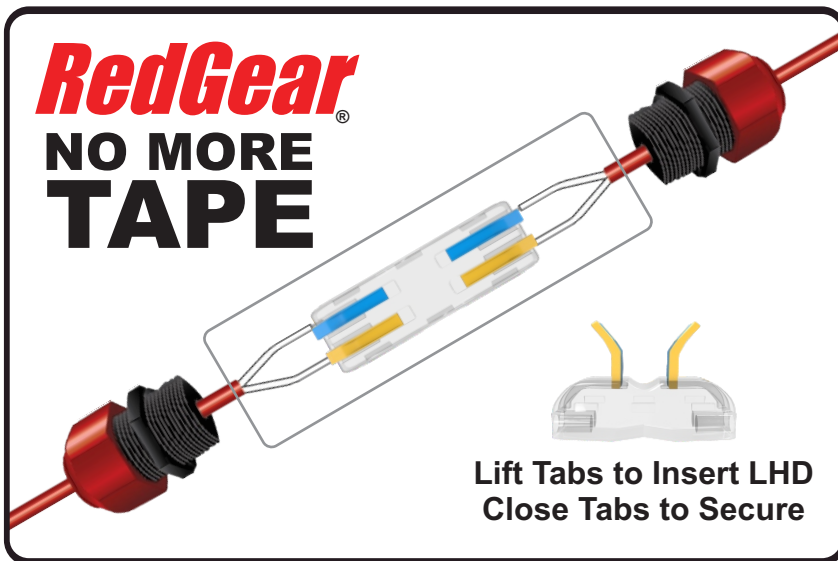
Can Be Used to Join Together Cables  
During Installation, and Repair Broken or  
Alarmed Sections of LHD Cable.  
No Need To Replace the Entire Cable



**NEW WEATHERPROOF SPLICE FOR LHD  
USE WITH QUICK SPLICE IN-LINE CONNECTOR**



**FAST & EASY TO INSTALL  
IN DIFFICULT INSTALLATIONS**



## SPLICE KIT

**RedGear**



### RedGear Splice Kit

**Fire Resistant**

New engineered weatherproof splice kit for LHD cables. Comes with two strain relief connectors, barrel and one SpliceConnector.

Rated from -100°F to 392°F (-73°C to 200°C).

**Part #: RG1126**



### RedGear End of Line Splice Kit

**Fire Resistant**

Weatherproof splice for LHD cables. Comes with one strain relief connectors, barrel and one Quick Splice

Rated from -100°F to 392°F (-73°C to 200°C).

**Part #: RG1129**



## TYPICAL SPLICE EXAMPLE: NEW REDGEAR SPLICE KIT NO MORE TAPE, NO MORE LEAKS

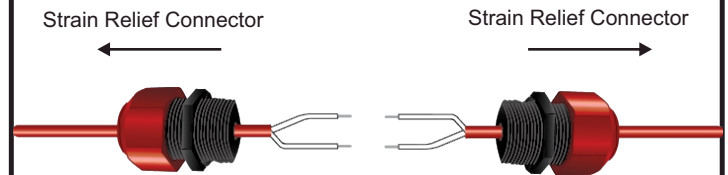


### INSTRUCTIONS

- Strip outer LHD jacket back 1" on one end of LHD to be spliced. Strip the inner conductors back 1/2". Repeat on the other LHD cable to be spliced.



- Slide a Strain Relief connector on the end of each LHD cable. As illustrated.



- Slide the splice barrel onto one of the LHD cable ends.



- Lift the Splice Connector's tabs up, insert one end of the LHD cable into the Splice connector. Close the tabs to secure the cable.



