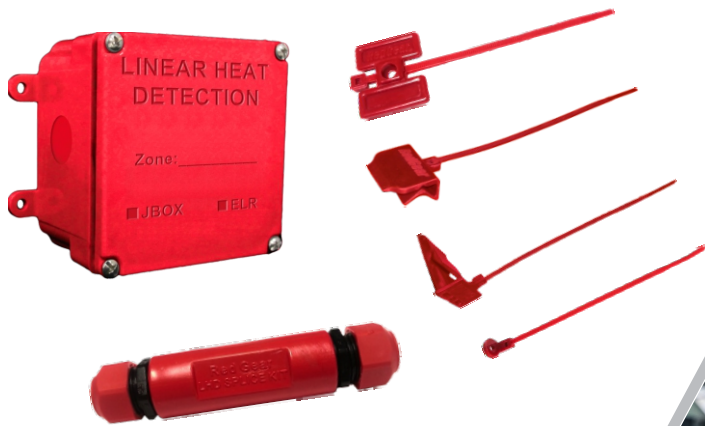


SAEVU

BY SPACE AGE ELECTRONICS

RedGear[®] Custom Installation Supplies **LINEAR HEAT INSTALLATION MATERIALS**



ABOUT US

Traditionally, the fire industry has adapted off the shelf installation materials to install linear heat detection 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.



CUSTOM DESIGNED FOR THE FIRE INDUSTRY

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



MADE IN THE U.S.A

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



MADE IN THE USA

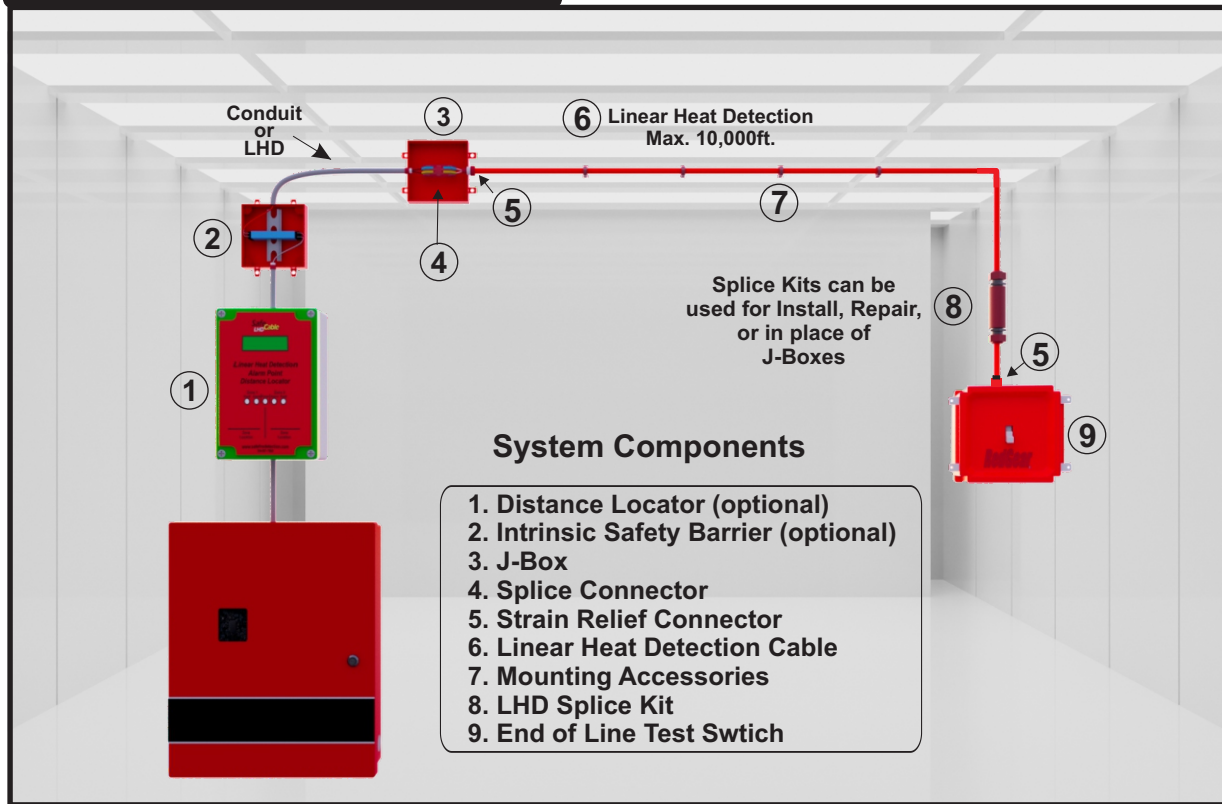
RedGear® ***LHD Supplies***

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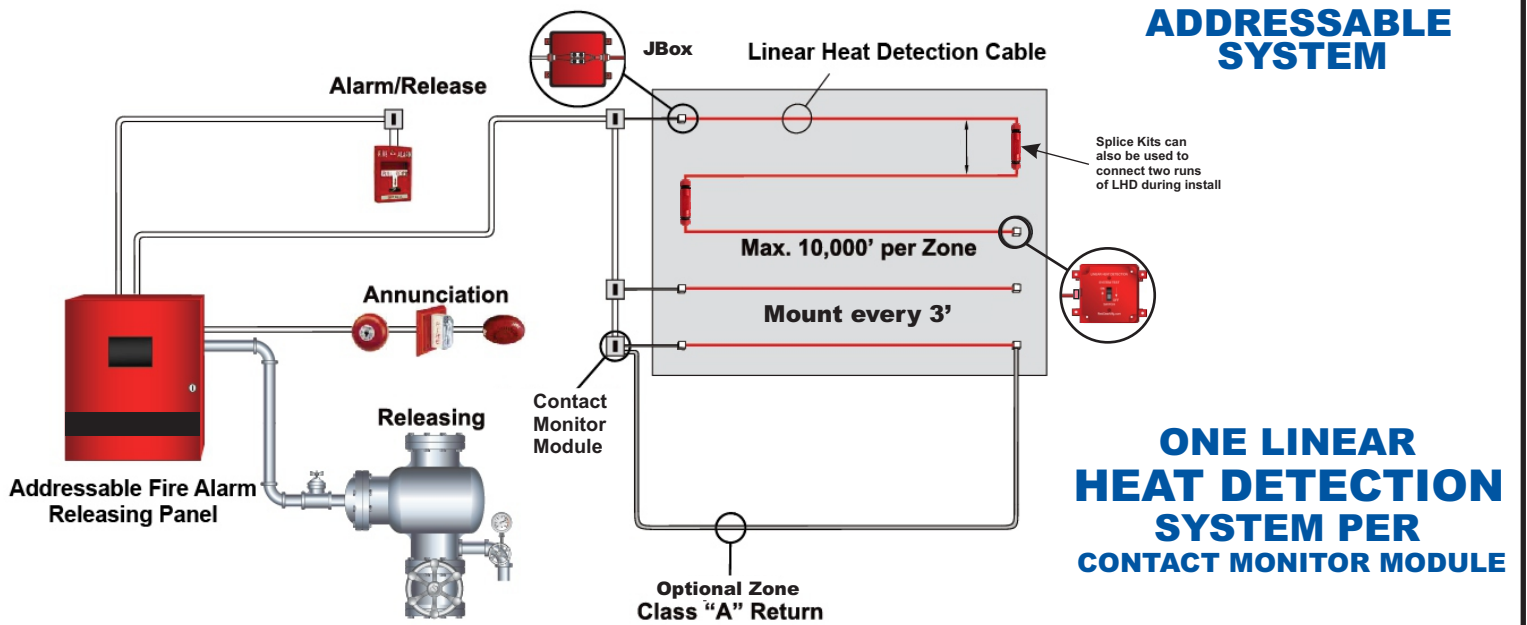
RedGear

