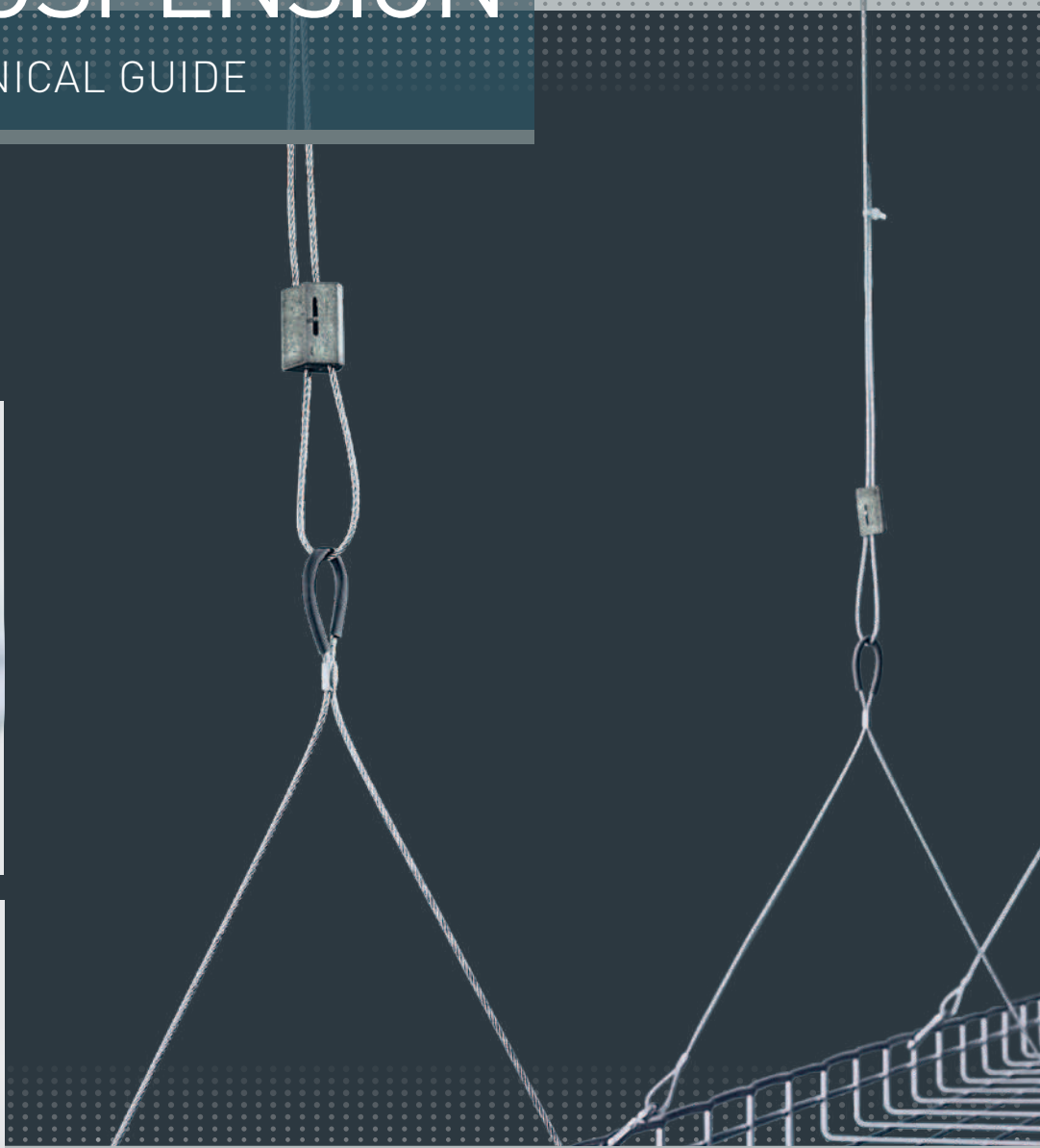


SWIFTWIRE WIRE SUSPENSION

PRODUCT TECHNICAL GUIDE



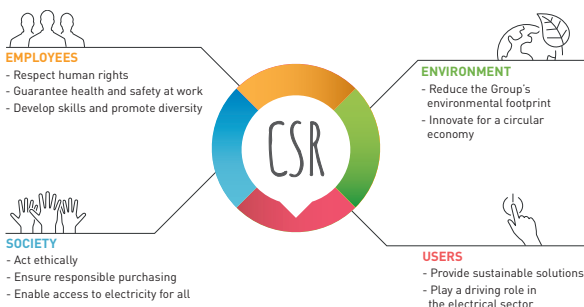
Global strength built on local knowledge

Legrand is the global specialist in electrical and digital building infrastructures. Innovation is the driving force behind its development.

With an increasing investment in research and development (circa 5% of sales) and more than 4,000 active patents, the Legrand Group is focused on maintaining a high rate of new product launches that present innovative solutions to the market.

CORPORATE SOCIAL RESPONSIBILITY

Legrand's CSR roadmap is a natural extension to the governance and sustainable development approach in which the company has been engaged for many years. The CSR roadmap firmly asserts Legrand's ongoing commitment to sustainable development.





INTRODUCTION

Legrand... the cable management expert	2-3
Swiftwire wire suspension system	4-5
Faster by design	6-7
Versatile alternative to threaded rod	8-9

PRODUCT SELECTION

Selection chart	10-15
Mechanisms and wires	16-18
Cat. No. configuration	19
Looping systems	20-21
Secured into systems	22-26
90° brackets	27
Shot fire brackets	28
Deck fixing wires	29
Toggle wires	30-31
Carabiner wires	32-33
Toggle / carabiner Y-span wires	34-35
Trapeze systems	36-37
Catenary systems	38-39
Tools and accessories	40
Seismic bracing	41-42

CONTENTS

LEGRAND

the cable management expert

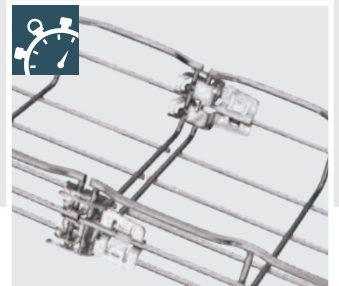
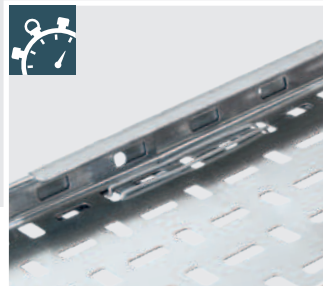
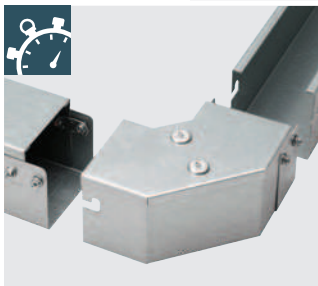


Three simple steps to better cable management...

We continually look for ways to improve our product ranges. In the case of cable management, every improvement we make has the installer in mind and is based around the three areas that make up our 'Faster by Design' ethos:

- | | | |
|--------------------------|--------------------------|-------------------------|
| 1 | 2 | 3 |
| EASIER TO INSTALL | FASTER TO INSTALL | FEWER COMPONENTS |

Our products are not only faster to install, they're also easier to handle and require fewer components - reducing the total installed cost of your project.



Supporting you and your project

With in-depth knowledge and experience, our expert cable management team provides you with the support and advice you need for your installation. We also offer a range of free CPD seminars and a wealth of resources are available on our website to help you with your project.

You will find the following helpful items on our website, www.legrand.co.uk:

- BIM files
- CPD accredited seminars
- Product technical guides
- PEPs (Product Environmental Profiles)
- 'How to' videos and CGIs demonstrating our product ranges



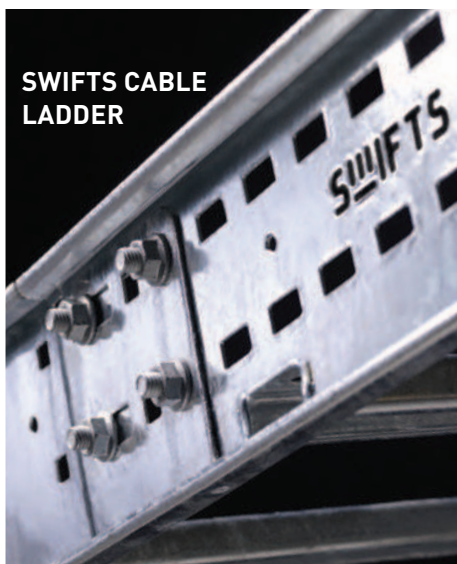
FIND OUT MORE...
www.legrand.co.uk

COMPLETE CABLE MANAGEMENT SOLUTIONS

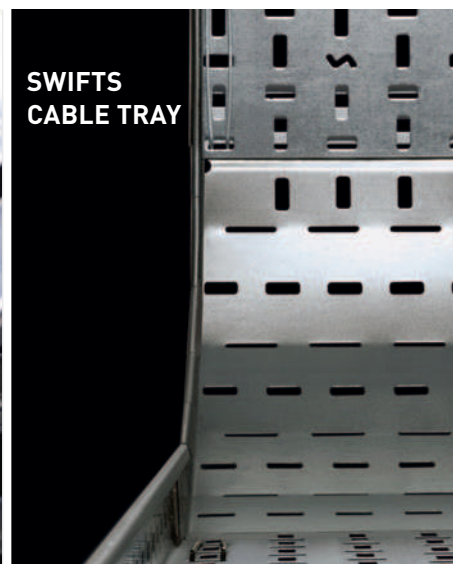
Using its global strength and market leading position, Legrand has developed a complete range of cable management solutions, including:

- Swifts cable ladder
- Swifts cable tray
- Salamandre distribution trunking and lighting trunking
- Cablofil steel wire cable tray
- Swiftwire wire suspension system
- Floor and perimeter systems

SWIFTS CABLE LADDER



SWIFTS CABLE TRAY



SALAMANDRE DISTRIBUTION TRUNKING



Swiftwire wire suspension...

For Legrand cable management and more.



CABLOFIL STEEL WIRE CABLE TRAY

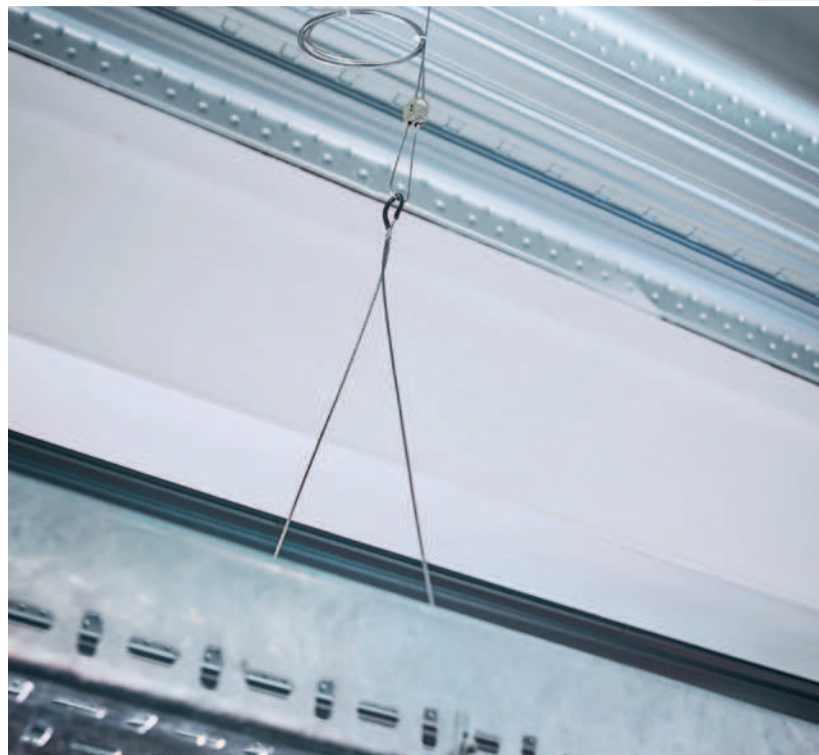




Swiftwire

wire suspension system

Legrand's innovative Swiftwire range features products specifically designed for speed and ease of use. The range is based around a simple yet highly efficient locking mechanism which, together with high grade galvanised wire, can provide a wealth of versatility to your next installation.



Suitable for variety of installations...

ELECTRICAL:

- Steel wire cable tray
- Cable tray and cable ladder
- Distribution trunking
- Busbar and Buscom
- Lighting systems
- Security systems

HVAC:

- Ducting
- Heating panels
- Ventilation units
- Utility pipes

OTHERS:

- Seismic bracing
- Retail signage and displays
- Seasonal decorations
- Exhibition installations
- And more...

Innovative mechanism features

1
KEY FREE RELEASE
All Swiftwire mechanisms feature a key free release to allow for easy adjustment

2
ERGONOMIC THUMB GRIP
Specifically designed for easy handling during installation

3
TWO INDEPENDENT WIRE CHANNELS
Create in-line joints and wrap-arounds with a single mechanism




4
ZAMAC 5
Outer housing manufactured from ZAMAC 5 to offer excellent hardness and strength



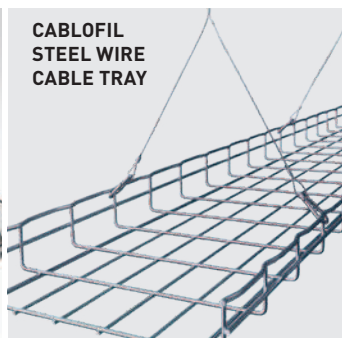
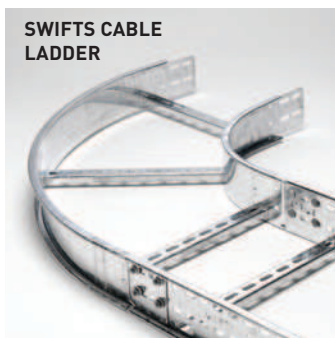
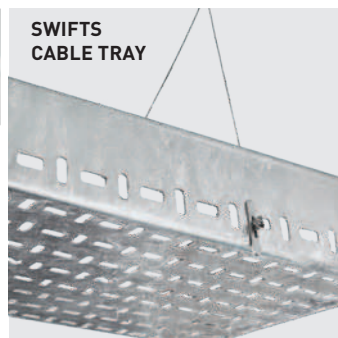


Like all our cable management ranges, Swiftwire fits our Faster by Design ethos. It is not only faster to install, but also easier to handle and requires fewer components - reducing the total cost of the install.



EASIER TO INSTALL 	FASTER TO INSTALL 	FEWER COMPONENTS 
<ul style="list-style-type: none"> • Key free release • Ergonomic thumb grip • Independent wire channels for wrap-around installations • No hot works permit required 	<ul style="list-style-type: none"> • Quick and easy to cut wire on site • Suspension can be lowered to ground level during installation for ease and speed • Can be raised and lowered to make easy adjustments • Key free adjustments 	<ul style="list-style-type: none"> • No nuts and bolts required • Can create simple wrap-around installations using as little as two components • Systems supplied with all components required

Ideal for use with the cable management range...