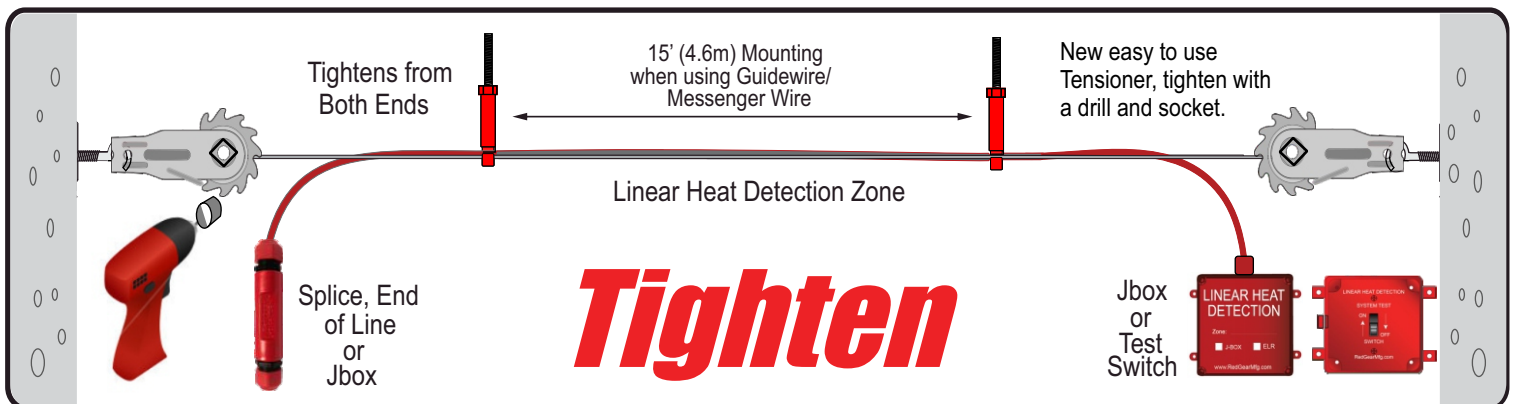
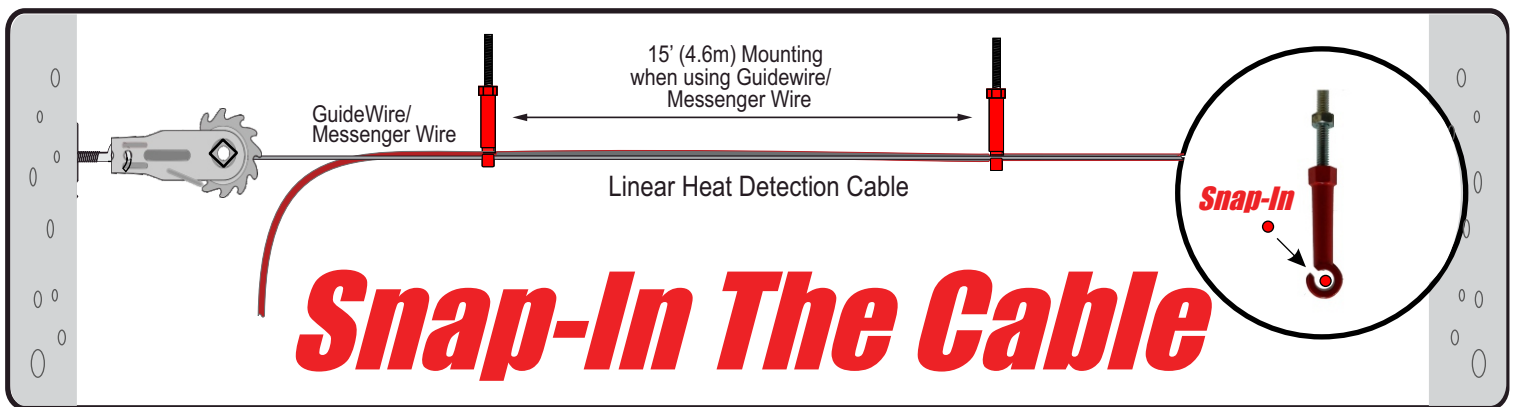
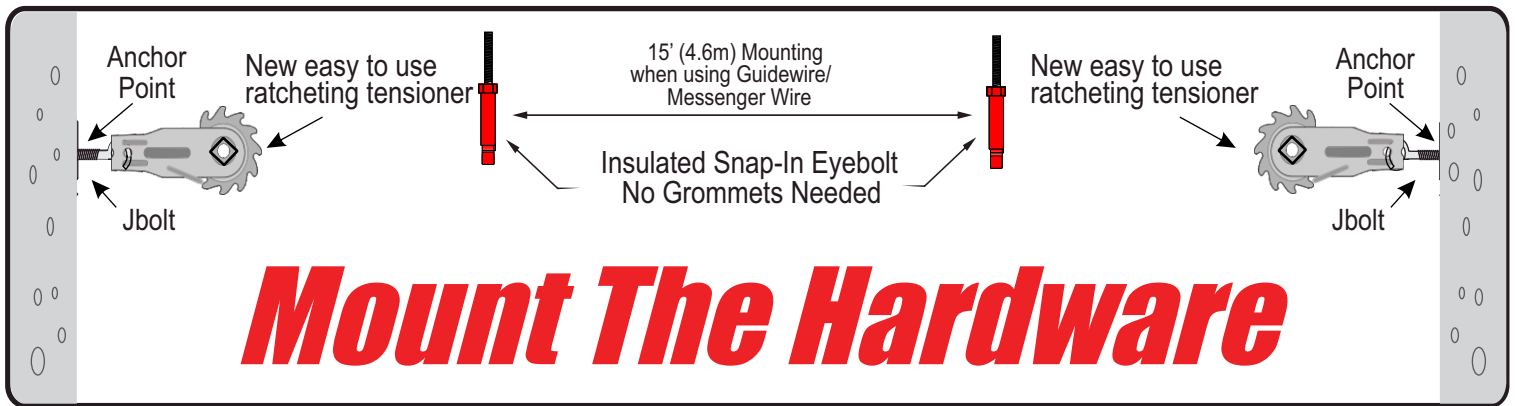
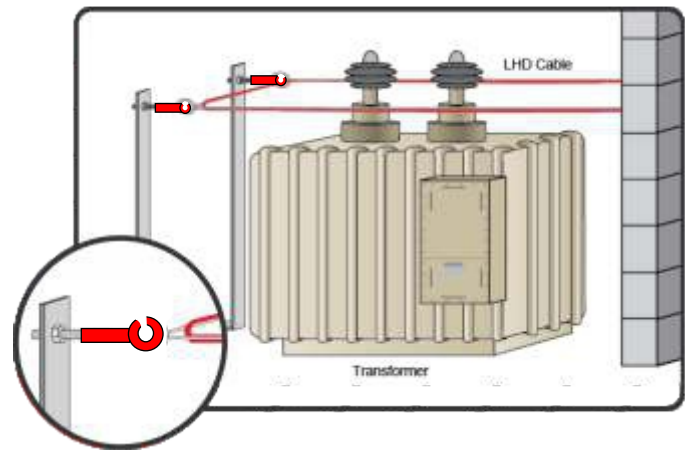
- Repeat Step 4 to attach the other end of LHD cable to the opposite end of the Splice Connector, and complete the connection.