Linear Heat Detection System Examples:

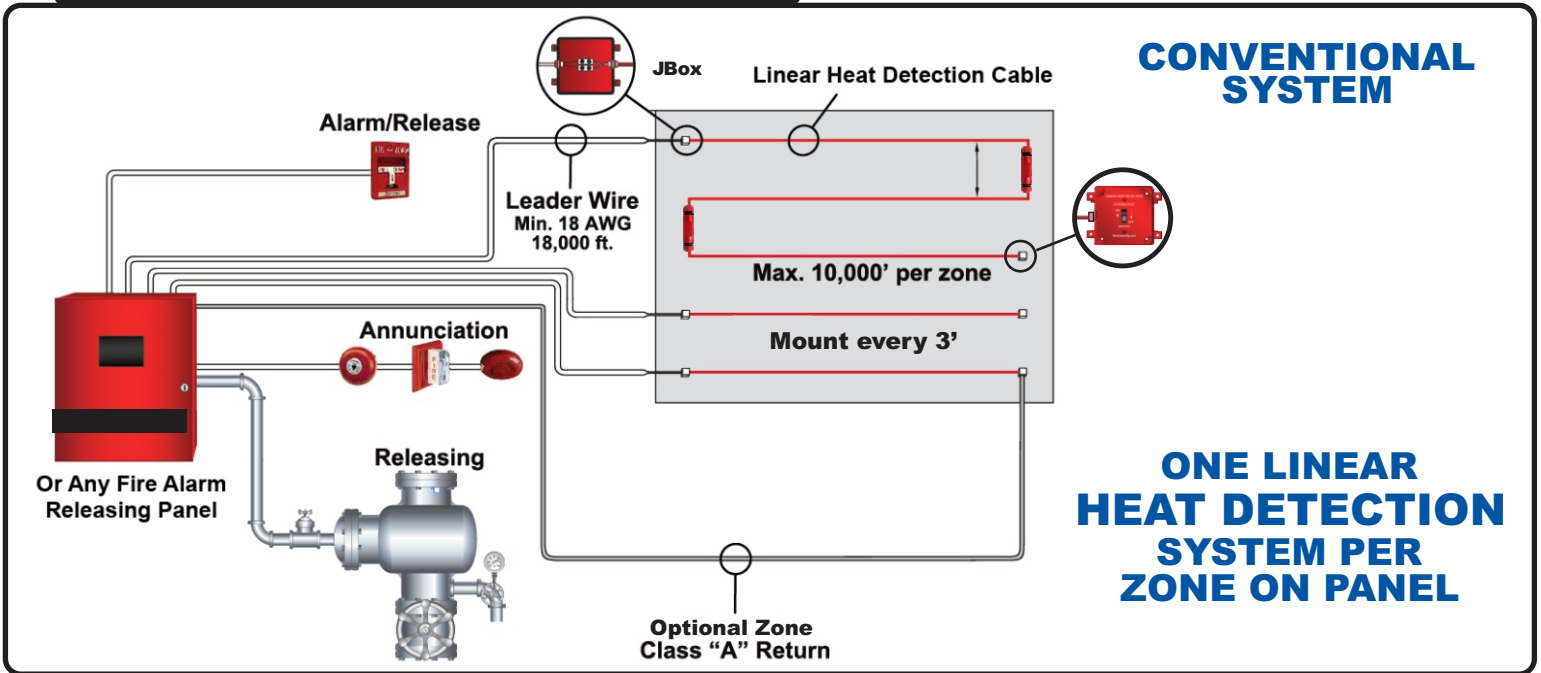
TYPICAL SYSTEM EXAMPLE



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® J-Box

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

- 1 Protection from material fire
- 2 Optional protection for overhead bearings and rollers
- 3 LHD Cable runs when parallel floor under conveyor
- 4 Return Belt

LHD Cable runs 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 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

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

6' (1.8m) Maximum

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

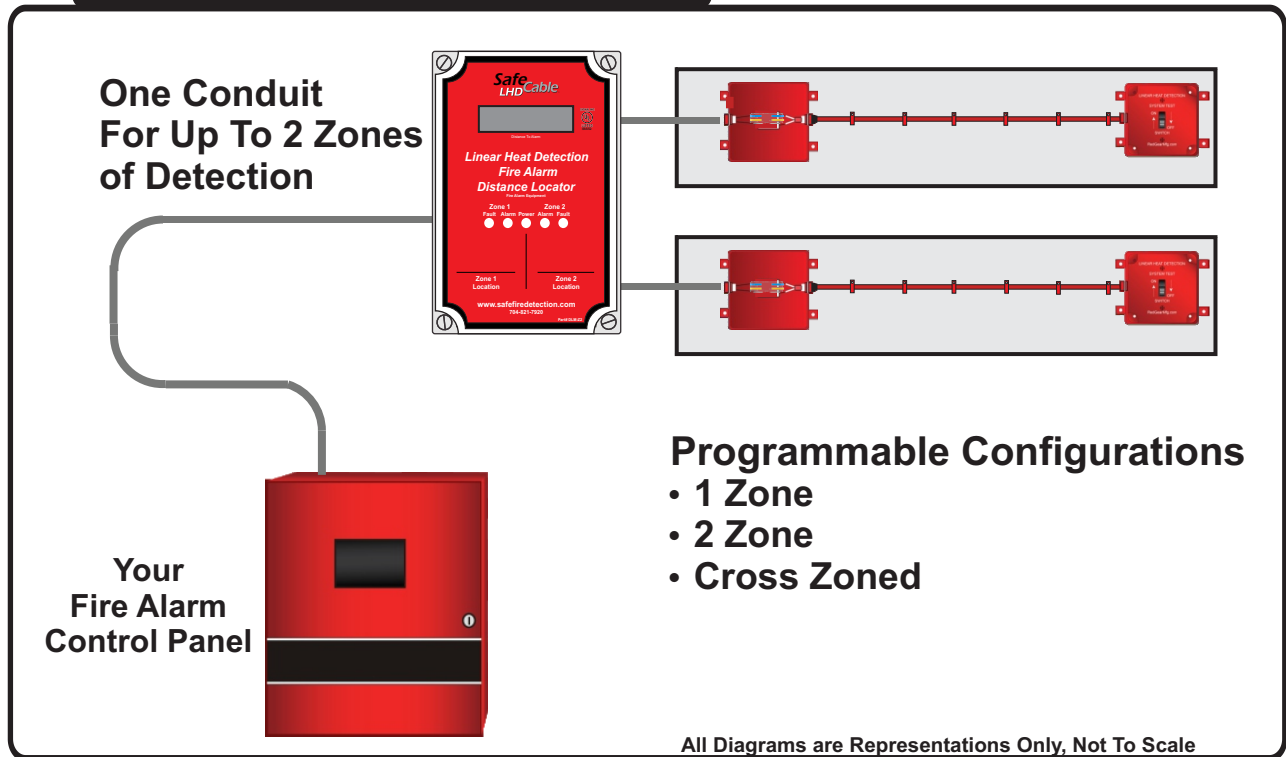
Sine Wave Calculation for Cable Tray to determine amount of cable required