Submitted for approval to:







A quick and versatile alternative to threaded rod

Threaded rod



LOGISTICS

- Large vehicles required for transporting can create access problems on site
- Limited space and weight available in work vehicles
- Numerous components needed which increases space required and weight
- 20 x M10 3m threaded rod weighs 30kg
- Can be damaged during transit

HEALTH & SAFETY

- Manual handling restrictions
- Hot work permit required
- Limited traceability
- Sharp edges
- Threaded rod is not certified
- Packaging problems

LABOUR

- Additional labour required - handling, preparation and assembly
- Difficult to adjust
- Reduced flexibility on specials
- Specific tooling required

Swiftwire



LOGISTICS

- Sets supplied with all components (supplied in a small box or bag)
- 100m coiled wire is equivalent to 30 x 3m lengths of threaded rod
- Frees extra space on vehicles
- Fewer stocking items required

HEALTH & SAFETY

- Easy to transport around site
- No hot work permit required, cold cut only
- Recyclable packaging
- 5:1 safety factor on wire products
- Full technical support
- Limited manual handling risk due to reduced weight

LABOUR

- Quick and easy to install – reduces required labour
- Products are ergonomically designed for easy handling
- Bespoke products for specific applications
- Quick and simple to adjust
- Limited tooling required

Swiftwire wire suspension systems

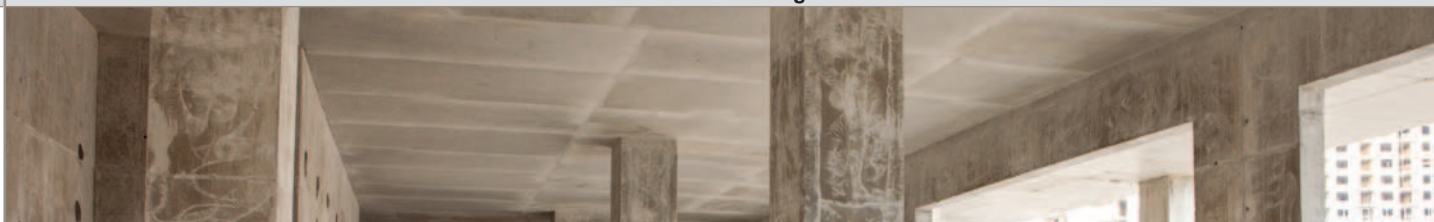
selection chart

Systems		Fixing type in ceiling or wall								
		RSJ/Steel beam				Purlin				
		Product type								
		Loop ended wires	Eye ended wires	Heavy duty trapeze	Light duty trapeze	Loop ended wires	Eye ended wires	Heavy duty trapeze	Light duty trapeze	
LOOPING SYSTEMS		SWXXL see p. 20	SWXXLE see p. 21	SWXXTPL see p. 36	SWXXLTPL see p. 37	SWXXL see p. 20	SWXXLE see p. 21	SWXXTPL see p. 36	SWXXLTPL see p. 37	
SECURED INTO SYSTEMS		-	-	-	-	-	-	-	-	
FIXED TO SYSTEMS		-	-	-	-	-	-	-	-	
Fixing accessories for applications										
WIRE BASKET		Toggle	-	-	-	-	-	-	-	
		Carabiner	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	-	-	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	-	-
		Loop	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-
		Trapeze	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37
TRAY SYSTEMS		Toggle	SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34	SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34	-	-	SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34	SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34	-	
		Carabiner	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	-	-	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	-	-
		Loop	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-
		Trapeze	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37
TRUNKING SYSTEMS		Toggle	SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	-	-	SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	-	
		Carabiner	SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	-	-	SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	-	-
		Loop	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-
		Trapeze	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37
LADDER SYSTEMS		Toggle	-	-	-	-	-	-	-	
		Carabiner	-	-	-	-	-	-	-	
		Loop	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-
		Trapeze	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37

1 : For use with channel to create trapeze

Fixing type in ceiling

Concrete ceiling



Product type

Concrete anchor	Impact concrete anchor	Threaded anchor	Shot fire bracket	Heavy duty trapeze concrete anchor	Heavy duty trapeze threaded anchor	Light duty trapeze concrete anchor	Light duty trapeze threaded anchor
-	-	-	-	-	-	-	-
SWXXCA see p. 22	SWXXCA2 see p. 23	SWXTXXXXX see p. 24-25	SWXSF see p. 28	SWXTPCA see p. 36	SWXTPTM8x60 see p. 36	SWXLTPCA see p. 37	SWXLTPTM6x45 see p. 37
-	-	-	-	-	-	-	-

Fixing accessories for applications

-	-	-	-	-	-	-	-
SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	-	-	-	-
SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	-	-
-	-	-	-	SWTP SWXTPCA see p. 36	SWTP SWXTPTM8x60 see p. 36	SWLTP SWXLTPCA see p. 37	SWLTP SWXLTPTM6x45 see p. 37
SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34	SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34	SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34	SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34	-	-	-	-
SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	-	-	-	-
SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	-	-
-	-	-	-	SWTP SWXTPCA see p. 36	SWTP SWXTPTM8x60 see p. 36	SWLTP SWXLTPCA see p. 37	SWLTP SWXLTPTM6x45 see p. 37
SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	-	-	-	-
SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	-	-	-	-
SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	-	-
-	-	-	-	SWTP SWXTPCA see p. 36	SWTP SWXTPTM8x60 see p. 36	SWLTP SWXLTPCA see p. 37	SWLTP SWXLTPTM6x45 see p. 37
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	-	-
-	-	-	-	SWTP SWXTPCA see p. 36	SWTP SWXTPTM8x60 see p. 36	SWLTP SWXLTPCA see p. 37	SWLTP SWXLTPTM6x45 see p. 37

1 : For use with channel to create trapeze

Fixing type in ceiling or wall

Decking ceiling		Wooden ceiling		Concrete walls			
Product type							
-		-		-		-	
		90° bracket	Shot fire bracket	Concrete anchor	Impact concrete anchor	Threaded anchor	Shot fire bracket
-		SWXXBR1 see p. 27	SWXXSF see p. 28	SWXXCA see p. 22	SWXXCA2 see p. 23	SWXXTXXXXXX see p. 24-25	SWXXSF see p. 28
Deck fixing							
SWXXDEC see p. 29		-		-		-	
Fixing accessories for applications							
-		-		-			
SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34		SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34		SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34			
SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21			
SWLTP SWTP see p. 36-37		-		-			
SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34		SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34		SWXXYXXTG SWXXTG SWXEYEXXTG see p. 30, 34			
SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34		SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34		SWXXYXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34			
SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21			
SWLTP SWTP see p. 36-37		-		-			
SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34		SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34		SWXXYXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34			
SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34		SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34		SWXXYXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34			
SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21			
SWLTP SWTP see p. 36-37		-		-			
-		-		-			
-		-		-			
SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21			
SWLTP SWTP see p. 36-37		-		-			

For Cat. Nos. configuration, see p. 19

1 : For use with channel to create trapeze

Swiftwire wire suspension systems

selection chart (continued)

Systems		Fixing type in ceiling or wall							
		RSJ/Steel beam				Purlin			
		Loop ended wires	Eye ended wires	Heavy duty trapeze	Light duty trapeze	Loop ended wires	Eye ended wires	Heavy duty trapeze	Light duty trapeze
		SWXXL see p. 20	SWXXLE see p. 21	SWXXTPL see p. 36	SWXXLTPL see p. 37	SWXXL see p. 20	SWXXLE see p. 21	SWXXTPL see p. 36	SWXXLTPL see p. 37
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-

Product type

		Loop ended wires	Eye ended wires	Heavy duty trapeze	Light duty trapeze	Loop ended wires	Eye ended wires	Heavy duty trapeze	Light duty trapeze
LOOPING SYSTEMS		SWXXL see p. 20	SWXXLE see p. 21	SWXXTPL see p. 36	SWXXLTPL see p. 37	SWXXL see p. 20	SWXXLE see p. 21	SWXXTPL see p. 36	SWXXLTPL see p. 37
SECURED INTO SYSTEMS		-	-	-	-	-	-	-	-
FIXED TO SYSTEMS		-	-	-	-	-	-	-	-

Fixing accessories for ceiling or wall systems

		SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34	SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34	-	-	SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34	SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34	-	-
LIGHTING		SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34	SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34	-	-	SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34	SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34	-	-
		SWXXYXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	-	-	SWXXYXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXYXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	-	-
		SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-
		-	-	-	-	-	-	-	-
DUCTING		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-
		-	-	-	-	-	-	-	-
PIPING		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-
		-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37
BUSBAR		SWXXYXXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	SWXXYXXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	-	-	SWXXYXXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	SWXXYXXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34	-	-
		SWXXYXXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	SWXXYXXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	-	-	SWXXYXXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	SWXXYXXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34	-	-
		SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-
		-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37	-	-	SWTP SWXXTPL see p. 36	SWLTP SWXXLTPL see p. 37

1 : For use with channel to create trapeze

Fixing type in ceiling

Concrete ceiling



Product type

Concrete anchor	Impact concrete anchor	Threaded anchor	Shot fire bracket	Heavy duty trapeze concrete anchor	Heavy duty trapeze threaded anchor	Light duty trapeze concrete anchor	Light duty trapeze threaded anchor
SWXXCA see p. 22	SWXXCA2 see p. 23	SWXTXXXXXX see p. 24-25	SWXXSF see p. 28	SWXTPCA see p. 36	SWXTPTM8x60 see p. 36	SWXLTPCA see p. 37	SWXLTPTM6x45 see p. 37
-	-	-	-	-	-	-	-

Fixing accessories for concrete ceiling systems

SWXXXTG SWXTG SWXEYEXXTG see p. 30, 34	SWXXXTG SWXTG SWXEYEXXTG see p. 30, 34	SWXXXTG SWXTG SWXEYEXXTG see p. 30, 34	SWXXXTG SWXTG SWXEYEXXTG see p. 30, 34	-	-	-	-
SWXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	SWXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34	-	-	-	-
SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	-	-
-	-	-	-	SWTP SWXTPCA see p. 36	SWTP SWXTPTM8x60 see p. 36	SWLTP SWXLTPCA see p. 37	SWLTP SWXLTPTM6x45 see p. 37
SWXXXTG ¹ SWXTG ¹ SWXEYEXXTG ¹ see p. 30, 34	SWXXXTG ¹ SWXTG ¹ SWXEYEXXTG ¹ see p. 30, 34	SWXXXTG ¹ SWXTG ¹ SWXEYEXXTG ¹ see p. 30, 34	SWXXXTG ¹ SWXTG ¹ SWXEYEXXTG ¹ see p. 30, 34	-	-	-	-
SWXXXCAR ¹ SWXXCAR ¹ SWXEYEXXCAR ¹ see p. 32, 34	SWXXXCAR ¹ SWXXCAR ¹ SWXEYEXXCAR ¹ see p. 32, 34	SWXXXCAR ¹ SWXXCAR ¹ SWXEYEXXCAR ¹ see p. 32, 34	SWXXXCAR ¹ SWXXCAR ¹ SWXEYEXXCAR ¹ see p. 32, 34	-	-	-	-
SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	SWXXL SWXXLE see p. 20-21	-	-	-	-
-	-	-	-	SWTP SWXTPCA see p. 36	SWTP SWXTPTM8x60 see p. 36	SWLTP SWXLTPCA see p. 37	SWLTP SWXLTPTM6x45 see p. 37

1 : For use with channel to create trapeze

Fixing type in ceiling or wall							
Decking ceiling		Wooden ceiling		Concrete walls			
Product type							
-		-		-		-	
		90° bracket	Shot fire bracket	Concrete anchor	Impact concrete anchor	Threaded anchor	Shot fire bracket
-		SWXXBR1 see p. 27	SWXXSF see p. 28	SWXXCA see p. 22	SWXXCA2 see p. 23	SWXXTXXXXXX see p. 24-26	SWXXSF see p. 28
Deck fixing							
SWXXDEC see p. 29		-		-		-	
Fixing accessories for decking ceiling and wooden ceiling systems							
SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34		SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34		SWXXYXXXTG SWXXTG SWXEYEXXTG see p. 30, 34			
SWXXYXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34		SWXXYXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34		SWXXYXXXCAR SWXXCAR SWXEYEXXCAR see p. 32, 34			
SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21			
-		-		-			
-		-		-			
-		-		-			
SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21			
-		-		-			
-		-		-			
-		-		-			
SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21			
SWLTP SWTP see p. 36-37		-		-			
SWXXYXXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34		SWXXYXXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34		SWXXYXXXTG ¹ SWXXTG SWXEYEXXTG ¹ see p. 30, 34			
SWXXYXXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34		SWXXYXXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34		SWXXYXXXCAR ¹ SWXXCAR SWXEYEXXCAR ¹ see p. 32, 34			
SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21		SWXXL SWXXLE see p. 20-21			
SWLTP SWTP see p. 36-37		-		-			



For Cat. Nos. configuration,
see p. 19



Selection charts **p. 10-15**
 Technical information **p. 16-17**
 Wire specifications **p. 18**

Key free release
 Ideal for long drop lengths
 Thumb grip for easy handling (except Cat. Nos. SW500M and SW500LOK)

Suitable for supporting :

- Cable management
- Lighting
- Busbar
- Ducting
- Support systems

Pack	Cat. Nos.	Mechanisms	Safe working load (kg)
		Zamac 5 housing with oil impregnated sintered steel wedge	
		Mechanisms¹	
10	SW10M	Mechanism for use with type 1 wire	10
10	SW50M	Mechanism for use with type 2 wire	50
10	SW120M	Mechanism for use with type 3 wire	120
10	SW230M	Mechanism for use with type 4 wire	230
10	SW500M	Mechanism for use with type 5 wire	500
		Lockable mechanisms¹	
		Tamper resistant	
10	SW120LOK	Lockable mechanism for use with type 3 wire	120
10	SW230LOK	Lockable mechanism for use with type 4 wire	230
10	SW500LOK	Lockable mechanism for use with type 5 wire	500

Pack	Cat. Nos.	Wires	Safe working load (kg)
		Galvanised wires	
		Wires conform to BS EN 12385	
1	SWW10200M	Type 1 wire 200 m	10
1	SWW50100M	Type 2 wire 100 m	50
1	SWW50200M	Type 2 wire 200 m	50
1	SWW50500M	Type 2 wire 500 m	50
1	SWW120100M	Type 3 wire 100 m	120
1	SWW230100M	Type 4 wire 100 m	230
1	SWW500100M	Type 5 wire 100 m	500
		Stainless steel wires	
		Wires conform to AISI 316	
1	SWW8S100M	Type 1 wire 100 m	8
1	SWW8S200M	Type 1 wire 200 m	8
1	SWW45S100M	Type 2 wire 100 m	45
1	SWW100S100M	Type 3 wire 100 m	100
1	SWW200S100M	Type 4 wire 100 m	200

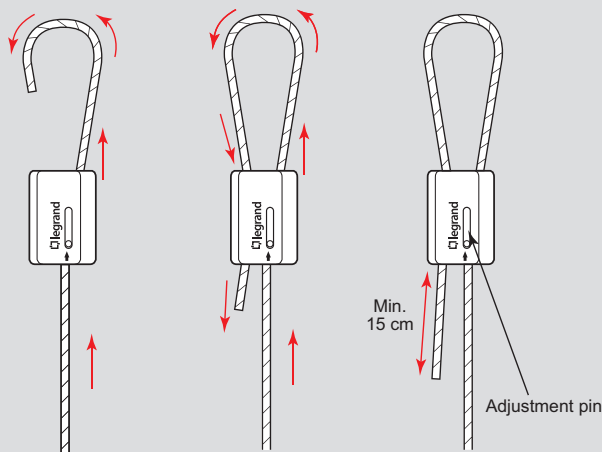
1 : Safe working loads are only assured when used with the correct Legrand wire type

Tools and accessories
p. 40



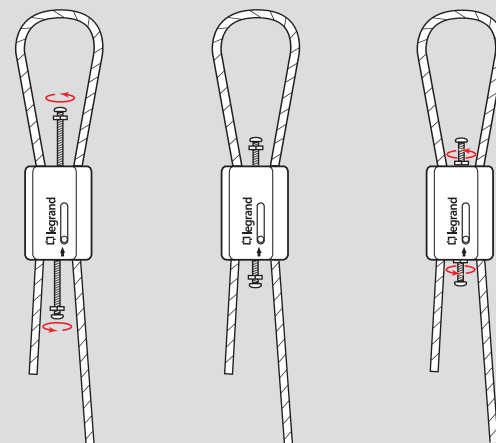
Installation – using the mechanism

- Pass one end of the wire through the mechanism in the direction of the arrow and draw through enough wire to go around/through the fixing point
- Pass the wire end back through the mechanism leaving at least 15 cm of free wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



Installation – using the lockable mechanism

- Unscrew the locking nut and bolt until the adjustment pin is pushed back fully
- Pass one end of the wire through the mechanism in the direction of the arrow and draw through enough wire to go around/through the fixing point
- Pass the wire end back through the mechanism leaving at least 15 cm of free wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin
- Tighten each screw by hand until secure
- Twist each nut until they are flush with the mechanism

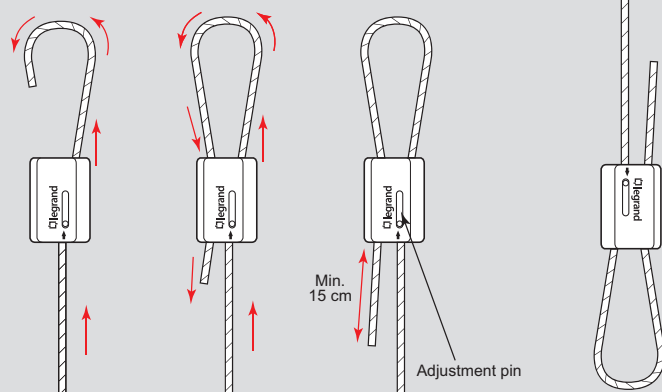


mechanisms and wires

technical information (continued)

■ Installation – figure of eight suspension

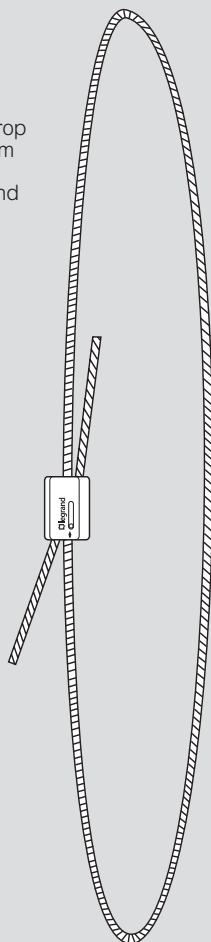
- Cut wire to desired length for the drop required using an appropriate wire cutter (see p. 40 for tools and accessories)
- Pass one end of the wire through the mechanism in the direction of the arrow and draw through enough wire to go around/through the fixing point
- Pass the wire end back through the mechanism leaving at least 15 cm of free wire protruding
- At the other end again pass the wire through the mechanism in the direction of the arrow
- Pass the free end of the wire around the suspension or through the fixing and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



■ Installation – wrap-around

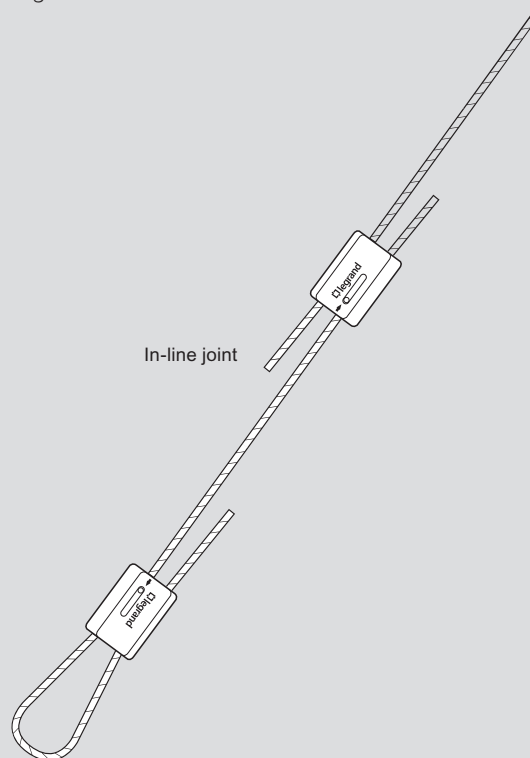
A Swiftwire mechanism can be used to create a wrap-around

