

Swifts® SW

strength, speed
and flexibility



STEEL WIRE CABLE TRAY
/ PRODUCT GUIDE



 **legrand®**

www.legrand.co.uk

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Global vision... 21st Century solutions

Established in the UK since 1972, Legrand is a world leading manufacturer of products and systems for electrical installations and information networks in residential and commercial buildings and in industry.

02



03

Contents

Why choose Legrand?

In a word, confidence. Legrand is a world leader in its field, with offices and subsidiaries in more than 60 countries and sales in more than 160 countries. Globally, Legrand holds 18% of the wiring devices market and 15% of the cable management market.

Innovation for progress

Legrand invests heavily in research and development. It has nearly 1,800 people around the world inventing, designing, testing and validating new ideas.

By actively focussing on new product development, Legrand is able to launch new ranges that facilitate installation for the contractor and simplify usage for the end user.

Sustainable development

Legrand relies heavily on its core values and on the expertise of its teams to ensure profitable, long-lasting and responsible growth... combining long-term performance with environmental conservation and the valuing of human resources.

Swifts SW... new range, familiar name

The Swifts name is synonymous with quality for its market-leading cable ladder and cable tray systems. Building on this success, the Swifts SW range of steel wire cable tray is totally new to the UK market and completely replaces the previous Swifts F31 range.

A range to suit any environment

Swifts SW is available in three different finishes, a choice which makes it suitable for any installation :

Electroplated zinc :

for all internal applications

Hot dip galvanised :

for general external environments

Stainless steel :

for the most demanding environments (such as food and petro-chemical)