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

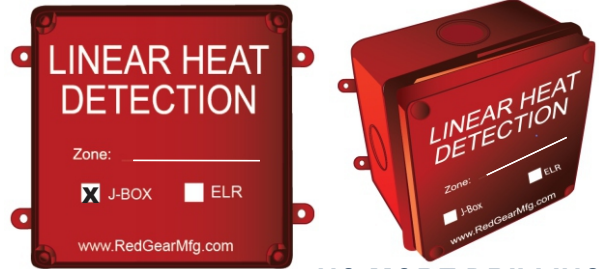
DLM-Z2 DISTANCE LOCATOR



J-BOXES

No more Hole Saws Needed

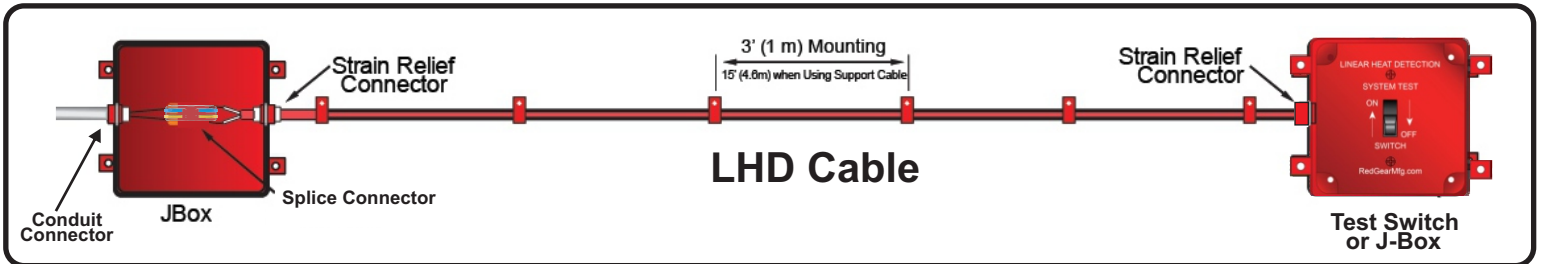
Text Imprinted Covers



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:

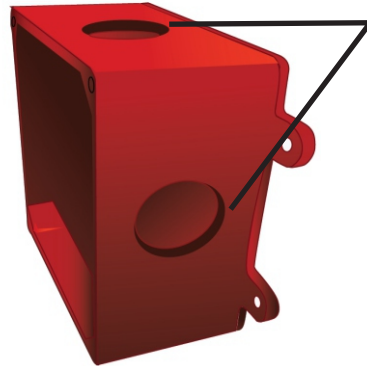
NO MORE HOLE SAWS



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



Strain Relief Connectors



Splice Connector

For Cable splices and connections in J/ELR-Boxes and HDJ/ELR-Boxes.

RedGear® J-Box

FIRE RESISTANT & EZ KNOCKOUTS

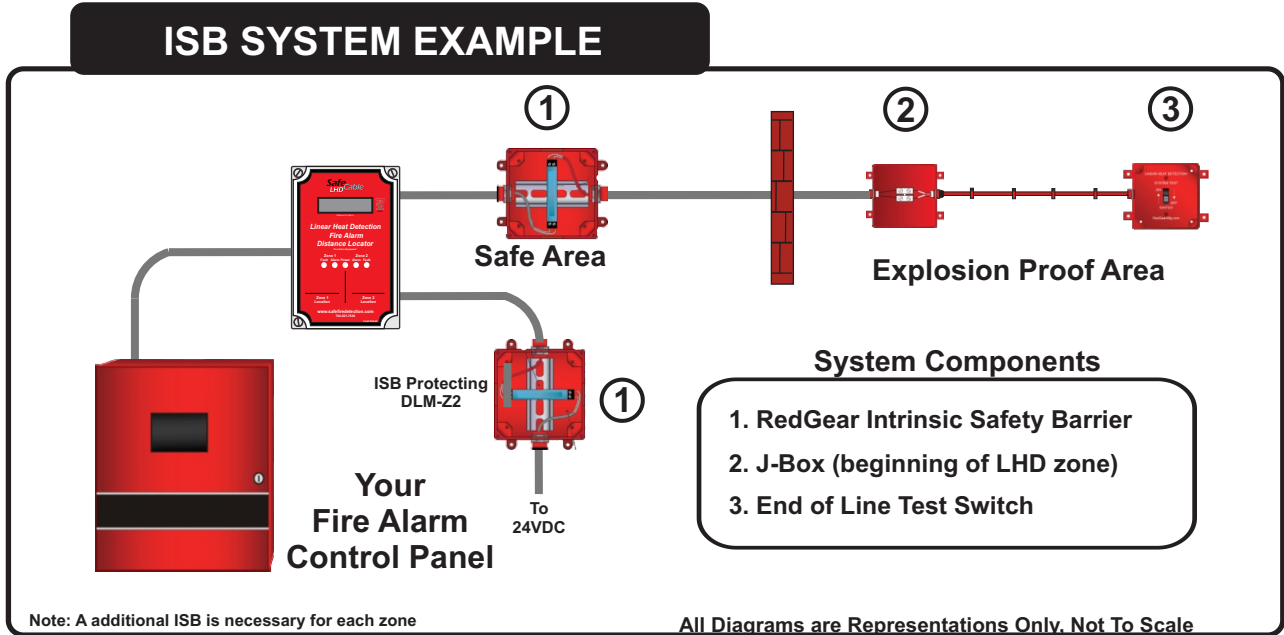
Dim.: 4" x 4" x 2" (10cm x 10cm x 5cm)
Easy to use J-Box requires Screw Terminal or in line connectors and Strain Relief Connectors for installation. Has 1/2" and 3/4" knockouts. Use at the beginning and end of line of LHD systems.