- This can be incorporated with a fixing choice in order to create one full suspension
- Cut double the length of wire required for the drop
- Pass one end of the wire through the mechanism and go through/around the fixing point
- Pass the wire through/around the suspension and then back through the mechanism



■ Extending a suspension

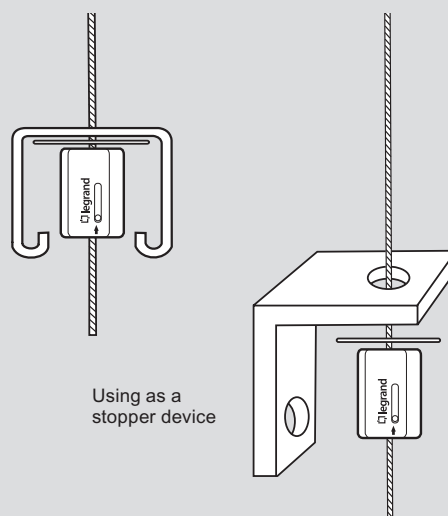
- Suspensions can be extended by passing the end of each wire through the mechanism



■ Using the mechanism with channel and brackets

Each mechanism has a flat side across its smallest axis and can therefore be used as a stopper device by feeding the wire through just one channel

- To adjust, remove the load and pull the wire slightly to disengage the mechanism then release using the adjustment pin
- By incorporating a penny washer or channel nut above the mechanism, the supporting surface area can be increased. This method is ideal for multi-tier trapeze drops offering a quick, cost effective and simple solution
- The use of a penny washer or channel nut is optional



Mechanism and wire specifications

Physical properties		
Density	6700 kg/m ³ at 21 °C	
Solidification shrinkage	1.17 %	
Casting shrinkage	0.6 % (pressure diecasts)	
Freezing range	-381 to -387 °C	
Melting point	400 to 420 °C	
Specific heat capacity	418.1 J/kg/°C at 20 to 100 °C	
Thermal expansion	27 10 (-6) linear per °C at 20 to 100 °C	
Thermal conductivity	108.9 W/m/hr/m ² /°C at 70 to 140 °C	
Electrical conductivity	26 % IACS	
Electrical resistivity	6.5359 um ohm cm at 20 °C	
Mechanical properties		
	As cast	Aged
Tensile strength (MPa)	328	269
Shear strength (MPa)	262	–
Elongation (% in 51 mm)	7	13
Hardness (Brinell – 500 kg)	91	80
Impact strength (Energy, Joules)	65.1	54.2
Fatigue strength 5 x 10 cycles (MPa)	56.5	–
Typical analysis – alloying elements		
Aluminium	4 %	
Copper	1 %	
Magnesium	0.05 %	
Typical analysis – impurities		
Iron	< 0.01 %	
Lead	< 0.003 %	
Cadmium	0.003 %	
Tin	< 0.001 %	
Nickel	< 0.001 %	
Silicon	< 0.01 %	

Galvanised wire

Wire type	MBL ¹ of wire rope (kg)	Construction (RHRL)	Tensile strength (N/mm ²)
1	78	7 x 7 (6/1)	1960
2	290	7 x 7 (6/1)	1960
3	645	7 x 7 (6/1)	1960
4	1240	7 x 19 (6/1)	1960
5	2804	7 x 19 (6/1)	1960

1 : Minumum Breaking Load

Stainless steel wire

Wire type	SWL ² of wire rope (kg)	Grade
1	8	AISI 316
2	45	AISI 316
3	100	AISI 316
4	200	AISI 316

2 : Safe Working Load

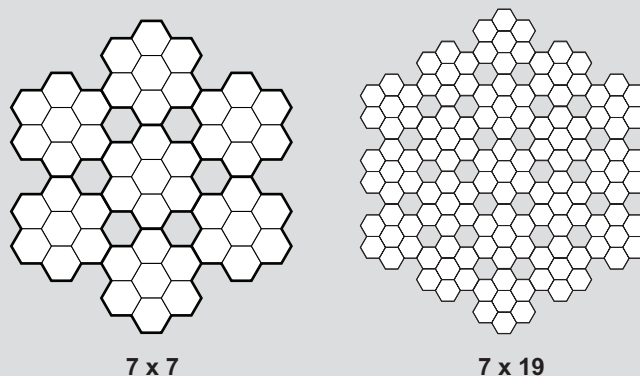
Angular performance

The table below shows the effect on the safe working load when working at an angle from the vertical when using just the wire and mechanism

Wire type ³	Vertical	15°	30°	45°	60°
1	10.0 kg	9.6 kg	8.6 kg	7.0 kg	5.0 kg
2	50.0 kg	48.0 kg	43.0 kg	35.0 kg	25.0 kg
3	120.0 kg	115.2 kg	103.2 kg	84.0 kg	60.0 kg
4	230.0 kg	220.8 kg	197.8 kg	161.0 kg	115.0 kg
Load reduction by % for all other ranges					
LOAD	100 %	96 %	86 %	70 %	50 %

3 : When using wire and mechanism

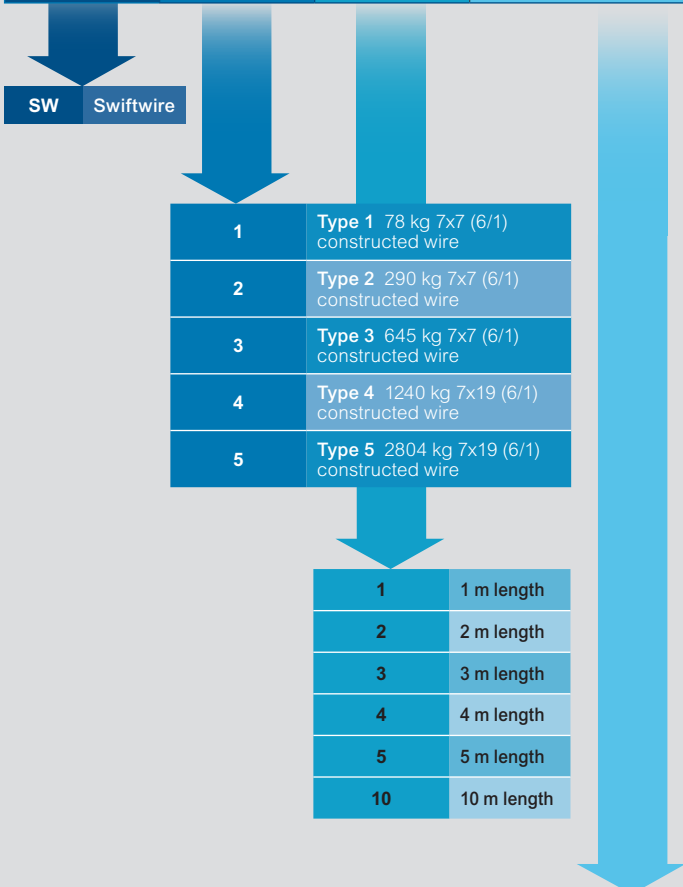
Cross-section of wires



Cat. No. configuration

technical information

Selection process

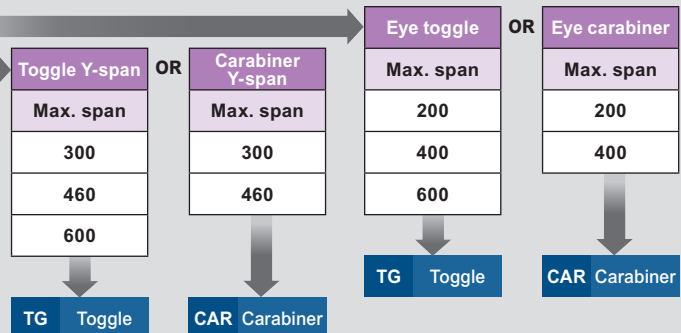
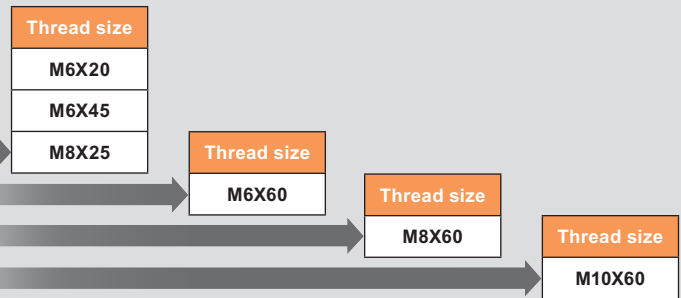


The table shows how the Swiftwire Cat. Nos. are constructed
 Cat. Nos. are made up of the four components :
 1 - Swiftwire = SW
 2 - Wire type = ie. 1-5
 3 - Length of wire = ie. 1-10 m
 4 - System type & accessory type = as listed below

1	Type 1 78 kg 7x7 (6/1) constructed wire
2	Type 2 290 kg 7x7 (6/1) constructed wire
3	Type 3 645 kg 7x7 (6/1) constructed wire
4	Type 4 1240 kg 7x19 (6/1) constructed wire
5	Type 5 2804 kg 7x19 (6/1) constructed wire

1	1 m length
2	2 m length
3	3 m length
4	4 m length
5	5 m length
10	10 m length

L	Loop ended – see p. 20
LE	Eye ended – see p. 21
CA	Concrete anchor – see p. 22
CA2	Impact concrete anchor – see p. 23
T1	Head type 1 - threaded anchor – see p. 24
T2	Head type 2 - threaded anchor eyebolt – see p. 25
T3	Head type 3 - threaded anchor eyebolt – see p. 25
T4	Head type 4 - threaded anchor eyebolt – see p. 25
BR1	90° bracket – see p. 27
SF	Shot fire bracket – see p. 28
DEC	Deck fixing – see p. 29
TG	Toggle – see p. 30
CAR	Carabiner – see p. 32
EYE	Eye toggle/carabiner – see p. 30, 32
Y	Y-span toggle/carabiner – see p. 34
TPL	Heavy duty trapeze loop ended – see p. 36
TPCA	Heavy duty trapeze concrete anchor – see p. 36
TPTM8x60	Heavy duty trapeze threaded (requires drop in anchor) – see p. 36
LTPL	Light duty trapeze loop ended – see p. 37
LTPCA	Light duty trapeze concrete anchor – see p. 37
LTPTM6x45	Light duty trapeze threaded (requires drop in anchor) – see p. 37



looping systems - loop ended wires



SWXXXL

Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

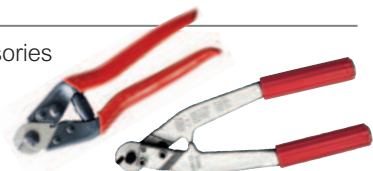
Key free release mechanism
 Suspension can be inverted
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction for wire types 1-3 and 7 x 19 construction for wire types 4 and 5
 Wires conform to BS EN 12385

Suitable for wrap-around installations including :

- Beams
- Purlins
- Roof trusses
- Other existing fixings

Pack	Cat. Nos.	Loop ended wires	
		Wires supplied with corresponding mechanisms	
		Loop ended wires - Type 1	
		Length (m)	Safe working load (kg)
10	SW11L	1	10
10	SW12L	2	10
10	SW13L	3	10
10	SW14L	4	10
10	SW15L	5	10
10	SW110L	10	10
		Loop ended wires - Type 2	
		Length (m)	Safe working load (kg)
10	SW21L	1	45
10	SW22L	2	45
10	SW23L	3	45
10	SW24L	4	45
10	SW25L	5	45
10	SW210L	10	45
		Loop ended wires - Type 3	
		Length (m)	Safe working load (kg)
10	SW31L	1	90
10	SW32L	2	90
10	SW33L	3	90
10	SW34L	4	90
5	SW35L	5	90
5	SW310L	10	90
		Loop ended wires - Type 4	
		Length (m)	Safe working load (kg)
5	SW41L	1	200
5	SW42L	2	200
5	SW43L	3	200
5	SW44L	4	200
5	SW45L	5	200
5	SW410L	10	200
		Loop ended wires - Type 5	
		Length (m)	Safe working load (kg)
15	SW51L	1	500
10	SW52L	2	500
10	SW53L	3	500
10	SW54L	4	500
5	SW55L	5	500
5	SW510L	10	500

Tools and accessories
p. 40

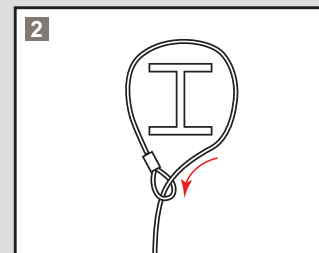
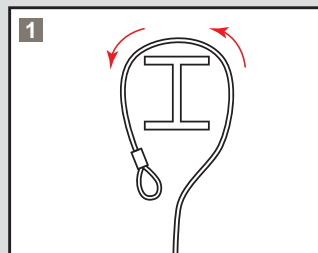


looping systems - loop ended wires

technical information

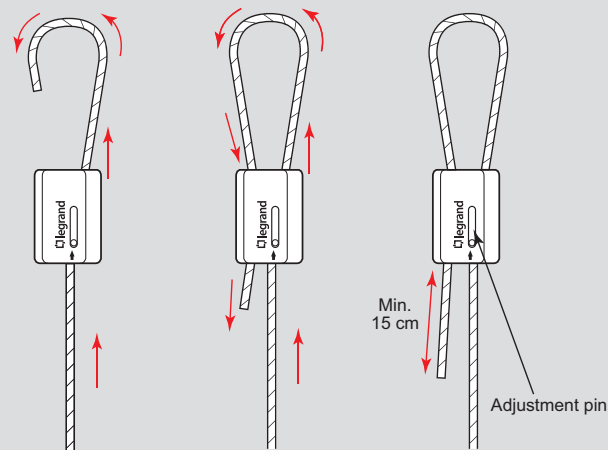
■ Installation

1. Pass the wire around the fixing point eg. purlin or beam
2. Pass the end of the wire through the loop end



■ Installation – using the mechanism

- Pass the wire through the mechanism in the direction of the arrow
- Pass the wire through/around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



looping systems - eye ended wires



10 kgs



50 and 120 kgs

Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

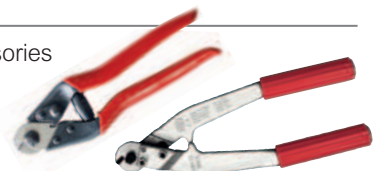
Key free release
 Precision swaged eye to reduce wire on wire friction
 Suspension can be inverted
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385

Suitable for wrap-around installations including :

- Beams
- Purlins
- Roof trusses
- Other existing fixings

Pack	Cat. Nos.	Eye ended wires	
		Wires supplied with corresponding mechanisms	
		Eye ended wires - Type 1	
		Length (m)	Safe working load (kg)
10	SW11LE	1	10
10	SW12LE	2	10
10	SW13LE	3	10
10	SW14LE	4	10
10	SW15LE	5	10
10	SW110LE	10	10
		Eye ended wires - Type 2	
		Length (m)	Safe working load (kg)
10	SW21LE	1	50
10	SW22LE	2	50
10	SW23LE	3	50
10	SW24LE	4	50
10	SW25LE	5	50
10	SW210LE	10	50
		Eye ended wires - Type 3	
		Length (m)	Safe working load (kg)
10	SW31LE	1	120
10	SW32LE	2	120
10	SW33LE	3	120
10	SW34LE	4	120
5	SW35LE	5	120
5	SW310LE	10	120

Tools and accessories
p. 40

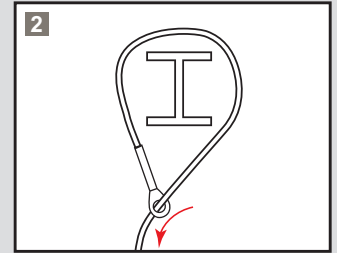
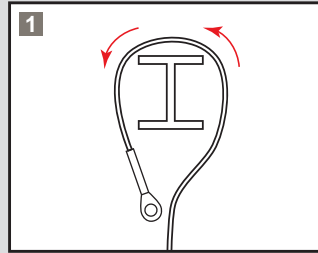


looping systems - eye ended wires

technical information

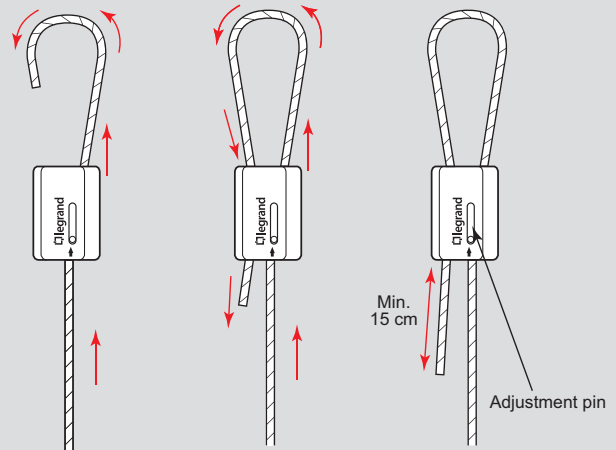
Installation

1. Pass the wire around the fixing point eg. purlin or beam
2. Pass the end of the wire through the swaged eye



Installation – using the mechanism

- Pass the wire through the mechanism in the direction of the arrow
- Pass the wire through/around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin





SWXXXCA

Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

- Key free release
- Hammer set installation
- Installed anchor expands under load, pulls the cone into the expansion clip and expands against the wall of the concrete
- No claw back required
- Shallow embedment
- Vibration resistant
- ETA approved
- High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
- Wires conform to BS EN 12385
- Helps conform to BS 8539 for installation of anchor

- Suitable for installation in :
- Cracked and non-cracked concrete
 - Reinforced concrete
 - Slagged concrete

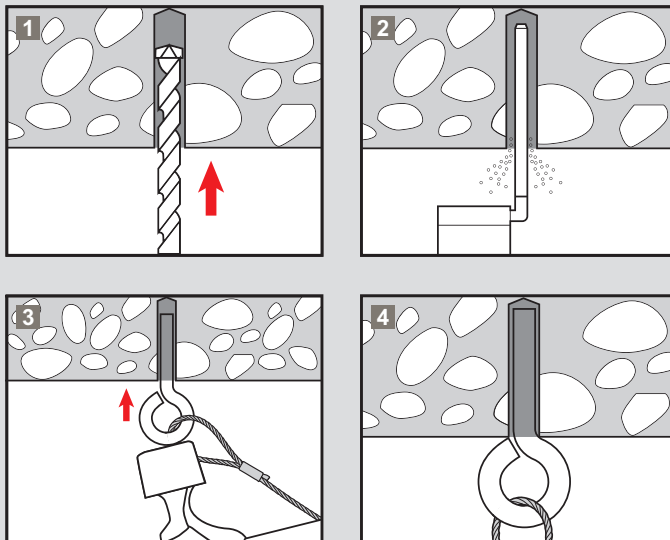
Pack	Cat. Nos.	Concrete anchor wires	
		For light and heavy duty applications Wires supplied with corresponding mechanisms	
		Concrete anchor wires - Type 1	
		Length (m)	Safe working load (kg)
10	SW11CA	1	10
10	SW12CA	2	10
10	SW13CA	3	10
10	SW14CA	4	10
10	SW15CA	5	10
10	SW110CA	10	10
		Concrete anchor wires - Type 2	
		Length (m)	Safe working load (kg)
10	SW21CA	1	50
10	SW22CA	2	50
10	SW23CA	3	50
10	SW24CA	4	50
10	SW25CA	5	50
10	SW210CA	10	50
		Concrete anchor wires - Type 3	
		Length (m)	Safe working load (kg)
10	SW31CA	1	90
10	SW32CA	2	90
10	SW33CA	3	90
10	SW34CA	4	90
5	SW35CA	5	90
5	SW310CA	10	90

Tools and accessories
p. 40



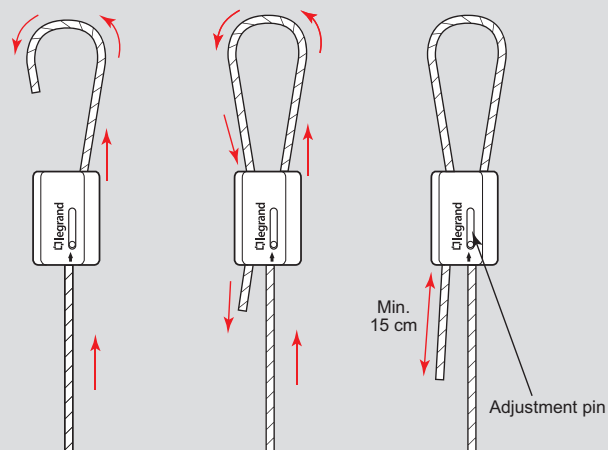
Installation

1. Drill a 6 mm hole to a minimum depth of 30 mm
2. Blow the hole clean of dust and debris
3. Hammer in the fixing
4. Anchor is now fixed, no claw back required



Installation – using the mechanism

- Pass the wire through the mechanism in the direction of the arrow
- Pass through or around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



secured into systems - impact concrete anchors



SWXXXCA2

Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

Key free release mechanism
 Hammer set installation
 Vibration resistant
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385

Suitable for installation in :
 • Comprehensive resistant stone
 • Solid brick
 • Reinforced concrete
 • Slagged concrete

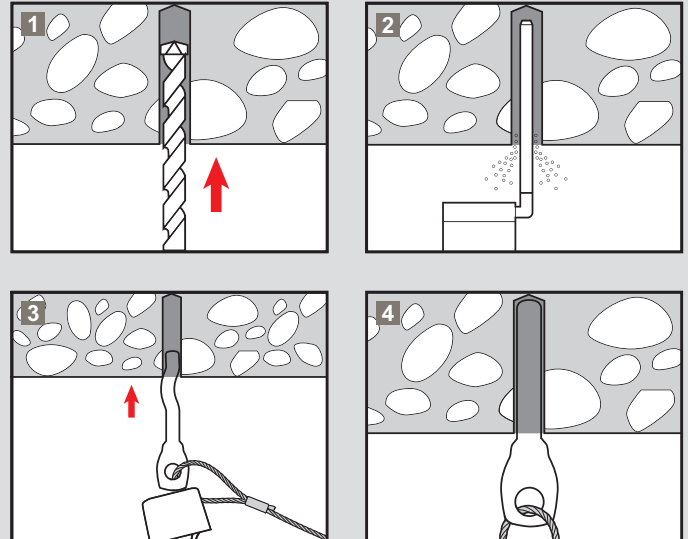
Pack	Cat. Nos.	Concrete anchor wires	
		For light duty applications Wires supplied with corresponding mechanisms	
		Impact concrete anchor wires - Type 1	
		Length (m)	Safe working load (kg)
10	SW11CA2	1	10
10	SW12CA2	2	10
10	SW13CA2	3	10
10	SW14CA2	4	10
10	SW15CA2	5	10
10	SW110CA2	10	10
		Impact concrete anchor wires - Type 2	
		Length (m)	Safe working load (kg)
10	SW21CA2	1	35
10	SW22CA2	2	35
10	SW23CA2	3	35
10	SW24CA2	4	35
10	SW25CA2	5	35
10	SW210CA2	10	35

secured into systems - impact concrete anchors

technical information

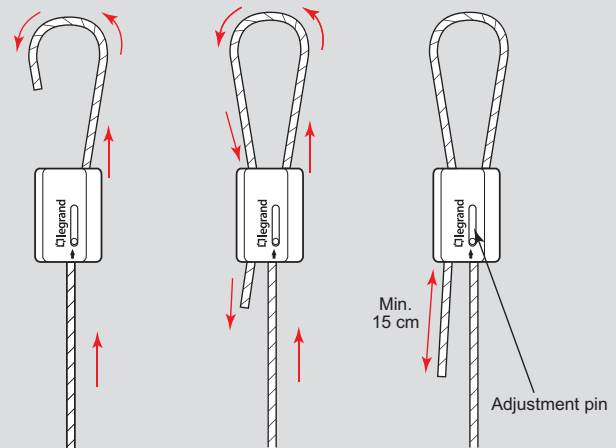
Installation

1. Drill a 5 mm hole to a minimum depth of 30 mm
2. Blow the hole clean of dust and debris
3. Drive the anchor into the hole until the head is firmly seated against the base material. Be sure the anchor is driven to the required embedment depth
4. Anchor is now fixed, no claw back required



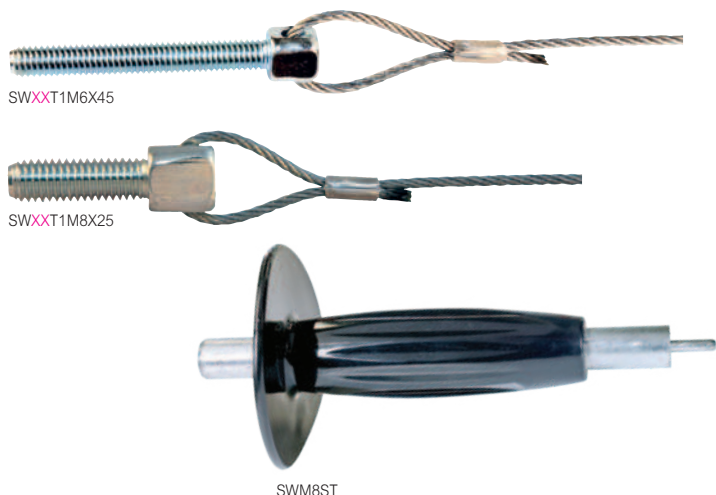
Installation – using the mechanism

- Pass the wire through the mechanism in the direction of the arrow
- Pass through or around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



Tools and accessories
p. 40





Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

Key free release mechanism
 Suspension can be inverted
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385

Suitable for installation in :

- Concrete
- Masonry

Threaded anchor wires
 Wires supplied with corresponding mechanisms and drop in anchor

Threaded anchor wires - Head type 1

Pack	Cat. Nos.	Length (m)	Safe working load (kg)
10	SW11T1M6X20	1	10
10	SW12T1M6X20	2	10
10	SW13T1M6X20	3	10
10	SW14T1M6X20	4	10
10	SW15T1M6X20	5	10
10	SW110T1M6X20	10	10
10	SW21T1M6X45	1	45
10	SW22T1M6X45	2	45
10	SW23T1M6X45	3	45
10	SW24T1M6X45	4	45
10	SW25T1M6X45	5	45
10	SW210T1M6X45	10	45
10	SW21T1M8X25	1	45
10	SW22T1M8X25	2	45
10	SW23T1M8X25	3	45
10	SW24T1M8X25	4	45
10	SW25T1M8X25	5	45
10	SW210T1M8X25	10	45
10	SW31T1M8X25	1	90
10	SW32T1M8X25	2	90
10	SW33T1M8X25	3	90
10	SW34T1M8X25	4	90
5	SW35T1M8X25	5	90
5	SW310T1M8X25	10	90

Drop in anchor tools

Standard setting tools for M6 and M8 drop in anchors

1	SWM6ST	M6 drop in anchor tool
1	SWM8ST	M8 drop in anchor tool

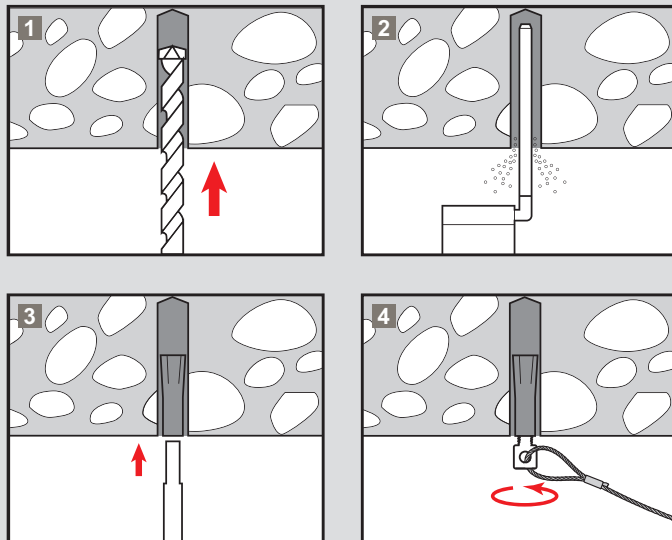
Tools and accessories
p. 40



technical information

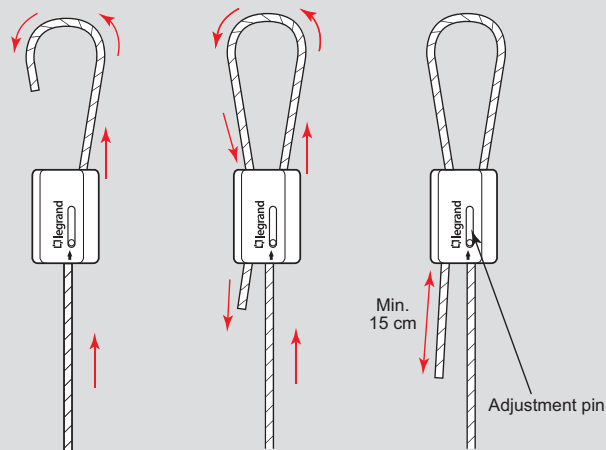
Installation

1. Drill a hole to the minimum required depth (see p. 26)
2. Blow the hole clean of dust and debris
3. Install drop in anchor using correct tool
4. Thread the anchor into place



Installation - using the mechanism

- Pass through or around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- The bolt can be used in reverse configuration and threaded into the product to be suspended
- Always confirm engagement of the mechanism on the wire by pushing the pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



secured into systems - threaded anchor eyebolts



SWXXT2M6X60



SWXXT3M8X60

Selection charts **p. 10-15**
 Technical information **p. 26**
 Wire specifications **p. 18**

Key free release mechanism
 Suspension can be inverted
 High tensile galvanised wire 1960 N/mm² grade 7 x 19 construction
 Wires conform to BS EN 12385

Suitable for installation in :

- Concrete
- Masonry



SWXXT4M10X60



SWM8ST

Pack	Cat. Nos.	Threaded anchor eyebolt wires	
		Wires supplied with corresponding mechanisms and drop in anchors	
		Threaded anchor eyebolt wires - Head type 2	
		Length (m)	Safe working load (kg)
10	SW11T2M6X60	1	10
10	SW12T2M6X60	2	10
10	SW13T2M6X60	3	10
10	SW14T2M6X60	4	10
10	SW15T2M6X60	5	10
10	SW110T2M6X60	10	10
10	SW21T2M6X60	1	45
10	SW22T2M6X60	2	45
10	SW23T2M6X60	3	45
10	SW24T2M6X60	4	45
5	SW25T2M6X60	5	45
5	SW210T2M6X60	10	45
10	SW31T2M6X60	1	90
10	SW32T2M6X60	2	90
10	SW33T2M6X60	3	90
10	SW34T2M6X60	4	90
5	SW35T2M6X60	5	90
5	SW310T2M6X60	10	90

Pack	Cat. Nos.	Threaded anchor eyebolt wires - Head type 3	
		Length (m)	Safe working load (kg)
10	SW21T3M8X60	1	45
10	SW22T3M8X60	2	45
10	SW23T3M8X60	3	45
10	SW24T3M8X60	4	45
10	SW25T3M8X60	5	45
10	SW210T3M8X60	10	45
10	SW31T3M8X60	1	90
10	SW32T3M8X60	2	90
10	SW33T3M8X60	3	90
10	SW34T3M8X60	4	90
5	SW35T3M8X60	5	90
5	SW310T3M8X60	10	90
5	SW41T3M8X60	1	200
5	SW42T3M8X60	2	200
5	SW43T3M8X60	3	200
5	SW44T3M8X60	4	200
5	SW45T3M8X60	5	200
5	SW410T3M8X60	10	200

Pack	Cat. Nos.	Threaded anchor eyebolt wires (continued)	
		Wires supplied with corresponding mechanisms and drop in anchors	
		Threaded anchor eyebolt wires - Head type 4	
		Length (m)	Safe working load (kg)
10	SW21T4M10X60	1	45
10	SW22T4M10X60	2	45
10	SW23T4M10X60	3	45
10	SW24T4M10X60	4	45
10	SW25T4M10X60	5	45
10	SW210T4M10X60	10	45
10	SW31T4M10X60	1	90
10	SW32T4M10X60	2	90
10	SW33T4M10X60	3	90
10	SW34T4M10X60	4	90
5	SW35T4M10X60	5	90
5	SW310T4M10X60	10	90

Pack	Cat. Nos.	Drop in anchor tools
		Standard setting tools for M6, M8 and M10 drop in anchors
1	SWM6ST	M6 drop in anchor tool
1	SWM8ST	M8 drop in anchor tool
1	SWM10ST	M10 drop in anchor tool

Tools and accessories **p. 40**

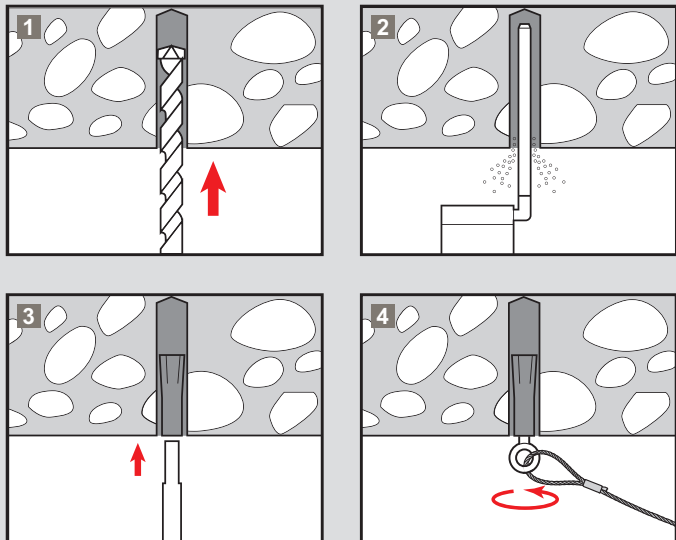


secured into systems - threaded eyebolt anchors

technical information

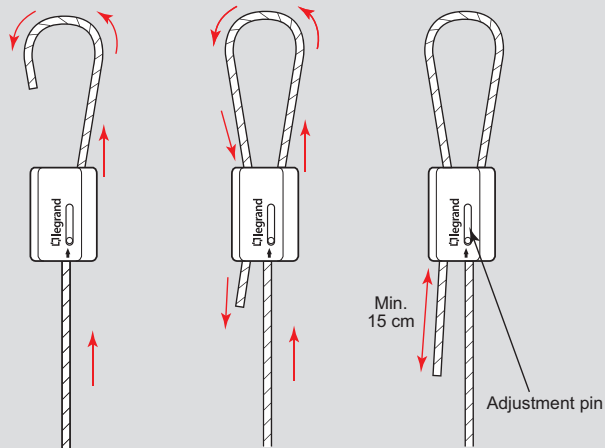
Installation

1. Drill a hole to the minimum required depth (see opposite)
2. Blow the hole clean of dust and debris
3. Install drop in anchor using correct tool
4. Thread the eyebolt into place