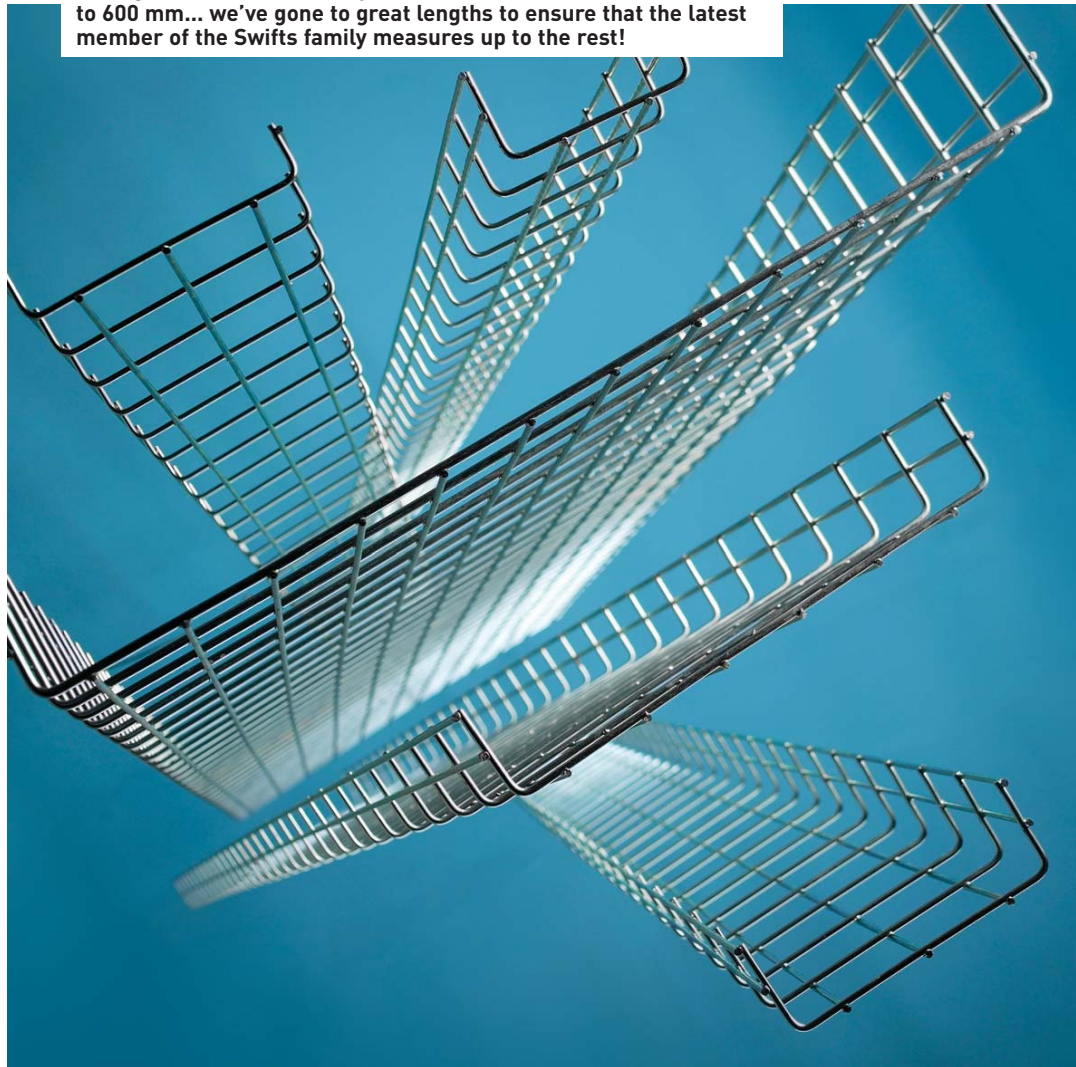


Installation features	4
Product selector	8
Tray lengths, dividers and covers	10
Couplers, fixings and supports	12
Brackets	14
Ancillary items	16
Finishes and loading	17
EMC	19
Installation guide	20
Technical data	24

Innovation from the UK's leading manufacturer of cable management solutions

Swifts® SW... going to great lengths

Swifts SW is supplied in straight lengths from which any installation can be formed without the need for additional fittings. All lengths have smooth edges that offer safe handling and prevent damage to cables. Three depths, three finishes, and widths from 50 to 600 mm... we've gone to great lengths to ensure that the latest member of the Swifts family measures up to the rest!



Installation example 1 :
Large radius bend with Faslock couplers and additional supports



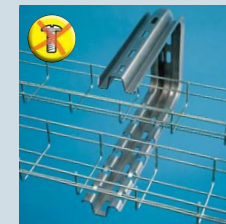
Installation example 2 :
Tee junction, plus two parallel runs for power and data cabling



Profile trapeze hanger with slot and tab assembly (slot together and bend tabs to secure SW tray)



Faslock couplers used to quickly secure bends without the need for clamping



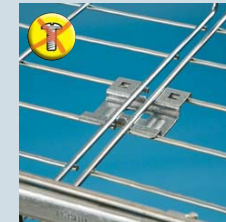
Profile roof cantilever arm with slot and tab assembly



Tee junction created using fixing kits (Turbo A) with captive nuts and bolts for quicker installation



Precic couplers used to create strong joints and maintain earth bonding when joining lengths



Base coupler with clip-on assembly for quick installation



Small central hanger with slot and tab assembly



Large central hanger to enable dual runs of power and data



Slot and tab design enables SW tray to be secured directly to fittings without the need for nuts and bolts

Swifts® SW... support for all

Swifts SW incorporates a vast range of supports for walls, floors and ceilings that can accommodate SW tray without the need for fixings. Slot together assembly and folding tabs create and secure an installation in an instant... the ultimate in strength, speed and flexibility.