INTRINSIC SAFETY BARRIERS

ISB MODULE

Intrinsic Safety Barriers for Explosive and Hazardous Areas



PRE-ASSEMBLED INTRINSIC SAFETY BARRIER

CONVENTIONAL



RedGear
Conventional
Intrinsic Safety
Barrier

ADDRESSABLE



RedGear
Addressable
Intrinsic Safety
Barrier

DISTANCE LOCATING*



RedGear
Distance Locating
Intrinsic Safety
Barrier

REPLACEMENT SAFETY BARRIERS

ADDRESSABLE



Intrinsic
Safety Barrier

CONVENTIONAL



Intrinsic
Safety Barrier

DISTANCE LOCATING



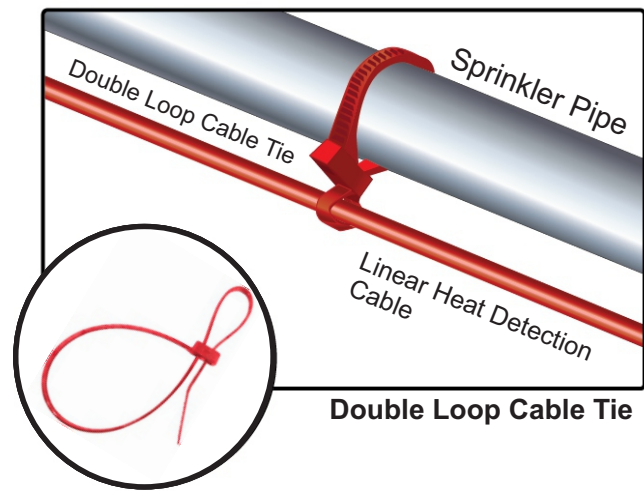
Intrinsic
Safety Barrier

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

CABLE TIES

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



UNIVERSAL SMALL SINGLE LOOP TIE

RedGear® Small Single Loop Cable Ties
Length: 5in.



DOUBLE LOOP CABLE TIES

RedGear® Pre-Action Double Loop Cable Ties

Fits Sprinkler Pipe Size
3/4" - 2"



UNIVERSAL LARGE SINGLE LOOP TIE

Standard Extra Large Single Loop Cable Ties
Length: 22in.



Note: RS7064L is black in color

DOUBLE LOOP CABLE TIES

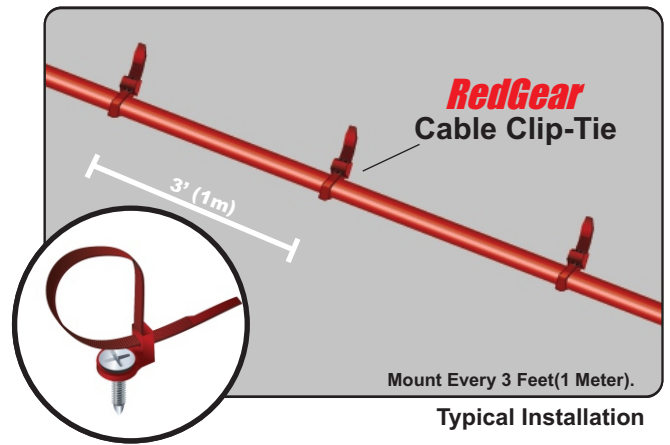
RedGear® Pre-Action Double Loop Cable Ties

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



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

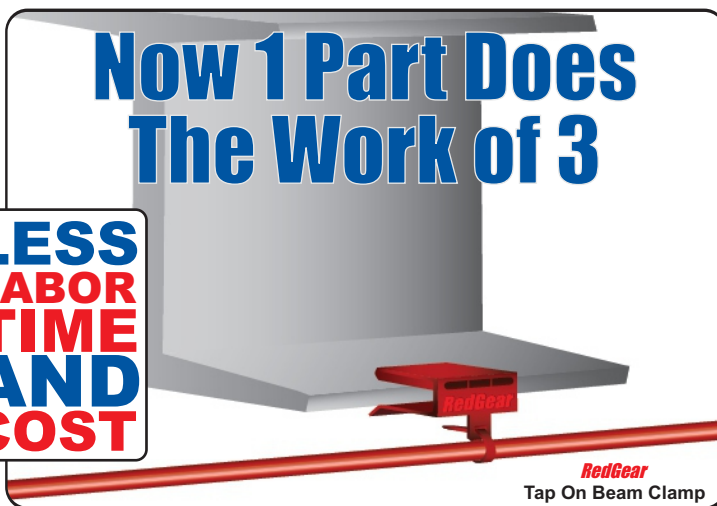
RedGear Cable Clip-Tie

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.



Now 1 Part Does The Work of 3

**LESS
LABOR
TIME
AND
COST**



NEW 3 IN 1 BEAM CLAMP

RedGear[®]
MADE IN AMERICA



RedGear Beam Clamp (with Built-in Cable Tie)

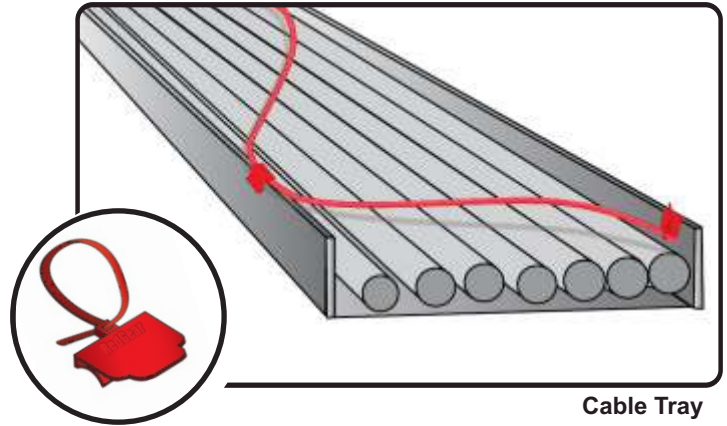
Fire Resistant Nylon 6.6
Combines a beam clamp and cable tie all in one for easy use. Rated from
-100°F to 392°F (-73°C to 200°C).

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

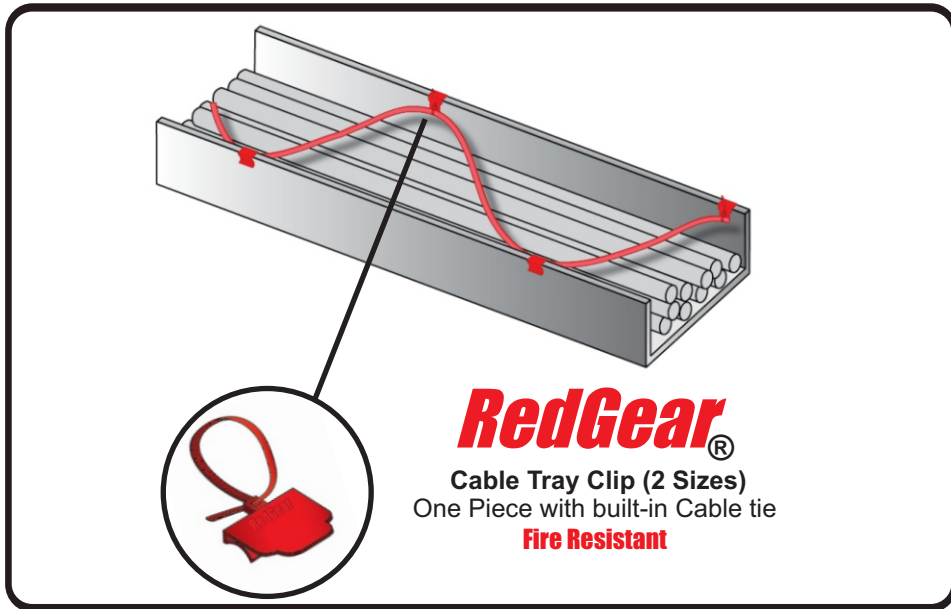
Fits Beam Size:
7/16", 1/2"