Installation - using the mechanism

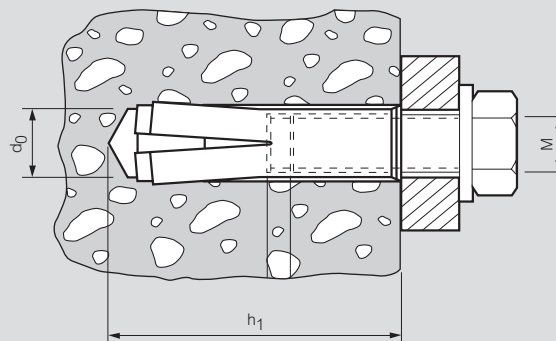
- Pass through or around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- The bolt can be used in reverse configuration and threaded into the product to be suspended
- Always confirm engagement of the mechanism on the wire by pushing the pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



drop in anchors

technical information

Drop in anchors (p. 40)



Cat. Nos.	Female thread (M)	Description	Drill dia. (d0)	Hole depth (h1)	Setting tool
SWM6DANC	M6	Drop in anchor	8 mm	25 mm approx	SWM6ST
SWM8DANC	M8	Drop in anchor	10 mm	30 mm approx	SWM8ST
SWM10DANC	M10	Drop in anchor	12 mm	40 mm approx	SWM10ST

90° brackets



SWXXBR1

Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

Key free release mechanism
 Suitable for both plug and screw and shot fire applications
 Tear drop shape allows wire to rotate through 180° in the bracket for angled applications
 Wire rotation reduces pressure on the fixing when service is not directly below anchor point
 Trivalent zinc and clear galvanised
 Suspension can be inverted
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385

Suitable for installation in :

- Concrete
- Profiled steel decking and other steel structures
- Wooden structures
- Light duty applications

Pack	Cat. Nos.	90° brackets ¹	
		Wires supplied with corresponding mechanisms	
		Bracket wires - Type 1	
		Length (m)	Safe working load (kg)
10	SW11BR1	1	10
10	SW12BR1	2	10
10	SW13BR1	3	10
10	SW14BR1	4	10
10	SW15BR1	5	10
10	SW110BR1	10	10
		Bracket wires - Type 2	
		Length (m)	Safe working load (kg)
10	SW21BR1	1	50
10	SW22BR1	2	50
10	SW23BR1	3	50
10	SW24BR1	4	50
10	SW25BR1	5	50
10	SW210BR1	10	50

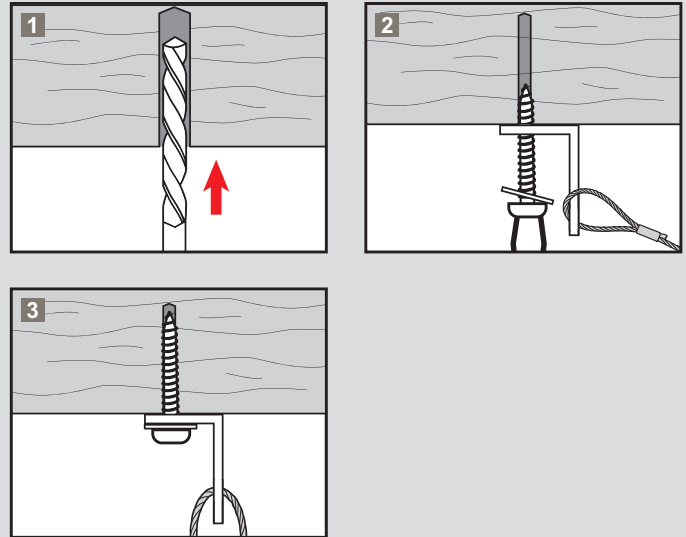
1 : Screws/fixings are not supplied

90° brackets

technical information

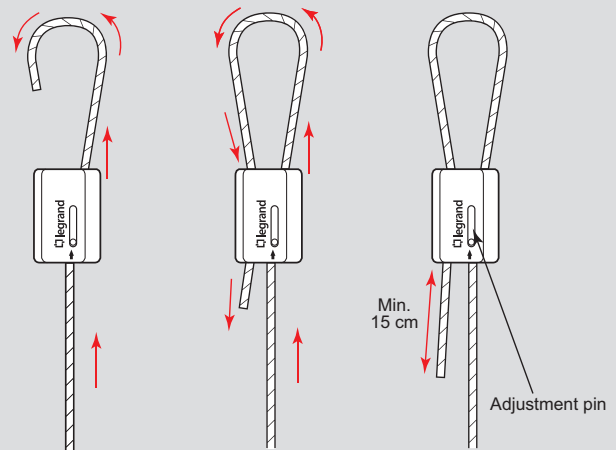
Installation

1. For timber applications, pre-drill timber and use a screw to fix through the bracket. For steel and concrete applications a self tapping fixing or a gas nailer with a suitable nail may be used. For concrete and brick drill hole to specific diameter of fixing, blow out hole and push in anchor (anchor not supplied)
2. Secure screw or anchor
3. Fixing installed



Installation – using the mechanism

- Pass the wire through the mechanism in the direction of the arrow
- Pass through or around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



For steel and concrete applications' self tapping fixing or a gas nailer with a suitable nail may be used

Tools and accessories
p. 40



shot fire brackets



SWXXSF

Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

Key free release mechanism
 Available in single or double wire drop
 Eliminates drilling

Tear drop shape allows wire to rotate through 180° in bracket for angled applications

Wire rotation reduces pressure on nail when service is not directly below anchor point

Ballistic point nail compatible with a range of Powder Actuated Tools (PAT) :

- Hilti DX460
- Hilti DXA40
- Hilti DXA41
- Hilti DX351
- Spit P200
- Spit P370

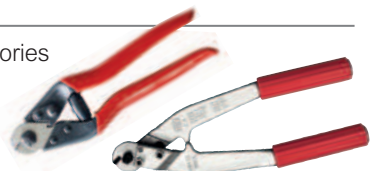
High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385

Suitable for installation in :

- Concrete
- Profiled steel decking
- Wood
- Steel beam (SFN19 metal nails required)

Pack	Cat. Nos.	Shot fire brackets														
		Wires supplied with corresponding mechanisms Supplied with ballistic point nails (7 mm with ballistic head)														
		Shot fire bracket wires - Type 1														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>10</td></tr> <tr><td>2</td><td>10</td></tr> <tr><td>3</td><td>10</td></tr> <tr><td>4</td><td>10</td></tr> <tr><td>5</td><td>10</td></tr> <tr><td>10</td><td>10</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	10	2	10	3	10	4	10	5	10	10	10
Length (m)	Safe working load (kg)															
1	10															
2	10															
3	10															
4	10															
5	10															
10	10															
		Shot fire bracket wires - Type 2														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>25</td></tr> <tr><td>2</td><td>25</td></tr> <tr><td>3</td><td>25</td></tr> <tr><td>4</td><td>25</td></tr> <tr><td>5</td><td>25</td></tr> <tr><td>10</td><td>25</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	25	2	25	3	25	4	25	5	25	10	25
Length (m)	Safe working load (kg)															
1	25															
2	25															
3	25															
4	25															
5	25															
10	25															

Tools and accessories
p. 40

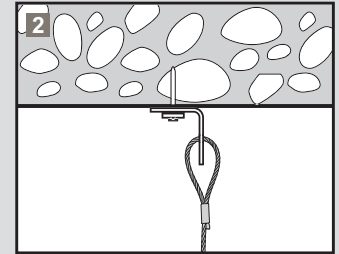
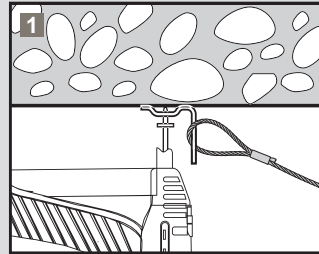


shot fire brackets

technical information

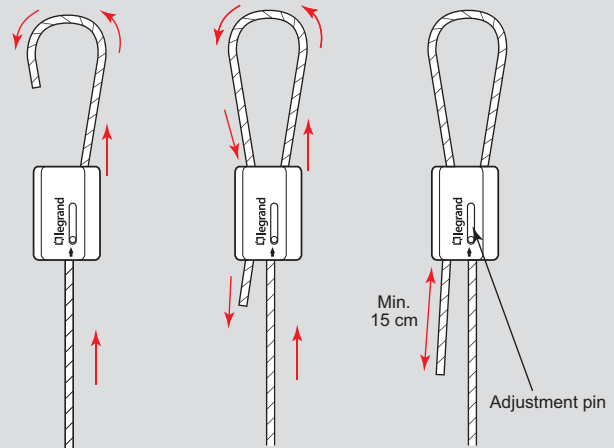
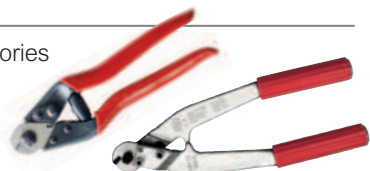
Installation

1. Ensure substrate is suitable for nail and cartridge. Locate nail into the barrel of the Powder Actuated Tool. For firing follow the gun manufacturers' guidelines
2. Fixing installed



Installation – using the mechanism

- Pass the free end of the wire through the mechanism in the direction of the arrow
- Pass through or around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin

deck fixing wires



SWXXDEC

Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

Key free release
 All components are fully assembled
 No onsite assembly required
 Lockable system, no drilling required
 Suitable where access to purlin is not available
 CNC engineered M6 x 45 mm eyelet
 Trivalent zinc and clear galvanised eyelet, nut and washer
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385

Suitable for decking applications including :

- Kingspan structural products
- Structural Metal Decks (SMD)
- Other decking solutions

Pack	Cat. Nos.	Deck fixing wires	
		Wires supplied with corresponding mechanisms	
		Deck fixing wires - Type 1	
		Length (m)	Safe working load (kg)
10	SW11DEC	1	10
10	SW12DEC	2	10
10	SW13DEC	3	10
10	SW14DEC	4	10
10	SW15DEC	5	10
10	SW110DEC	10	10
		Deck fixing wires - Type 2	
		Length (m)	Safe working load (kg)
10	SW21DEC	1	50
10	SW22DEC	2	50
10	SW23DEC	3	50
10	SW24DEC	4	50
10	SW25DEC	5	50
10	SW210DEC	10	50

Other deck fixings are available
 Please contact us on **+44 (0) 370 608 9020**

Tools and accessories
p. 40

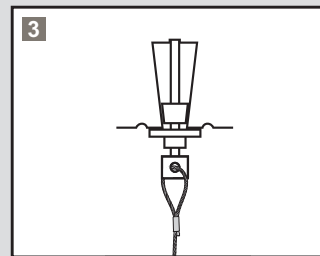
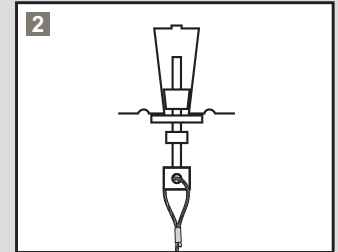
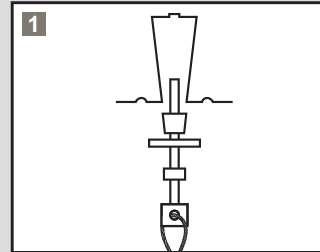


deck fixing wires

technical information

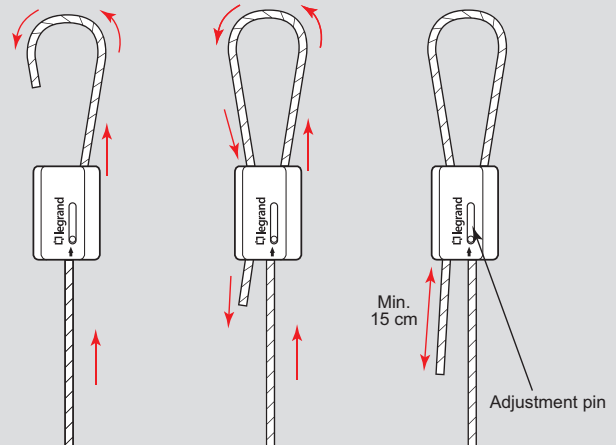
Installation

1. Push the end fixing into decking profile and turn through 90°
2. Screw the eyebolt to the top of the decking profile
3. Fixing installed



Installation – using the mechanism

- Pass the free end of the wire through the mechanism in the direction of the arrow
- Pass through or around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



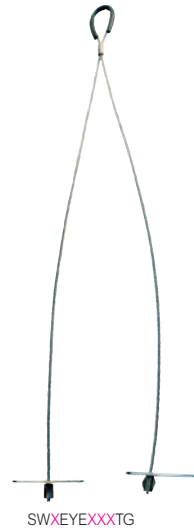
toggle wires



SWXXXTG

Selection charts **p. 10-15**
 Technical information **p. 31**
 Wire specifications **p. 18**

Key free release mechanism
 For light and medium weight applications
 BZP hardened toggles
 Suspension can be inverted
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385



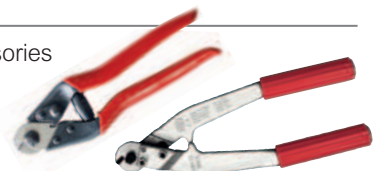
SWXEYXXXTG

Pack	Cat. Nos.	Toggle wires														
		Suitable for installing : <ul style="list-style-type: none"> • Cable trays • Busbar • Lighting • Lighting track • Trunking Wires supplied with corresponding mechanisms														
		Toggle wires - Type 1														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>10</td></tr> <tr><td>2</td><td>10</td></tr> <tr><td>3</td><td>10</td></tr> <tr><td>4</td><td>10</td></tr> <tr><td>5</td><td>10</td></tr> <tr><td>10</td><td>10</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	10	2	10	3	10	4	10	5	10	10	10
Length (m)	Safe working load (kg)															
1	10															
2	10															
3	10															
4	10															
5	10															
10	10															
		Toggle wires - Type 2														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>35</td></tr> <tr><td>2</td><td>35</td></tr> <tr><td>3</td><td>35</td></tr> <tr><td>4</td><td>35</td></tr> <tr><td>5</td><td>35</td></tr> <tr><td>10</td><td>35</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	35	2	35	3	35	4	35	5	35	10	35
Length (m)	Safe working load (kg)															
1	35															
2	35															
3	35															
4	35															
5	35															
10	35															
		Toggle wires - Type 3														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>90</td></tr> <tr><td>2</td><td>90</td></tr> <tr><td>3</td><td>90</td></tr> <tr><td>4</td><td>90</td></tr> <tr><td>5</td><td>90</td></tr> <tr><td>10</td><td>90</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	90	2	90	3	90	4	90	5	90	10	90
Length (m)	Safe working load (kg)															
1	90															
2	90															
3	90															
4	90															
5	90															
10	90															

Pack	Cat. Nos.	Eye toggle wires								
		Suitable for installing : <ul style="list-style-type: none"> • Cable trays • Busbar¹ • Lighting • Lighting track¹ • Trunking¹ Use in conjunction with other Swiftwire products to connect to ceiling : <ul style="list-style-type: none"> • Mechanism and wire • Concrete anchors • Threaded anchors • Looped systems • Other ceiling mountings 								
		Eye toggle wires - Type 1								
		<table border="1"> <thead> <tr> <th>Span (mm)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>50-200</td><td>10</td></tr> <tr><td>300-400</td><td>10</td></tr> <tr><td>400-600</td><td>10</td></tr> </tbody> </table>	Span (mm)	Safe working load (kg)	50-200	10	300-400	10	400-600	10
Span (mm)	Safe working load (kg)									
50-200	10									
300-400	10									
400-600	10									
		Eye toggle wires - Type 2								
		<table border="1"> <thead> <tr> <th>Span (mm)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>50-200</td><td>35</td></tr> <tr><td>300-400</td><td>35</td></tr> <tr><td>400-600</td><td>35</td></tr> </tbody> </table>	Span (mm)	Safe working load (kg)	50-200	35	300-400	35	400-600	35
Span (mm)	Safe working load (kg)									
50-200	35									
300-400	35									
400-600	35									