Installation example 3 :
Riser, pendant supports and vertical wall mounting



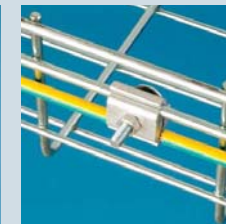
Installation example 4 :
Swiftrack channel support framework and earth bonding



Vertical wall bracket to provide strong support for all sizes of SW tray



Slot and tab pendant mounting plate for quick assembly and strong support



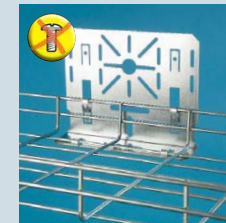
Earth conductor clamp to provide effective earth bonding



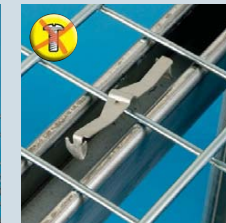
Base coupler mounted anywhere along SW lengths to suspend luminaires



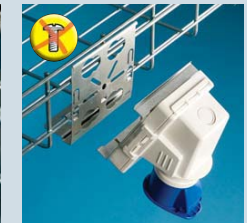
Cantilever arm with slot and tab assembly



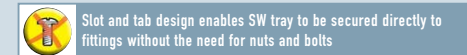
Extra large mounting plate designed to fit large accessories



Fastrut fixing clips used to secure SW tray to Swiftrack channel



Side mounting plates to enable quick fixing of accessories



Swifts® SW steel wire cable tray

Width (mm)	TRAY LENGTHS									COVERS			DIVIDERS			
	28 mm depth electroplated zinc	28 mm depth hot dip galvanised	28 mm depth stainless steel	52 mm depth electroplated zinc	52 mm depth hot dip galvanised	52 mm depth stainless steel	102 mm depth electroplated zinc	102 mm depth hot dip galvanised	102 mm depth stainless steel	Covers 3 x 1 m electroplated zinc	Covers 3 x 1 m hot dip galvanised	Covers 3 x 1 m stainless steel	Depth (mm)	Dividers – 3 m pre-galvanised	Dividers – 3 m hot dip galvanised	Dividers – 3 m stainless steel
50	CM540050	CM542050	CM000014	CM541050	CM543050	CM000064	–	–	–	CM629050	CM629053	CM629054	28	CM923010	CM923013	CM923014
100	CM540100	CM542100	CM000024	CM541100	CM543100	CM000074	CM746621	CM746623	CM000084	CM629100	CM629103	CM629104	52	CM923020	CM923023	CM923024
150	CM540150	CM542150	CM000034	CM541150	CM543150	CM000084	–	–	–	CM629150	CM629153	CM629154	102	CM923040	CM923043	CM923044
200	CM540200	CM542200	CM000044	CM541200	CM543200	CM000094	CM746641	CM746643	CM000094	CM629200	CM629203	CM629204				
300	CM540300	CM542300	CM000054	CM541300	CM543300	CM000104	CM746661	CM746663	CM000094	CM629300	CM629303	CM629304				
400	–	–	–	CM541400	CM543400	CM000204	CM746681	CM746683	CM000094	CM629400	CM629403	CM629404				
450	–	–	–	CM541450	CM543450	CM000254	–	–	–	CM629450	CM629453	CM629454				
500	–	–	–	CM541500	CM543500	CM000304	CM746701	CM746703	CM000094	CM629500	CM629503	CM629504				
600	–	–	–	CM541600	CM543600	CM000404	CM746721	–	–	CM629600	CM629603	CM629604				

DIVIDER CONNECTORS		
Pre-galvanised	Stainless steel	Dacromet
CM923050	CM923054	CM923057