CABLE TRAY CLIPS

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



Cable Tray

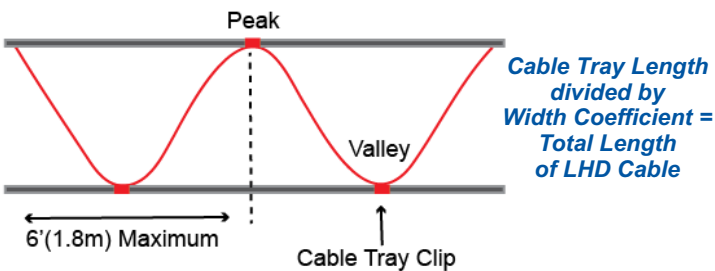


RedGear®

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

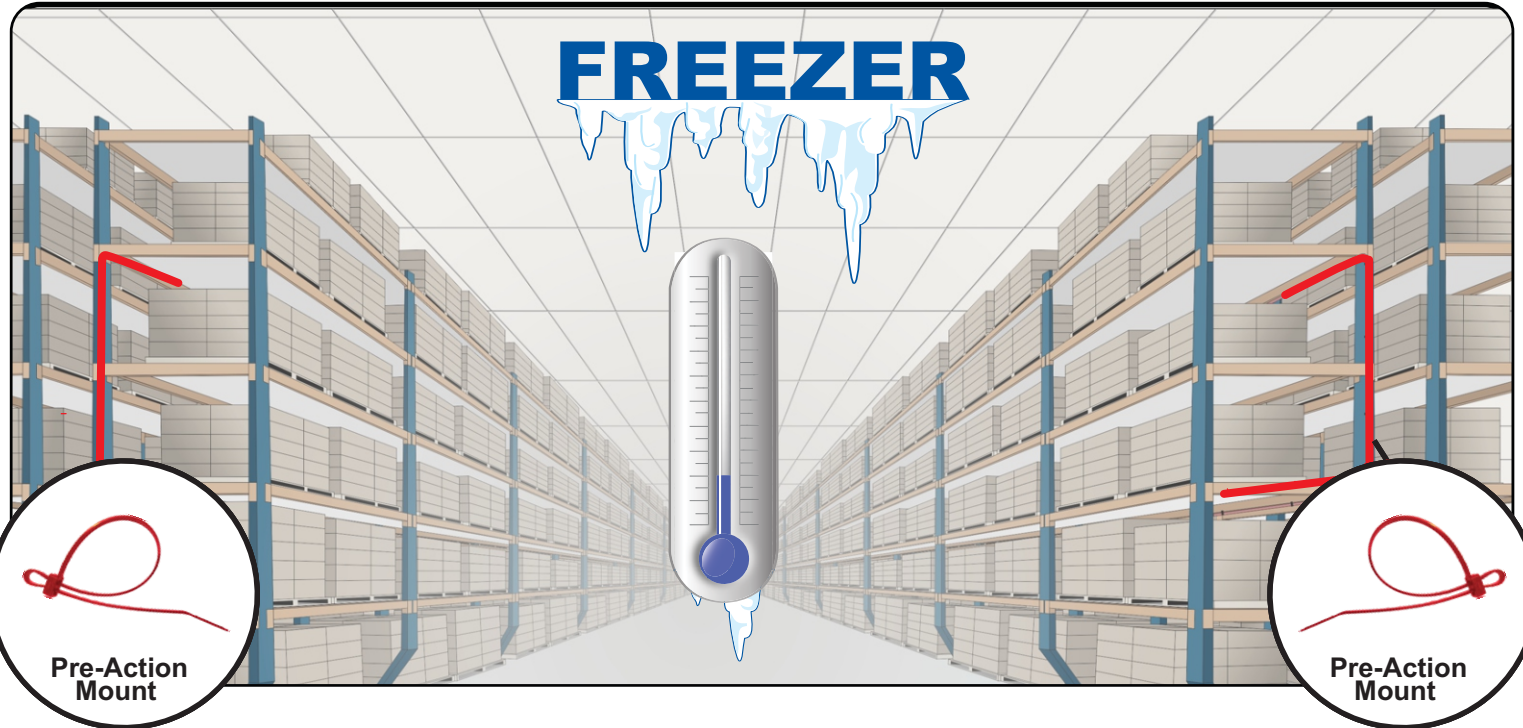
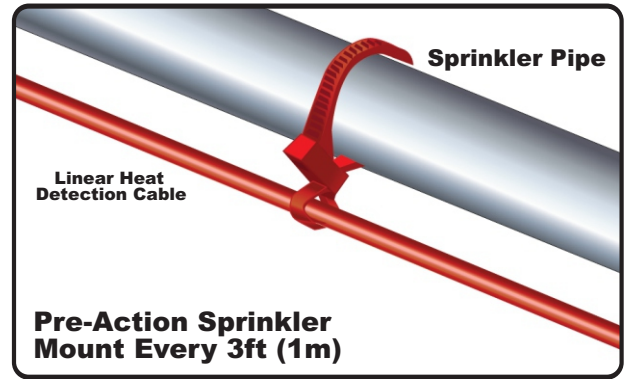
Used in cable trays to mount LHD cable. Rated from -100°F to 392°F (-73°C to 200°C).

Cable Tray

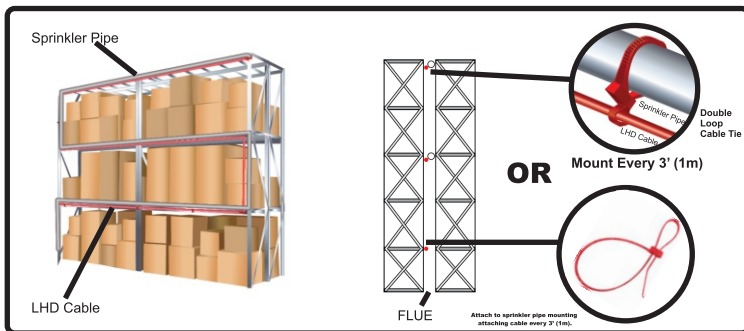
Fits Tray Size: 1/16" - 1/4" (1.6 - 4mm)

FREEZER MOUNTS

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



FREEZER RACK PROTECTION



FREEZER PREACTION MOUNTS



**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)

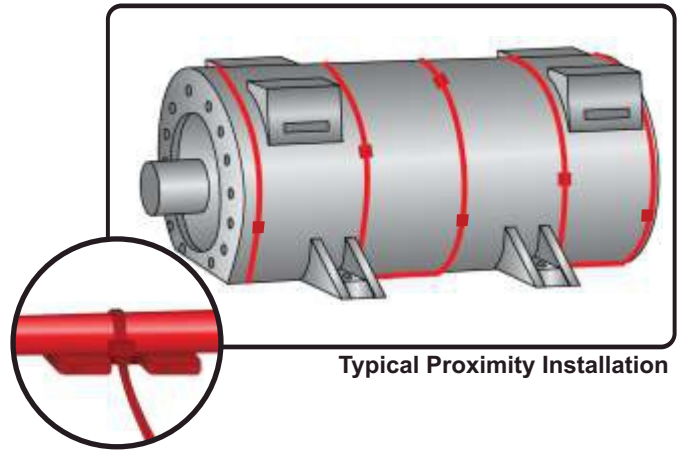


**RedGear Pre Action
Double Loop Cable Ties**

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)