1 : For use with channel to create trapeze

Tools and accessories
p. 40



For toggle Y-span wires
p. 34

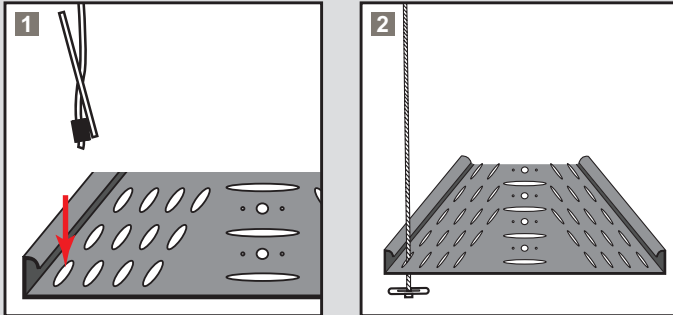


toggle wires

technical information

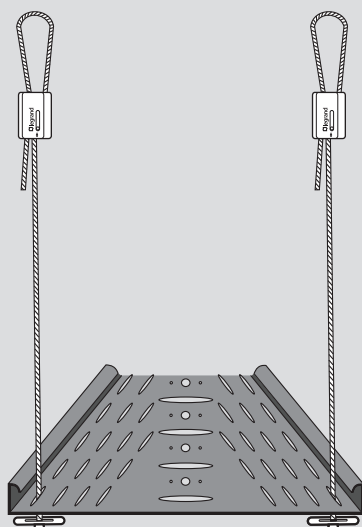
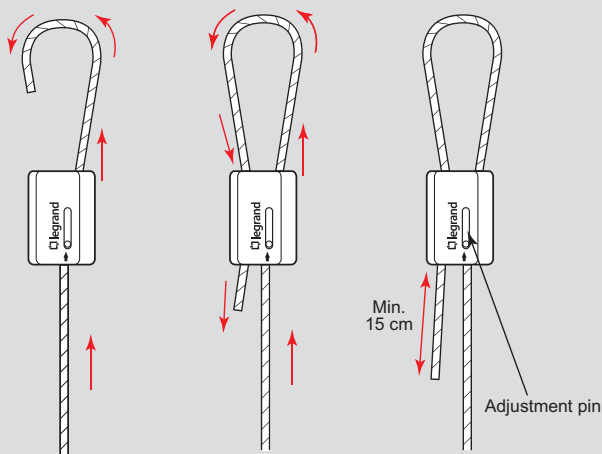
Installation – toggle wires

1. By inverting the toggle parallel to the wire it will swing through 90°
2. Push into the product being suspended. Ensure hole is no larger than 12 mm diameter and no smaller than 6 mm



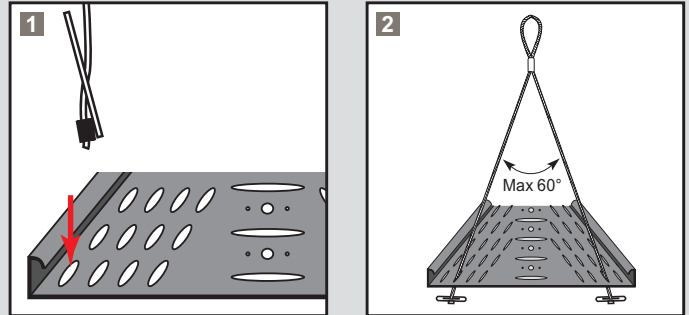
Installation – using the mechanism

- Pass the wire through the mechanism in the direction of the arrow
- Pass through or around your required suspension point and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the pin in the opposite direction indicated by the arrows
- Repeat on other side of product if required
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



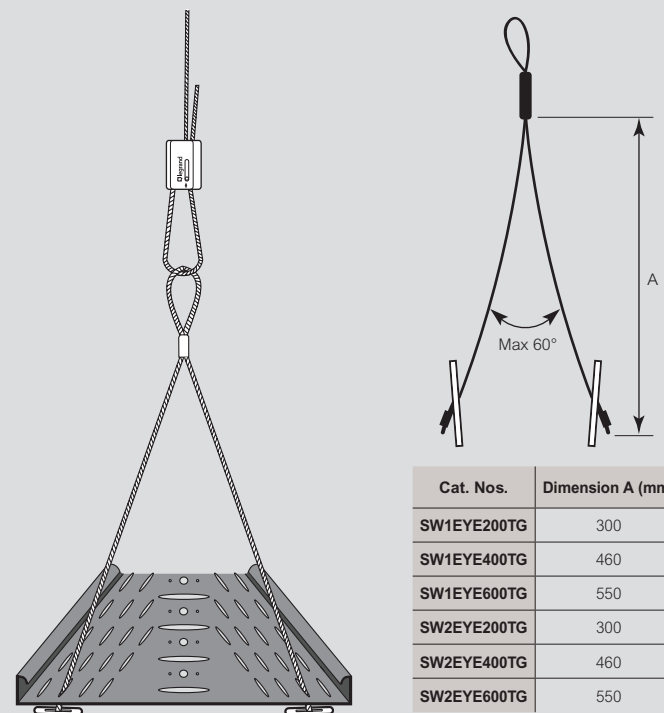
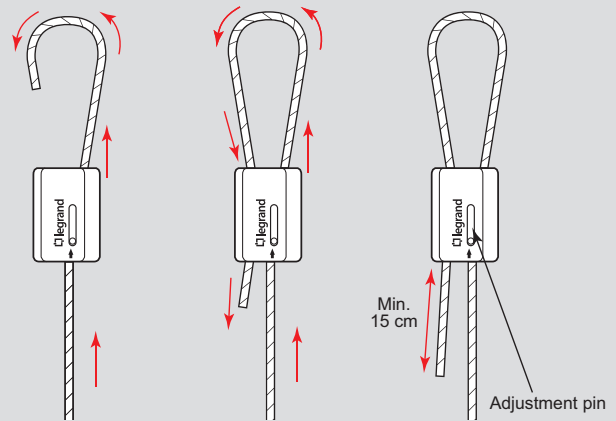
Installation – eye toggle wires

1. By inverting the toggle parallel to the wire it will swing through 90°
2. Push into the product being suspended. Ensure hole is no larger than 12 mm diameter and no smaller than 6 mm. Repeat on other side of the product. Span should not exceed 60°



Installation – using the mechanism

- Pass the free end of the wire from the ceiling suspension through the mechanism in the direction of the arrow
- Pass the wire through the plastic protected loop of the eye toggle fixing and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



Cat. Nos.	Dimension A (mm)
SW1EYE200TG	300
SW1EYE400TG	460
SW1EYE600TG	550
SW2EYE200TG	300
SW2EYE400TG	460
SW2EYE600TG	550

carabiner wires



SWXXXCAR



Selection charts **p. 10-15**
 Technical information **p. 33**
 Wire specifications **p. 18**

Key free release mechanism
 5 x 50 on type 1 and 2 wire and 6 x 60 on type 3 wire
 BZP carabiner hook
 Eyelet prevents accidental un-hooking of carabiner from wire
 Suspension can be inverted
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385



SW2EYEXXCAR

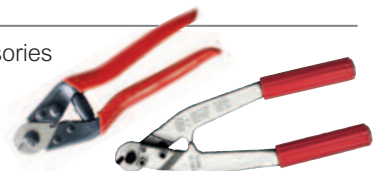
Pack	Cat. Nos.	Carabiner wires														
		Suitable for installing : <ul style="list-style-type: none"> • Steel wire cable tray • Cable tray • Lighting • Signage • Purlin hangers • Trunking • Busbar Wires supplied with corresponding mechanisms														
		Carabiner wires - Type 1														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>10</td></tr> <tr><td>2</td><td>10</td></tr> <tr><td>3</td><td>10</td></tr> <tr><td>4</td><td>10</td></tr> <tr><td>5</td><td>10</td></tr> <tr><td>10</td><td>10</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	10	2	10	3	10	4	10	5	10	10	10
Length (m)	Safe working load (kg)															
1	10															
2	10															
3	10															
4	10															
5	10															
10	10															
10	SW11CAR															
10	SW12CAR															
10	SW13CAR															
10	SW14CAR															
10	SW15CAR															
10	SW110CAR															
		Carabiner wires - Type 2														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>45</td></tr> <tr><td>2</td><td>45</td></tr> <tr><td>3</td><td>45</td></tr> <tr><td>4</td><td>45</td></tr> <tr><td>5</td><td>45</td></tr> <tr><td>10</td><td>45</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	45	2	45	3	45	4	45	5	45	10	45
Length (m)	Safe working load (kg)															
1	45															
2	45															
3	45															
4	45															
5	45															
10	45															
10	SW21CAR															
10	SW22CAR															
10	SW23CAR															
10	SW24CAR															
10	SW25CAR															
10	SW210CAR															
		Carabiner wires - Type 3														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>90</td></tr> <tr><td>2</td><td>90</td></tr> <tr><td>3</td><td>90</td></tr> <tr><td>4</td><td>90</td></tr> <tr><td>5</td><td>90</td></tr> <tr><td>10</td><td>90</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	90	2	90	3	90	4	90	5	90	10	90
Length (m)	Safe working load (kg)															
1	90															
2	90															
3	90															
4	90															
5	90															
10	90															
10	SW31CAR															
10	SW32CAR															
10	SW33CAR															
10	SW34CAR															
5	SW35CAR															
5	SW310CAR															

Pack	Cat. Nos.	Eye carabiner wires						
		Suitable for installing : <ul style="list-style-type: none"> • Steel wire cable tray • Cable tray • Busbar¹ • Lighting • Lighting track¹ • Trunking¹ Use in conjunction with other Swiftwire products to connect to ceiling : <ul style="list-style-type: none"> • Mechanism and wire • Concrete anchors • Threaded anchors • Looped systems • Other ceiling mountings 						
		Eye carabiner wires - Type 2						
		<table border="1"> <thead> <tr> <th>Span (mm)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>50-200</td><td>50</td></tr> <tr><td>300-400</td><td>50</td></tr> </tbody> </table>	Span (mm)	Safe working load (kg)	50-200	50	300-400	50
Span (mm)	Safe working load (kg)							
50-200	50							
300-400	50							
10	SW2EYE200CAR							
10	SW2EYE400CAR							

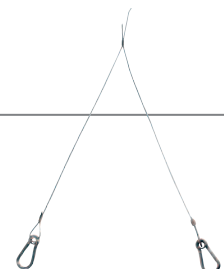
1 : For use with channel to create trapeze



Tools and accessories
p. 40



For carabiner Y-span wires
p. 34

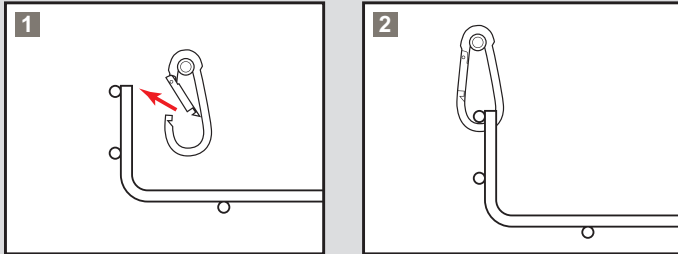


carabiner wires

technical information

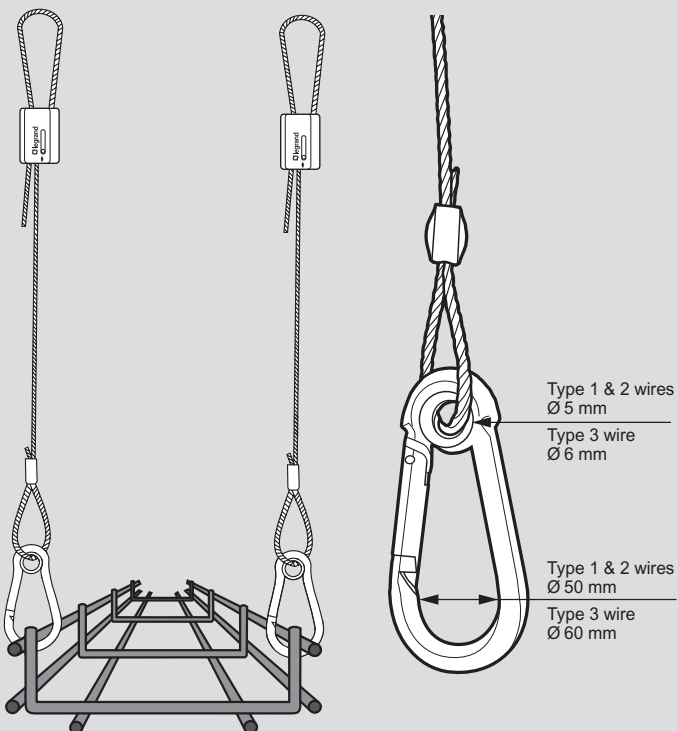
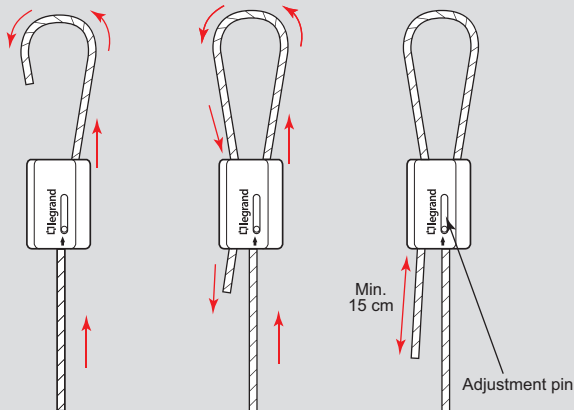
Installation – carabiner wires

1. Push carabiner clip inwards and push through/onto product device to be suspended
2. Spring clip will close once installed correctly



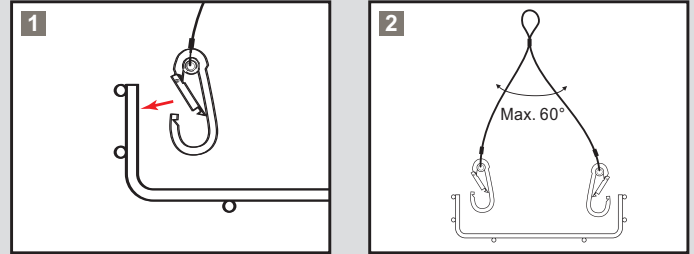
Installation – using the mechanism

- Pass the wire through/around your required suspension point (purlin or ceiling fixing) and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- Repeat on other side of product if required
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



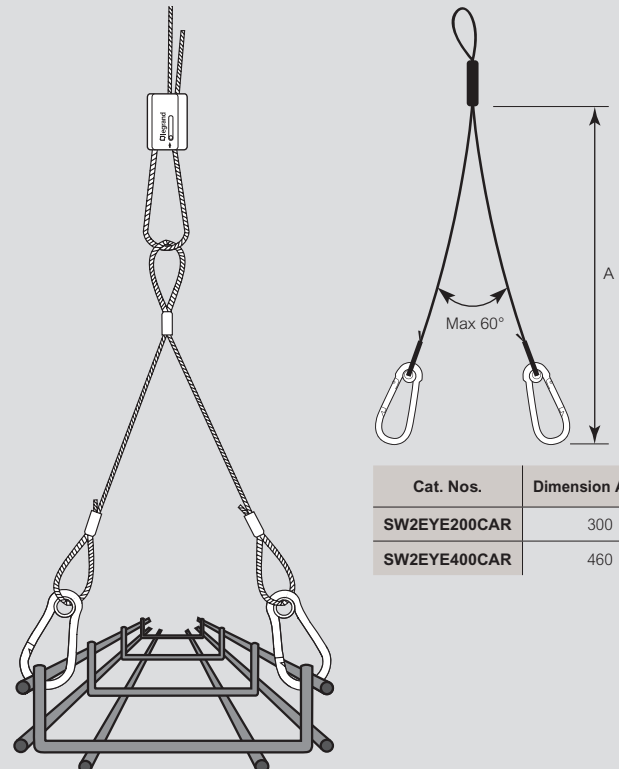
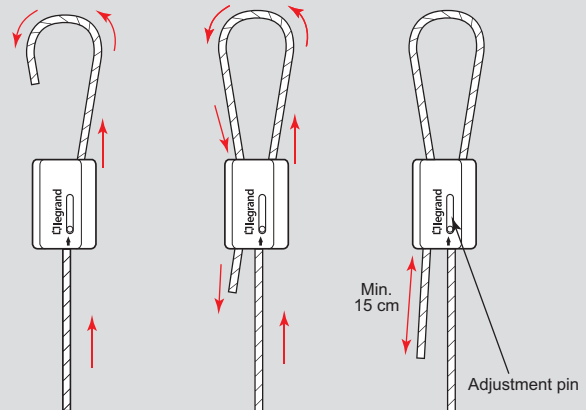
Installation – eye carabiner wires

1. The attachment of the eye carabiner fixing can be done at ground level. Snap the carabiner onto one side the product to be supported
2. Snap the carabiner onto the other side of the product. Span should not exceed 60°



Installation – using the mechanism

- Pass the free end of the wire from the ceiling suspension through the mechanism in the direction of the arrow
- Pass the wire through the plastic protected loop of the eye carabiner fixing and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



toggle Y-span wires



SWXXYXXXTG

Selection charts **p. 10-15**
 Technical information **p. 35**
 Wire specifications **p. 18**

Key free release mechanism
 One fixing point per drop
 Allows for side loading
 Can be fixed at ground level
 Reduces the use of studding and channel
 Ideal for short suspensions
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385

Suitable for installing :

- Cable tray
- Trunking¹
- Lighting
- Channel support
- Busbar¹

Pack	Cat. Nos.	Toggle Y-span wires	
		Wires supplied with corresponding mechanisms	
		Toggle Y-span wires - Type 1	
		Length (m)	Safe working load (kg)
10	SW11Y300TG	1	10
10	SW12Y300TG	2	10
10	SW13Y300TG	3	10
10	SW11Y600TG	1	10
10	SW12Y600TG	2	10
10	SW13Y600TG	3	10
		Toggle Y-span wires - Type 2	
		Length (m)	Safe working load (kg)
10	SW21Y300TG	1	35
10	SW22Y300TG	2	35
10	SW23Y300TG	3	35
10	SW21Y460TG	1	35
10	SW22Y460TG	2	35
10	SW23Y460TG	3	35
		Toggle Y-span wires - Type 3	
		Length (m)	Safe working load (kg)
10	SW31Y300TG	1	90
10	SW32Y300TG	2	90
10	SW33Y300TG	3	90
10	SW31Y460TG	1	90
10	SW32Y460TG	2	90
10	SW33Y460TG	3	90