Finish	FIXINGS AND FASTENINGS											FIXINGS AND FASTENINGS														
	Preclic couplers	EZR couplers	Joint strips 275 mm	Faslock S	Faslock XL	Luminaire support (base coupler)	Nuts and coach bolts	Hold down clamp	Turbo kits (A)	Turbo kits (B)	Fixing kits (A)	Fixing kits (B)	Channel strut clip	Corner assembly ⁽²⁾ (28 mm)	Universal mounting plates	Base fixing plates	Universal base fixing plates	Stand-off brackets	Floor mount brackets	Channel fixing plates	Vertical wall brackets	Central hangers ⁽²⁾ (50 mm)	Central hangers ⁽²⁾ (200 mm)	Suspension plates	Suspension hooks	
Electroplated zinc	–	–	CM558221	–	–	–	CM801011	CM558051	CM558071	CM558061	CM558081	CM558091	–	CM840101	–	–	–	–	–	–	–	–	–	–	–	–
Hot dip galvanised	CM558103	CM558123	CM558223	–	–	–	–	–	–	–	–	–	–	–	CM586063	CM586043	–	CM586173	CM586083	–	CM586073	CM586143	–	–	–	CM586023
Pre-galvanised	CM558100	CM558120	–	CM558340	CM558320	CM558410	–	–	–	–	–	–	–	–	CM586060	CM586040	CM586180	CM586170	CM586080	CM586190	CM586070	CM586140	CM586200	CM586031	CM586020	
Stainless steel	CM558104	CM558124	CM558224	CM558344	CM558324	CM558414	CM801014	CM558054	–	–	CM558084	CM558094	CM599007	–	CM586064	CM586044	CM586184	CM586174	CM586084	CM586194	CM586074	CM586144	–	–	–	CM586024
Dacromet	–	–	–	CM558347	CM558327	CM558417	CM801017	CM558053	CM558077	CM558067	CM558087	CM558097	–	–	–	–	CM586183	–	–	CM586197	–	–	–	–	–	CM586037

For tray widths (mm)	PROFILE BRACKETS									
	Profile cantilever arms pre-galvanised	Profile cantilever arms hot dip galvanised	Profile cantilever arms stainless steel	Profile roof cantilever arms pre-galvanised	Profile roof cantilever arms hot dip galvanised	Profile roof cantilever arms stainless steel	Profile trapeze hangers pre-galvanised	Profile trapeze hangers hot dip galvanised	Profile trapeze hangers stainless steel	Profile trapeze hangers stainless steel
50	–	–	–	–	–	–	CM013150	CM013153	CM013154	–
100	CM556100	CM556103	CM556104	CM556300	CM556303	CM556304	CM013200	CM013203	CM013204	–
150	CM556110	CM556113	CM556114	CM556310	CM556313	CM556314	CM013300	CM013303	CM013304	–
200	CM556120	CM556123	CM556124	CM556320	CM556323	CM556324	CM013300	CM013303	CM013304	–
300	CM556130	CM556133	CM556134	CM556330	CM556333	–	CM013400	CM013403	CM013404	–
400	CM556140	CM556143	–	CM556340	CM556343	–	CM013500	CM013503	CM013504	–
450	CM556150	CM556153	–	CM556350	CM556353	–	CM013600	CM013603	CM013604	–
500	–	–	–	–	–	–	CM013600	CM013603	CM013604	–
1 000 ⁽¹⁾	–	–	–	–	–	–	CM013010	CM013013	CM013014	–
3 000 ⁽¹⁾	–	–	–	–	–	–	CM013030	CM013033	CM013034	–

Pendant lengths (mm)	PENDANTS		
	Profile pendant pre-galvanised	Profile pendant hot dip galvanised	Pendant mounting plate (for all lengths)
300	CM561310	CM561313	CM561080
600	CM567610	CM567613	CM561080
1 000	CM561090	CM561093	CM561080
2 000	CM561010	CM561013	CM561080
3 000	CM561020	CM561023	CM561080