UNIVERSAL MOUNT

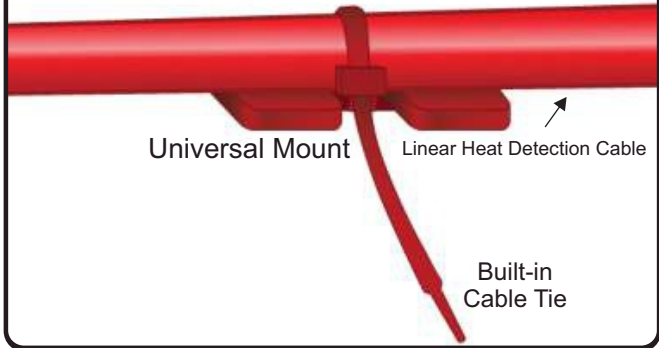
Surface, ceiling, racks, cabinets, walls, for use in all applications almost anywhere



Typical Proximity Installation

NEW DESIGN

SURFACE MOUNT & CABLE TIE IN ONE



Universal Mount

Linear Heat Detection Cable

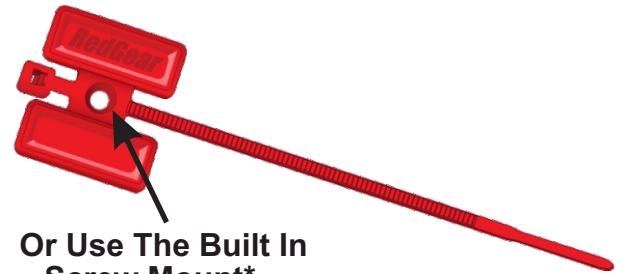
Built-in Cable Tie

TWO PARTS IN ONE

FIRE RESISTANT

One Size Fits All LHD Cables

Simply Apply Surface Mount Adhesive to Back



Or Use The Built In Screw Mount*

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.

2 IN 1 SURFACE MOUNT



RedGear Universal Mount with Cable Tie

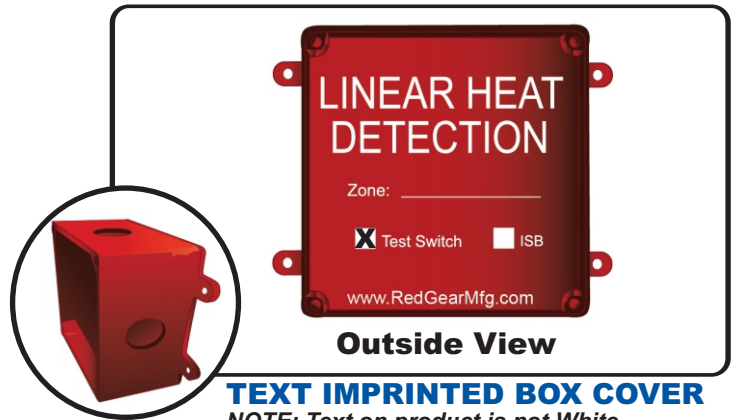
Fire Resistant

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).