1 : For use with channel to create trapeze

carabiner Y-span wires



SWXXYXXXCAR

Selection charts **p. 10-15**
 Technical information **p. 35**
 Wire specifications **p. 18**

Key free release mechanism
 One fixing point per drop
 Allows for side loading
 Can be fixed at ground level
 Reduces the use of studding and channel
 Ideal for short suspensions
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385

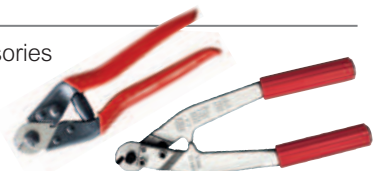
Suitable for installing :

- Steel wire cable tray
- Cable tray
- Trunking¹
- Lighting
- Busbar¹

Pack	Cat. Nos.	Carabiner Y-span wires	
		Wires supplied with corresponding mechanisms	
		Carabiner Y-span wires - Type 2	
		Length (mm)	Safe working load (kg)
10	SW21Y300CAR	1	50
10	SW22Y300CAR	2	50
10	SW23Y300CAR	3	50
10	SW21Y460CAR	1	50
10	SW22Y460CAR	2	50
10	SW23Y460CAR	3	50
		Carabiner Y-span wires - Type 3	
		Length (m)	Safe working load (kg)
10	SW31Y300CAR	1	90
10	SW32Y300CAR	2	90
10	SW33Y300CAR	3	90
10	SW31Y460CAR	1	90
10	SW32Y460CAR	2	90
10	SW33Y460CAR	3	90

1 : For use with channel to create trapeze

Tools and accessories
p. 40

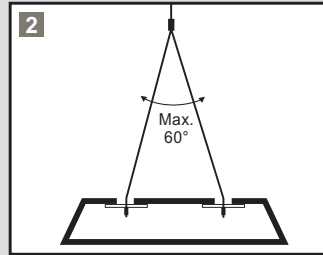
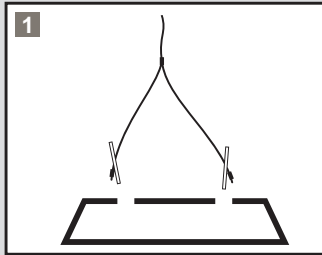


toggle and carabiner Y-span wires

technical information

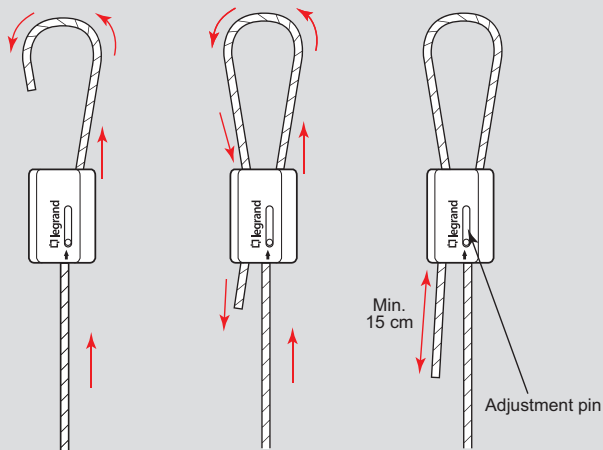
Installation – toggle Y-span wires

1. By inverting the toggle parallel to the wire it will swing through 90°. Push into the product being suspended. Ensure hole is no smaller than 6 mm and no larger than 12 mm diameter
2. Repeat on other side of the product. Span should not exceed 60°



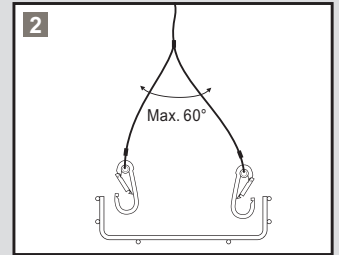
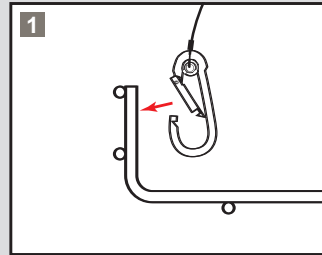
Installation – using the mechanism

- Pass the free end of the wire through the mechanism in the direction of the arrow
- Pass through or around your required suspension point and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



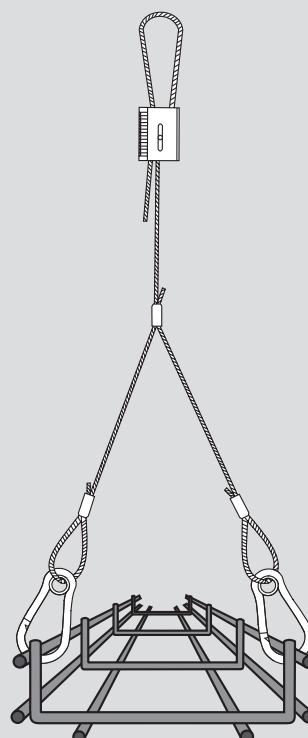
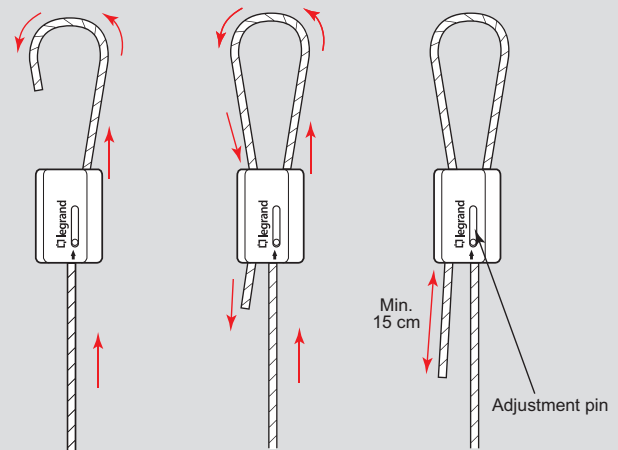
Installation – carabiner Y-span wires

1. Push carabiner clip inwards and push through/onto product device to be suspended. Spring clip will close once installed correctly
2. Snap the carabiner onto the other side the product. Span should not exceed 60°



Installation – using the mechanism

- Pass the free end of the wire through the mechanism in the direction of the arrow
- Pass through or around your required suspension point and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



trapeze systems

heavy duty and multi tier



SWTP



SWXXTPL



SWXXTPCA

Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

Key free release mechanism
 Fully lockable into slotted channel
 High tensile galvanised wire 1960 N/mm² grade 7 x 7 construction
 Wires conform to BS EN 12385

Suitable for :

- Heavy duty single and multi tier trapeze systems
- Modular systems
- Cable ladder
- Steel wire cable tray
- Trunking

Pack	Cat. Nos.	Heavy duty trapeze wires														
10	SWTP	Wires supplied with corresponding channel mechanisms Channel mechanism Mechanism only														
		Heavy duty trapeze loop ended wires For technical information on using loop ended wires (p. 20)														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>100</td></tr> <tr><td>2</td><td>100</td></tr> <tr><td>3</td><td>100</td></tr> <tr><td>4</td><td>100</td></tr> <tr><td>5</td><td>100</td></tr> <tr><td>10</td><td>100</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	100	2	100	3	100	4	100	5	100	10	100
Length (m)	Safe working load (kg)															
1	100															
2	100															
3	100															
4	100															
5	100															
10	100															
		Heavy duty trapeze concrete anchor wires For technical information on using concrete anchor wires (p. 22)														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>90</td></tr> <tr><td>2</td><td>90</td></tr> <tr><td>3</td><td>90</td></tr> <tr><td>4</td><td>90</td></tr> <tr><td>5</td><td>90</td></tr> <tr><td>10</td><td>90</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	90	2	90	3	90	4	90	5	90	10	90
Length (m)	Safe working load (kg)															
1	90															
2	90															
3	90															
4	90															
5	90															
10	90															
		Heavy duty trapeze threaded wires Supplied with M8 drop in anchor Use drop in anchor tool Cat. No. SWM8ST (p. 24) For technical information on using threaded wires (p. 24-25)														
		<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Safe working load (kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td>100</td></tr> <tr><td>2</td><td>100</td></tr> <tr><td>3</td><td>100</td></tr> <tr><td>4</td><td>100</td></tr> <tr><td>5</td><td>100</td></tr> <tr><td>10</td><td>100</td></tr> </tbody> </table>	Length (m)	Safe working load (kg)	1	100	2	100	3	100	4	100	5	100	10	100
Length (m)	Safe working load (kg)															
1	100															
2	100															
3	100															
4	100															
5	100															
10	100															

Tools and accessories
p. 40

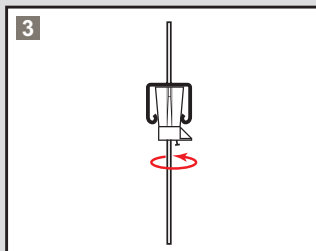
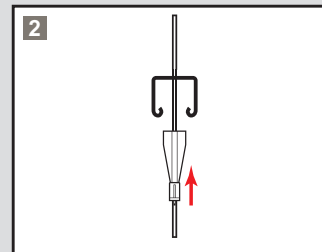
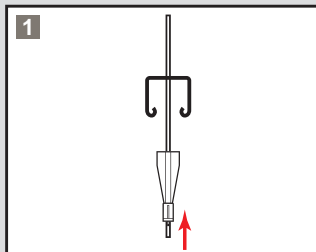


trapeze systems

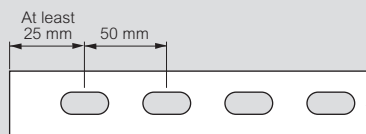
technical information

Installation

1. Loop, screw or drill your chosen fixing into or around your chosen anchor point. Position mechanism into channel and slide the wire through
2. To adjust simply release the load from the mechanism by pushing it up the wire. Then simply pull down on the release key at the same time
3. Twist channel mechanism to lock in position



When cutting channel ensure cut point is at least 25 mm from the centre of the last slot



trapeze systems

light duty and single tier



Selection charts **p. 10-15**
 Technical information **opposite**
 Wire specifications **p. 18**

Key free release mechanism
 Galvanised spring metal
 Designed for 41 x 41 and 41 x 21 channel
 Short leg to eliminate overhang
 Can be inserted into channel with slots facing either up or down

Suitable for :
 • Single tier light duty trapeze systems
 • Slotted channel

Pack	Cat. Nos.	Light duty trapeze wires
10	SWLTP	Wires supplied with corresponding channel brackets and mechanisms Light duty channel bracket Bracket only Light duty trapeze loop ended wires For technical information on using loop ended wires (p. 20)
10	SW21LTPL	Length (m) Safe working load (kg) 1 20
10	SW22LTPL	2 20
10	SW23LTPL	3 20
10	SW24LTPL	4 20
10	SW25LTPL	5 20
10	SW210LTPL	10 20
		Light duty trapeze concrete anchor wires For technical information on using concrete anchor wires (p. 22)
10	SW21LTPCA	Length (m) Safe working load (kg) 1 20
10	SW22LTPCA	2 20
10	SW23LTPCA	3 20
10	SW24LTPCA	4 20
10	SW25LTPCA	5 20
10	SW210LTPCA	10 20
		Light duty trapeze threaded wires Supplied with M6 drop in anchor Use drop in anchor tool Cat. No. SWM6ST (p. 24) For technical information on using threaded wires (p. 24-25)
10	SW21LTPTM6x45	Length (m) Safe working load (kg) 1 20
10	SW22LTPTM6x45	2 20
10	SW23LTPTM6x45	3 20
10	SW24LTPTM6x45	4 20
10	SW25LTPTM6x45	5 20
10	SW210LTPTM6x45	10 20

Tools and accessories
p. 40

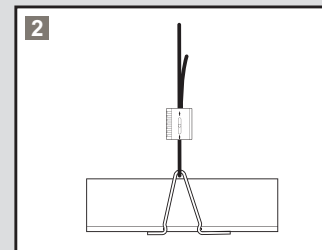
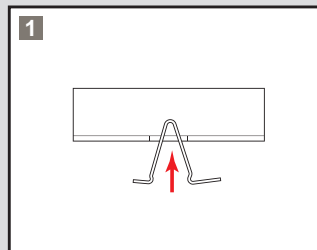


trapeze systems

technical information

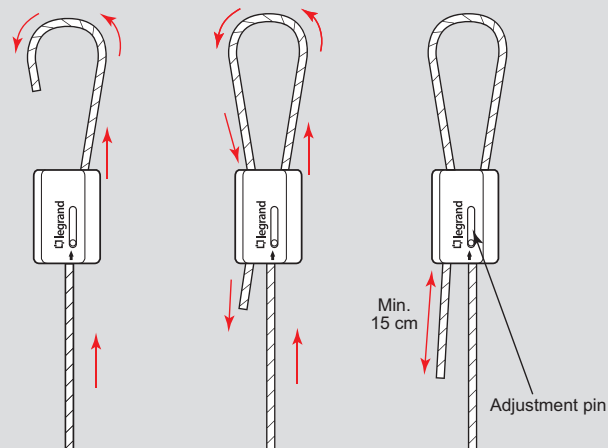
Installation

- Simply push the bracket into the channel, ensuring that the short leg is at the cut end of the length
- Completed installation

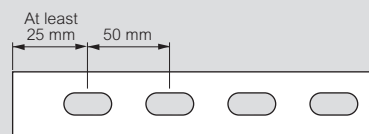


Installation – using the mechanism

- Pass the free end of the wire from the ceiling suspension through the mechanism in the direction of the arrow
- Pass the wire through the bracket and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



When cutting channel ensure cut point is at least 25 mm from the centre of the last slot



catenary systems

horizontal applications



Technical information **opposite**
Wire specifications **p. 18**

Key free release mechanism
Designed to traverse between two fixed anchor points
Safe on-site installation, no channel cutting or hot work permit required
Simple and easy to handle and transport
Supplied with two locking mechanisms
Suitable for applications where overhead fixing points are not available

Suitable for :

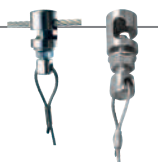
- Lighting
- Lighting track
- Busbar
- Signage
- Steel wire cable tray

Pack	Cat. Nos.	Horizontal catenary wires	
		Wires supplied with 2 corresponding mechanisms	
Catenary wires - Type 3			
		Length (m)	Safe working load (kg)
1	SW35SPAN	5	30
1	SW310SPAN	10	30
1	SW315SPAN	15	30
1	SW320SPAN	20	30
1	SW330SPAN	30	30
1	SW340SPAN	40	30
Catenary wires - Type 4			
		Length (m)	Safe working load (kg)
1	SW45SPAN	5	75
1	SW410SPAN	10	75
1	SW415SPAN	15	75
1	SW420SPAN	20	75
1	SW430SPAN	30	75
1	SW440SPAN	40	75
Catenary wires - Type 5			
		Length (m)	Safe working load (kg)
1	SW55SPAN	5	100
1	SW510SPAN	10	100
1	SW515SPAN	15	100
1	SW520SPAN	20	100
1	SW530SPAN	30	100
1	SW540SPAN	40	100

Accessories

1	SWTT1	Tensioning tool
1	SWTT1G	Tension gauge

To be used with vertical suspension **p. 39**

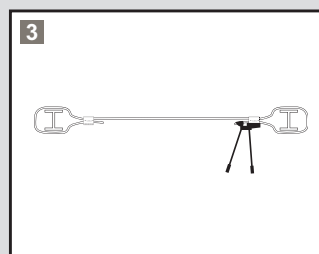
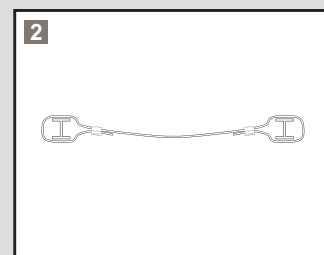
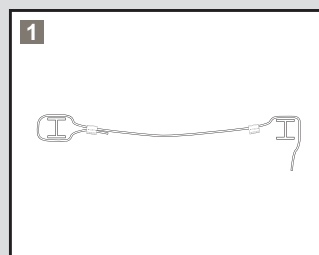


catenary systems

technical information

Installation

1. Secure each end of the catenary wire to a fixed anchor point using the mechanism supplied
2. Pass the free end of the wire through the mechanism in the direction of the arrow. Pass through or around your required suspension and back through the mechanism leaving 15 cm of wire protruding
3. Use a tensioning tool to apply tension to the wire (Cat. No. SWTT1). Always confirm engagement of the mechanism on the wire by pushing the adjustment pin in the opposite direction indicated by the arrows



Note : If a specific tension is required, use tension gauge in conjunction with tension tool

Technical information

- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin
- Ensure a distance of at least 1.6 x the height of the beam is left between the mechanism and the structure
- Do not exceed an angle of 60°



Tools and accessories **p. 40**



Can also be used with lockable mechanism **p. 16**

catenary systems

vertical applications



SWXXM6D



SWXXM8D

Technical information **opposite**
Wire specifications **p. 18**

Key free release mechanism
Able to suspend many products, even at angles
Easy adjustment to final position
Can be inverted to offer extra support to horizontal suspension
Suitable for applications where no overhead fixing points are available

Suitable for supporting :

- Lighting
- Lighting track
- Busbar
- Signage
- Electrical and data cabling
- Steel wire cable tray