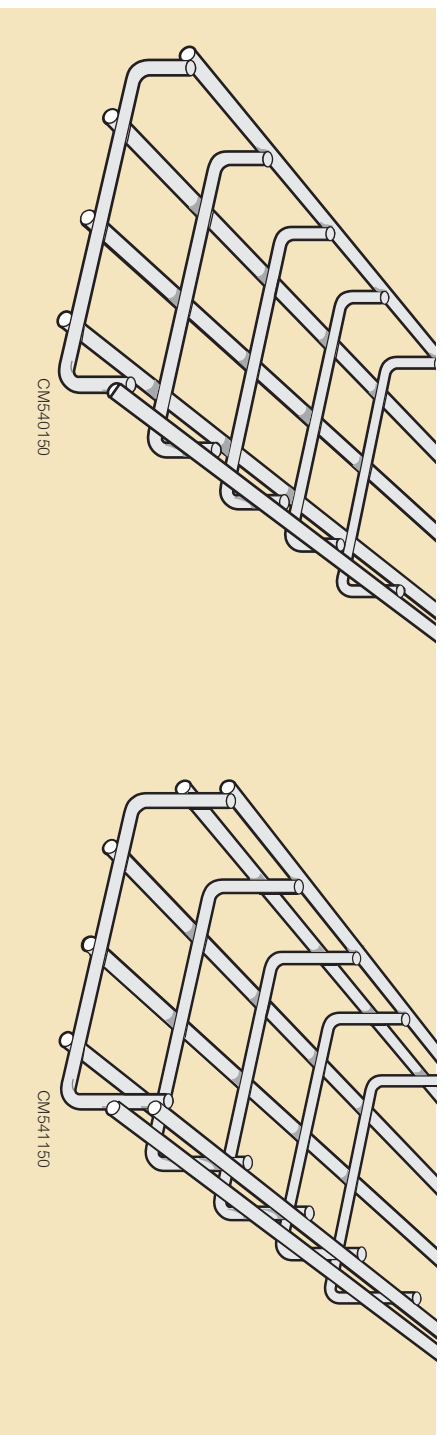
For tray widths (mm)	STANDARD BRACKETS			
	Cantilever arms pre-galvanised	Cantilever arms hot dip galvanised	Cantilever arms stainless steel	Cantilever arms for pendant mounting
50	CM557400	CM557403	CM557404	–
100	CM557410	CM557413	CM557414	CM557920
150	CM557420	CM557423	CM557424	CM557930
200	CM557430	CM557433	CM557434	CM557940
300	CM557440	CM557443	CM557444	CM557950
400	CM557450	CM557453	CM557454	–
500	CM557460	CM557463	CM557464	–
600	CM557470	CM557473	CM557474	–

Finish	ANCILLARY ITEMS								
	Earth terminal supports	Profile strut back plates	Universal conduit take-off plates	Conduit take-off plate – side	Switch box take-off plates	Terminal box fixing plate	Universal side plate – large	Universal side plate – small	Cable dropout plates
Hot dip galvanised	CM585093	CM557803	–	–	–	–	CM586133	CM586063	–
Pre-galvanised	CM585090	CM557800	CM585410	CM585110	CM585130	CM585120	CM586130	CM586060	CM585160
Stainless steel	CM585094	CM557804	–	CM585114	CM585134	–	CM586134	CM586064	CM585164
Dacromet	–	–	CM585417	–	–	–	–	–	CM585167

ANCILLARY ITEMS (continued)	
Earth connector clamp – copper ⁽²⁾	CM585387
Earth cable clamp – aluminium	CM585327
Earth cable support	CM585080
Lighting bracket 50 mm	CM585180
Lighting bracket 100 mm	CM585190
Croppers	CM559507

For tray widths (mm)	MULTIFIX BASE PLATES		
	Pre-galvanised	Hot dip galvanised	Stainless steel
100	CM585140	CM585143	CM585144
150	CM585150	CM585153	CM585154

(1) 1 000 and 3 000 refers to hanger widths which can be cut to size on site
 (2) For other sizes (see p. 13)
 (3) For other sizes (see p. 16)



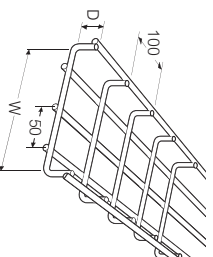
Dimensions and technical information (p. 17-27)

Tray lengths – 3 m

Pack	Cat. Nos.
1	CM540050
1	CM540100
1	CM540150
1	CM540200
1	CM540300
1	CM542050
1	CM542100
1	CM542150
1	CM542200
1	CM542300
1	CM000014
1	CM000024
1	CM000034
1	CM000044
1	CM000054