- Slide the barrel over the connector, screw the two strain relief connectors onto the splice barrel, and tighten. You have completed your splice.



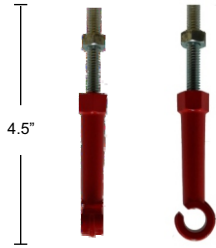
# New GUIDEWIRE MOUNTING SYSTEM



**NO MORE PRE-THREADING EYE BOLTS ON CABLE**

**Easy to use Tensioners • No more grommets or Turnbuckles**

## Snap-In Eyebolts



**Insulated Snap-In Eyebolt**  
**Zinc Plated or Stainless Steel**  
**No Grommets Needed**

For suspending LHD Cable every 15'.  
Includes one 1/4" X 20 (6.4mm) nut. Second nut  
required to lock #RS7066ZC OR #RS7066SC.  
Length: 4.5"

**Part #: RG1130X (ZINC) 10/pk**

**Part #: RG1131 (STAINLESS)**

**Locknut Zinc Plated**  
**or Stainless Steel**

Use as second nut to lock Eyebolts.

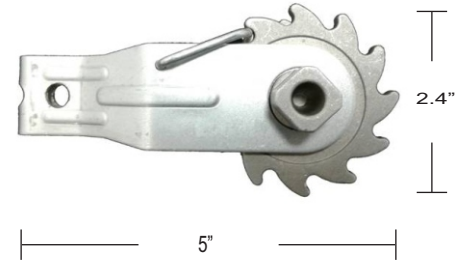
**Part #: RS7066ZC (ZINC) 100/pk**

**Part #: RS7066SC (STAINLESS) 100/pk**

## Snap-In Guidewire System



**MADE IN THE USA**



**Guidewire Tensioner**

New Guidewire/messenger wire tensioner.  
Rated from -100°F to 1000°F (-73°C to 200°C).

**Zinc Part #: RG1132**

**Stainless Steel Part #:RG1133**

**Jbolt Zinc #: RG1134**

**Jbolt Stainless Steel #: RG1135**

**For More Information**



**For More Information on**  
**Guidewire, LHD, or LHD Mounting visit**  
**[www.safefiredetection.com](http://www.safefiredetection.com)**

**or**

**Call 704-821-7920**



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