Pack	Cat. Nos.	Vertical catenary wires	
		Wires supplied with corresponding mechanisms	
		Catenary wires - Type 1	
		Length (m)	Safe working load (kg)
10	SW11M6D	1	10
10	SW12M6D	2	10
10	SW13M6D	3	10
10	SW14M6D	4	10
10	SW15M6D	5	10
10	SW110M6D	10	10
10	SW11M8D	1	10
10	SW12M8D	2	10
10	SW13M8D	3	10
10	SW14M8D	4	10
10	SW15M8D	5	10
10	SW110M8D	10	10
		Catenary wires - Type 2	
		Length (m)	Safe working load (kg)
10	SW21M6D	1	35
10	SW22M6D	2	35
10	SW23M6D	3	35
10	SW24M6D	4	35
10	SW25M6D	5	35
10	SW210M6D	10	35
10	SW21M8D	1	35
10	SW22M8D	2	35
10	SW23M8D	3	35
10	SW24M8D	4	35
10	SW25M8D	5	35
10	SW210M8D	10	35

To be used with horizontal suspension **p. 38**



Tools and accessories **p. 40**

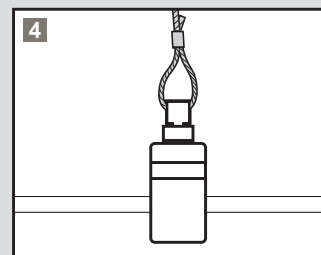
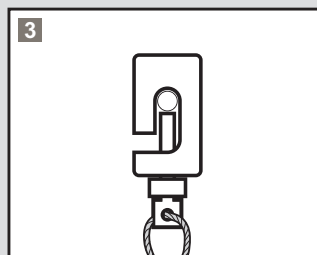
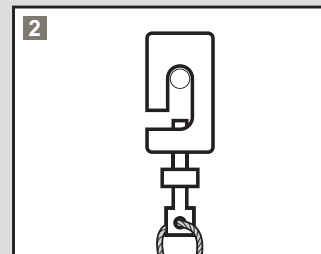
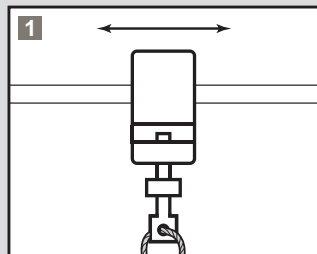


catenary systems

technical information

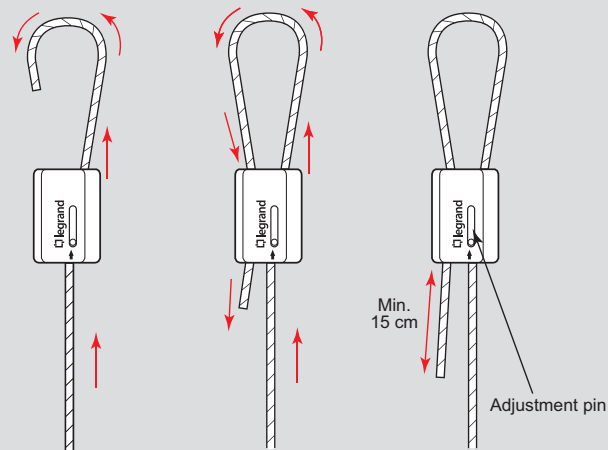
Installation

1. Place the vertical wire onto the horizontal wire and slide into place
2. Tighten the screw by hand until secure, then tighten the locking nut
3. Vertical suspension is installed
4. Vertical suspension can be inverted to offer extra support to horizontal suspension



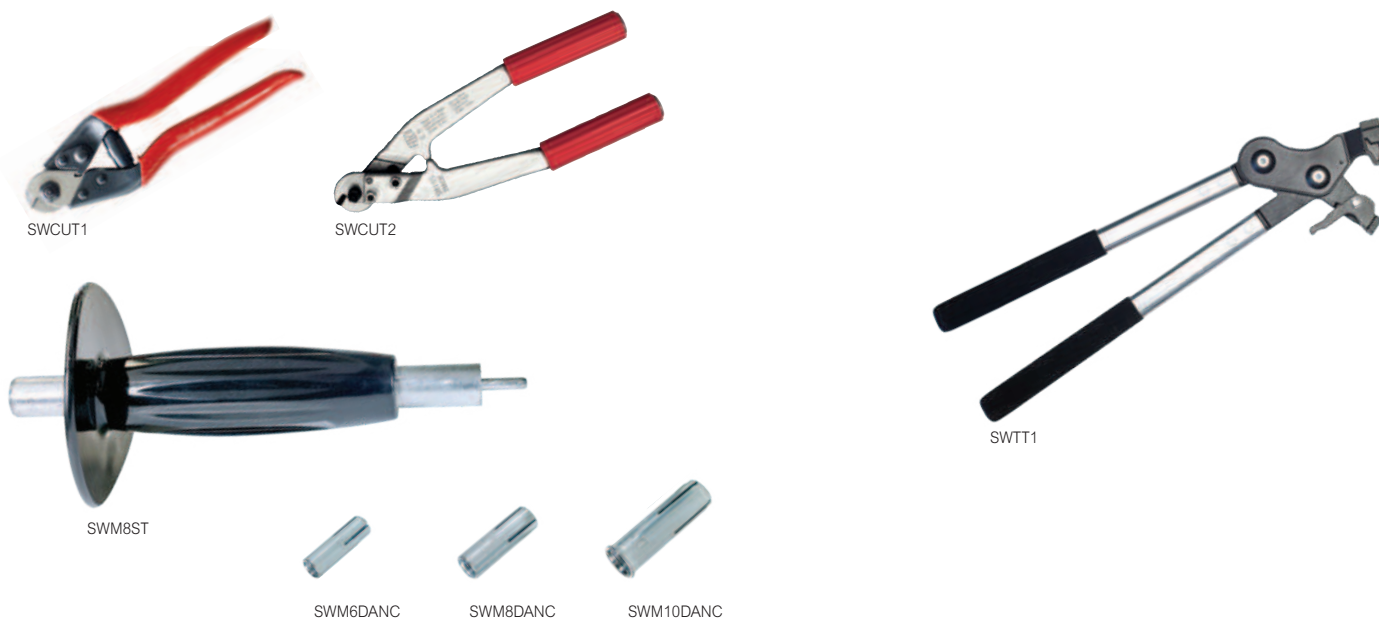
Installation – using the mechanism

- Pass through or around your required suspension and back through the mechanism leaving 15 cm of wire protruding
- Always confirm engagement of the mechanism on the wire by pushing the pin in the opposite direction indicated by the arrows
- To adjust, remove the load and pull the free wire slightly to disengage the mechanism then release using the adjustment pin



Note :

Vertical wires with an M6 bolt should be used with Type 3 and 4 horizontal wires
Vertical wires with an M8 bolt should be used with Type 5 horizontal wires



Pack	Cat. Nos.	Heavy duty wire cutters
1	SWCUT1	Suitable for 1 to 4 mm wires (wire Types 1 - 3)
1	SWCUT2	Suitable for 4 to 6 mm wires (wire Types 4 and 5)

Pack	Cat. Nos.	Drop in anchor tools
1	SWM6ST	M6 drop in anchor tool
1	SWM8ST	M8 drop in anchor tool
1	SWM10ST	M10 drop in anchor tool

Pack	Cat. Nos.	Drop in anchors
		For technical details see p. 26
10	SWM6DANC	M6 drop in anchor
10	SWM8DANC	M8 drop in anchor
10	SWM10DANC	M10 drop in anchor

Pack	Cat. Nos.	Accessories for catenary systems
1	SWTT1	Tensioning tool
1	SWTT1G	Tension gauge

Technical information

Seismic bracing

Seismic bracing systems

Designed and engineered to brace and secure non-structural equipment and services within a building or structure to minimise damage to suspended services in the event of an earthquake or where other movement occurs

All Swiftwire seismic bracing systems must be designed by a qualified seismic engineer

Advantages :

- Complete pre-engineered systems
- No additional swaging required on site
- No tools required

■ Kits and identification

Swiftwire seismic bracing systems are available in kit form, comprising :

- Pre-determined length of wire with a seismic bracket end
- Seismic retrofit bracket for rod
- Supplementary PVC sleeve

Types of systems available :

Traverse

- 2 m seismic kit - Type 3
- 3 m seismic kit - Type 3
- 5 m seismic kit - Type 3
- 2 m seismic kit - Type 4
- 3 m seismic kit - Type 4
- 5 m seismic kit - Type 4

Longitudinal

- 2 m seismic kit - Type 3
- 3 m seismic kit - Type 3
- 5 m seismic kit - Type 3
- 2 m seismic kit - Type 4
- 3 m seismic kit - Type 4
- 5 m seismic kit - Type 4

■ Difference between structural and non-structural components

Structural components are made up of roofs, floors, beams, columns, foundations, walls, whereas non-structural components are architectural elements, mechanical and electrical equipment and supplies and other building furniture

Non-structural components are very important in the correct functioning of a building in the aftermath of an earthquake

Bracing these systems ensures higher safety levels for the occupants of the building

■ Seismic calculations

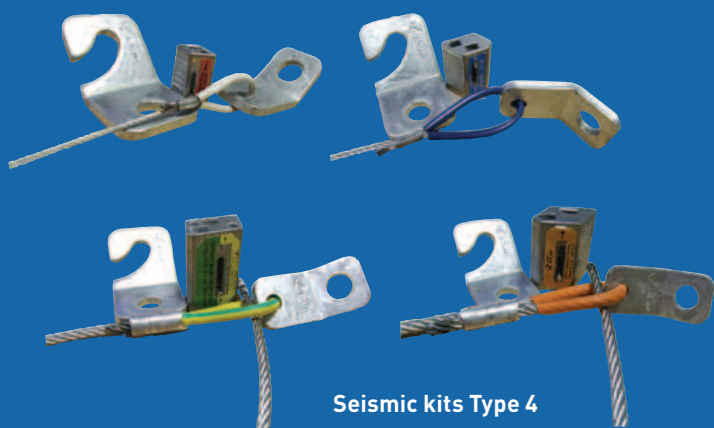
When undertaking a seismic bracing project, critical information is required

Information needed :

- Project location/physical address, type of occupation (hospital, school, general office building, etc.) seismic specification, building code and year
- Drawings of systems to be braced, if not available yet, then a good description or sketch of what will be done
- Location in building (basement, penthouse, roof, etc.)
- Type of structure brace will be attached to :
Steel, wood, bar joist, concrete with strength and type (3000 psi lightweight, 3000 psi on metal deck, MPA strengths etc.)
- Mechanical, plumbing, fire protection and other piping :
Types of pipes used to each service type (steel, copper, cast iron, etc.)
Method of connection (welded, pressed, grooved couplings, etc.)
Insulated or non-insulated
- Electrical :
Types of conduit (galvanised, rigid, electrical metallic tubing, etc.)
For conduit racks, size of conduits and type (quantity of each size on the rack to be calculated). Usually figure a few different sizes of racks from lightweight to heavy
Types of sizes of cable tray, basket tray, ladder tray, busbar (weight per metre needed expected on tray or max. amount required)
- **Note** : maximum amount tray can support is based on supports and spacing
- Suspended equipment :
Type of equipment, equipment schedule, operating weight, centre of gravity (if available), cut sheet with dimensions

You must employ a qualified seismic engineer to provide a report and design

Seismic kits Type 3



Seismic kits Type 4

■ Seismic wire safe working loads (SWL)

Wire Ø	SWL at 45° angle Safety factor of 5 (kg)
2.0 mm	35
1/8"	80
3/16"	161

Please contact us on **+44 (0) 370 608 9020** to specify system requirements

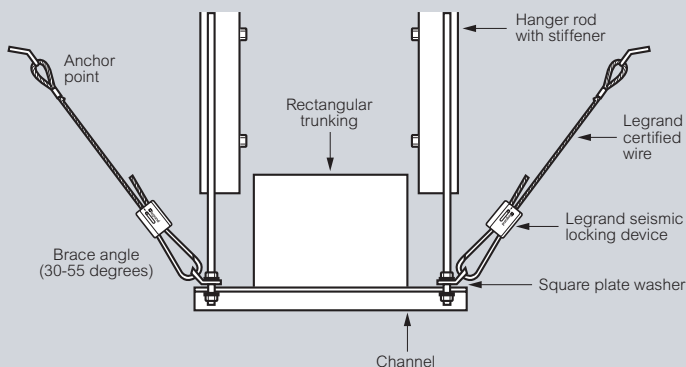
Bracing methods

■ Bracing methods

There are 2 different types of bracing methods :

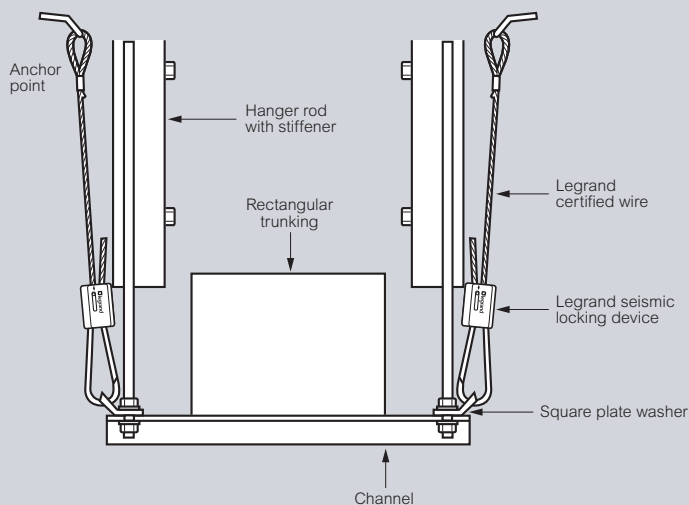
- Transverse bracing
- Longitudinal bracing

■ Transverse bracing



Transverse bracing restrains seismic forces perpendicular to a run of braced cable management, piping or ductwork etc. During an earthquake, a vertical force may be generated, therefore rod stiffeners are required to ensure the rod does not buckle

■ Longitudinal bracing



Longitudinal bracing restrains seismic forces parallel to a run of braced cable management, piping or ductwork etc. During an earthquake, a vertical force may be generated, therefore rod stiffeners are required to ensure the rod does not buckle

■ Maximum brace spacing limits for longitudinal bracing

Material type	Piping diameter	Spacing
Ductile	Minimum 63 mm	24 m
Ductile	Minimum 63 mm	18 m
Non-ductile	-	12 m

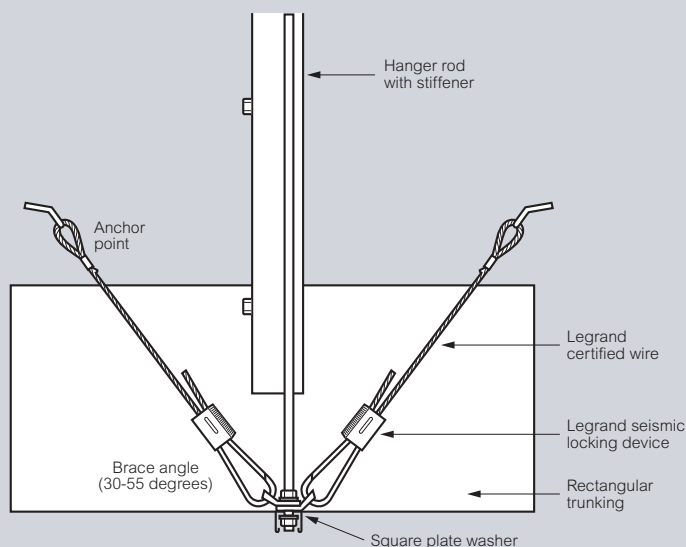
SB-FAZII ETA approved anchor or seismic equivalent to be used

Please contact us on **+44 (0) 370 608 9020** to specify system requirements

■ Maximum brace spacing limits for tranverse bracing

Material type	Piping diameter	Spacing
Ductile	Minimum 63 mm	12 m
Ductile	Minimum 63 mm	9 m
Non-ductile	-	6 m

SB-FAZII ETA approved anchor or seismic equivalent to be used



SWIFTWIRE

WIRE SUSPENSION SYSTEMS

Ideal for suspending
Electrak Buscom
and Zucchini busbar



Legrand's innovative **Swiftwire** range features products specifically designed for speed and ease of use. The range is based around a simple yet highly efficient locking mechanism which, together with high grade galvanised wire, can provide a wealth of versatility to your next installation.



CONTACT DETAILS

United Kingdom

Great King Street North,
Birmingham, B19 2LF

Customer Services:

Tel: +44 (0) 345 605 4333 Fax: +44 (0) 345 605 4334
E-mail: legrand.sales@legrand.co.uk

Quotations and Technical Support:

Tel: +44 (0) 370 608 9020 Fax: +44 (0) 345 605 5334
E-mail: uk-cmsales@legrand.co.uk

Republic of Ireland:

Tel: 01 295 9673 Fax: 01 295 4671
E-mail: legrand.sales@legrand.co.uk



FOLLOW US AT

- @ www.legrand.co.uk
www.legrand.ie
-  www.youtube.com/legrandtvuk
-  www.voltimum.co.uk
www.voltimum.ie
-  www.twitter.com/legranduk
-  www.linkedin.com/company/legranduk



Head office (UK and Ireland):

Legrand Electric Limited
Great King Street North, Birmingham, B19 2LF
Tel: +44 (0) 370 608 9000 Fax: +44 (0) 370 608 9004
Website: www.legrand.co.uk

In accordance with its policy of continuous improvement, the Company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in this catalogue are for guidance and cannot be held binding on the Company. All contents and design presentation included in this publication are © Legrand Electric Limited. All rights reserved. 2018



This document is printed on sustainably sourced paper. Please recycle.

The Legrand logo is a registered trademark of the Legrand group of companies.