*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

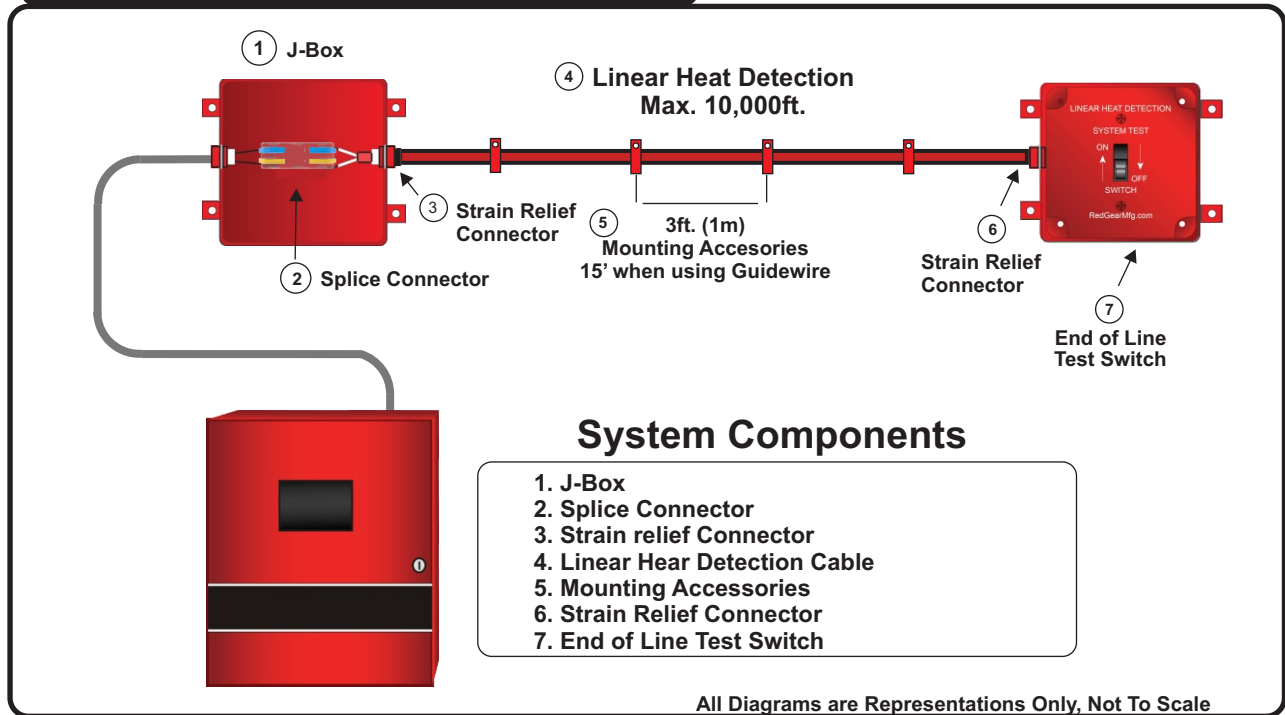


Outside View

TEXT IMPRINTED BOX COVER

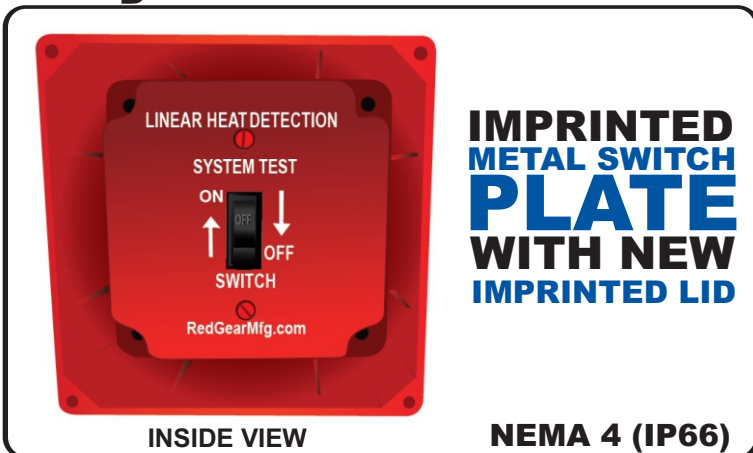
NOTE: Text on product is not White

LHD SYSTEM EXAMPLE



All Diagrams are Representations Only, Not To Scale

Easy To Use Test Switch



END OF LINE TEST SWITCH

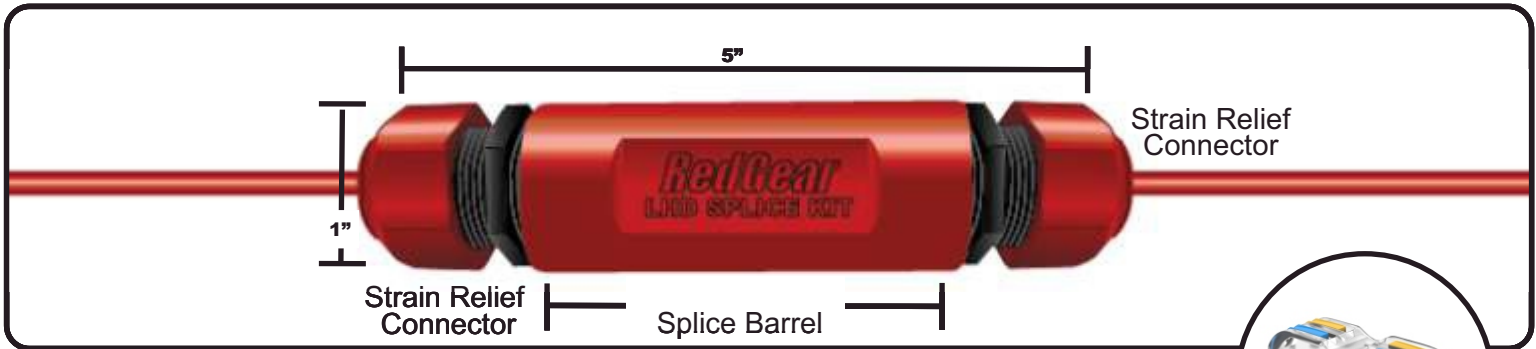
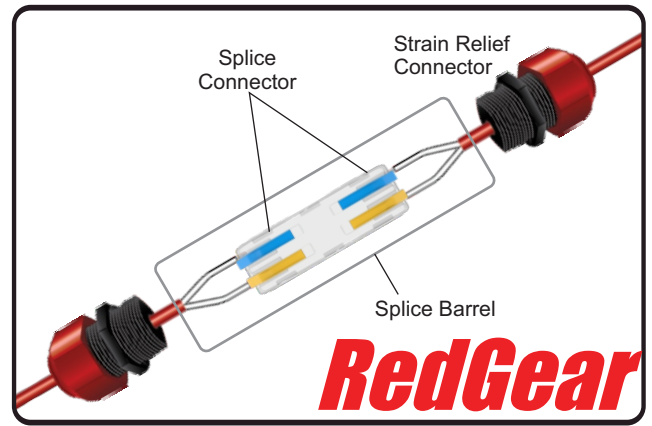


RedGear HD/ELR-Test Switch

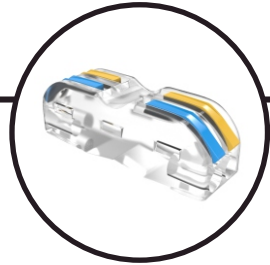
FIRE RESISTANT & EZ KNOCKOUTS

LHD SPLICE KIT

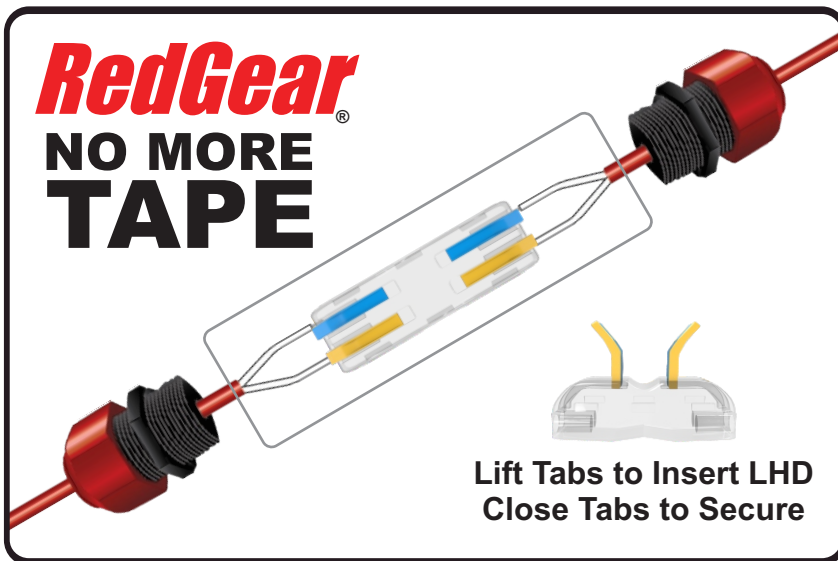
Can Be Used to Join Together Cables During Installation, and Repair Broken or Alarmed Sections of LHD Cable.
No Need To Replace the Entire Cable



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).



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).

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

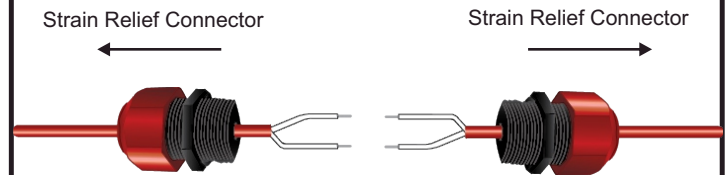


INSTRUCTIONS

- 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.



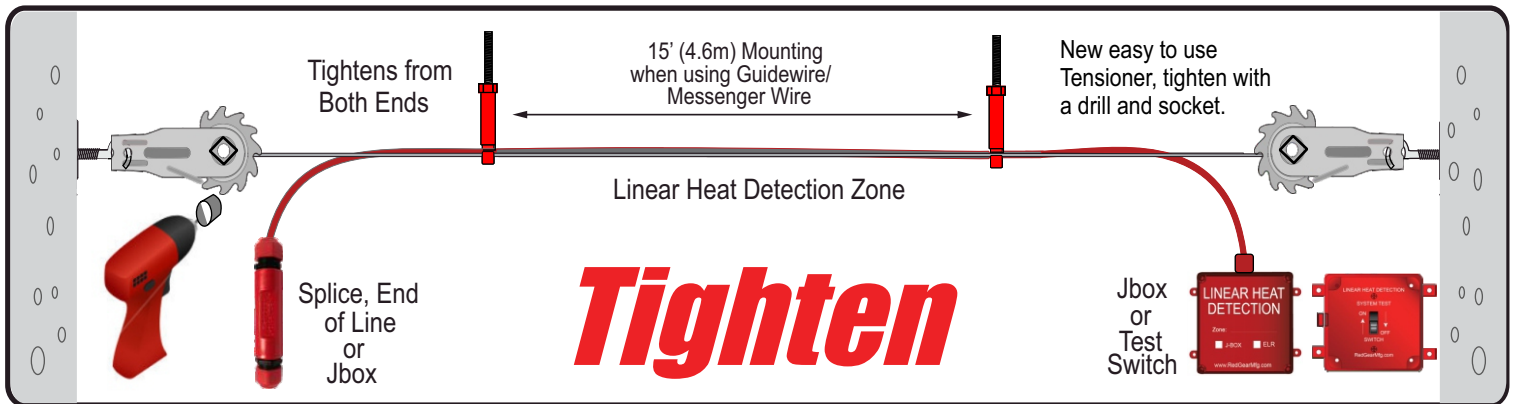
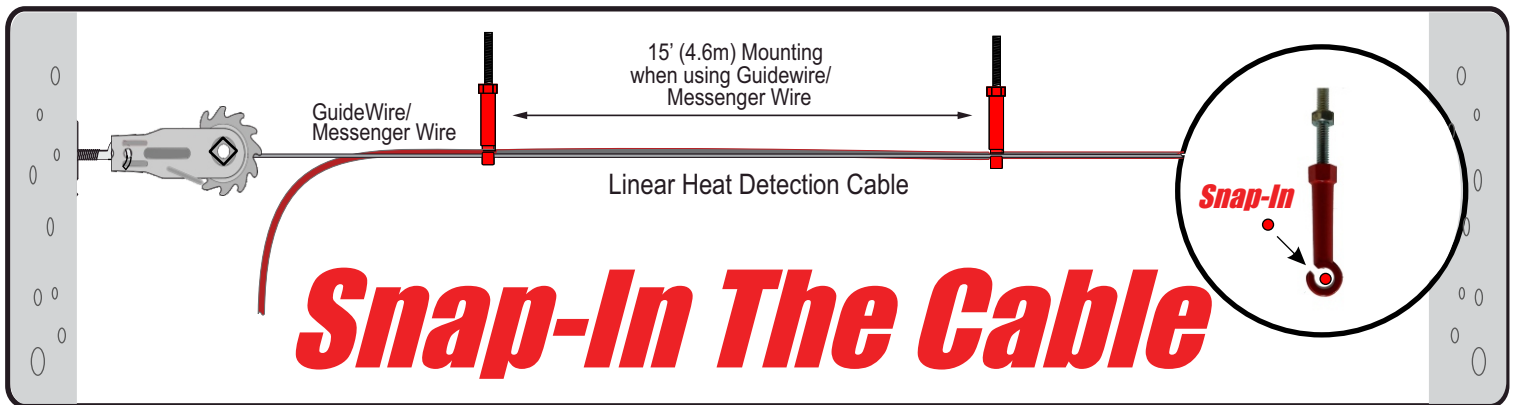
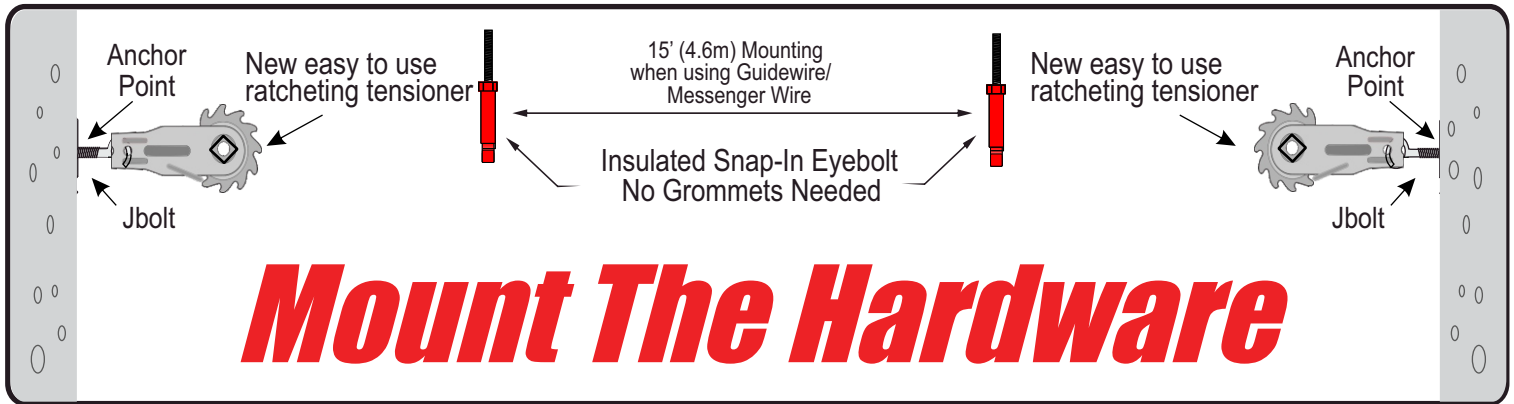
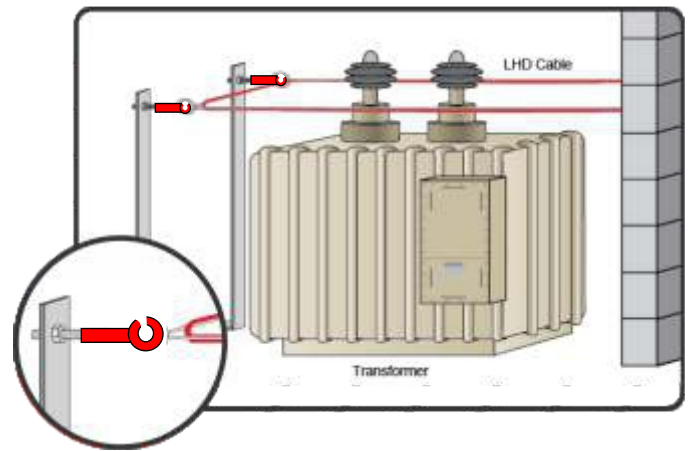
- Repeat Step 4 to attach the other end of LHD cable to the opposite end of the Splice Connector, and complete the connection.



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

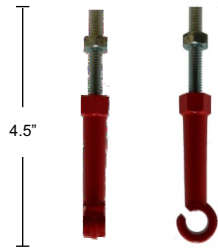


New GUIDEWIRE MOUNTING SYSTEM



NO MORE PRE-THREADING EYE BOLTS ON CABLE
Easy to use Tensioners • No more grommets or Turnbuckles

Snap-In Eyebolts



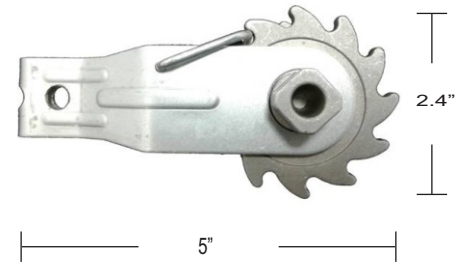
Insulated Snap-In Eyebolt
Zinc Plated or Stainless Steel
No Grommets Needed

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"

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).



1 S A E . C O M



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