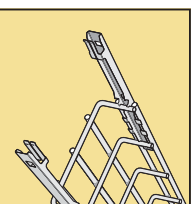
28 mm tray

Internal width (W) (mm)	Internal depth (D) (mm)
50	28
100	28
150	28
200	28
300	28
50	28
100	28
150	28
200	28
300	28
50	28
100	28
150	28
200	28
300	28



For the complete selection of couplers and fixings

see p. 12-13

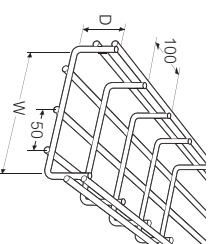


Tray lengths – 3 m (continued)

Pack	Cat. Nos.
1	CM541050
1	CM541100
1	CM541150
1	CM541200
1	CM541300
1	CM541400
1	CM541450
1	CM541500
1	CM541600
1	CM543050
1	CM543100
1	CM543150
1	CM543200
1	CM543300
1	CM543400
1	CM543450
1	CM543500
1	CM543600
1	CM000064
1	CM000074
1	CM000084
1	CM000094
1	CM000104
1	CM000204
1	CM000254
1	CM000304
1	CM000404

52 mm tray

Internal width (W) (mm)	Internal depth (D) (mm)
50	52
100	52
150	52
200	52
300	52
400	52
450	52
500	52
600	52
50	52
100	52
150	52
200	52
300	52
400	52
450	52
500	52
600	52

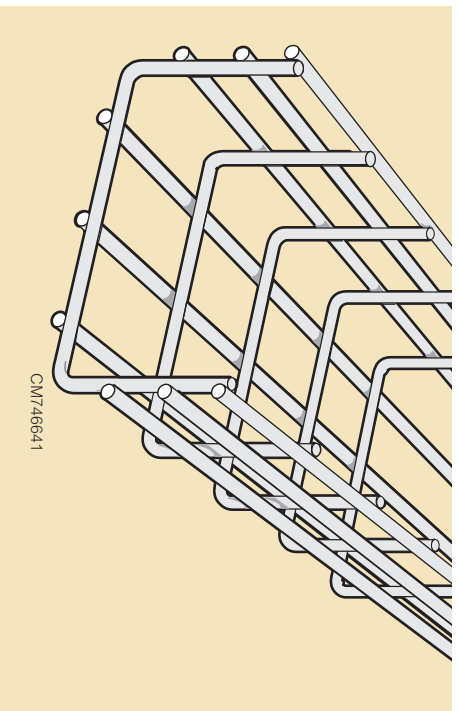


Tray depth	Coupling options (straight lengths)	Quantity required per joint (for width as shown)									
		50	100	150	200	300	400	450	500	600	
28 mm	Predic couplers	–	–	–	–	–	–	–	–	–	–
	EZR couplers	2	2	2	3	3	–	–	–	–	
	275 mm joint strips + fixing kits (B or turbo B)	2	2	2	3	3	–	–	–	–	
	Fixing kits (A or turbo A)	2	2	3	3	4	–	–	–	–	
	Predic couplers	2	2	2	2	3	4	4	4	5	
	EZR couplers	2	2	2	2	3	3	4	4	5	
52 mm	275 mm joint strips + fixing kits (B or turbo B)	2	2	2	2	3	3	4	4	5	
	Fixing kits (A or turbo A)	2	2	3	3	4	4	4	4	5	
	Predic couplers	2	2	–	2	4	–	–	–	5	
	EZR couplers	–	3	–	2	4	5	5	5	5	
	275 mm joint strips + fixing kits (B or turbo B)	–	3	–	3	3	3	–	–	5	
	Fixing kits (A or turbo A)	–	3	–	3	4	4	–	–	5	
102 mm	275 mm joint strips + fixing kits (B or turbo B)	–	–	–	–	–	–	–	–	–	
	Fixing kits (A or turbo A)	–	3	–	3	4	5	5	5	5	

Note : The first two couplings are always made on each side of the tray. Where more than two couplings are required, couplers and fixing strips fitted to the base of the tray can be substituted by a base coupler (luminaire support) see p. 12

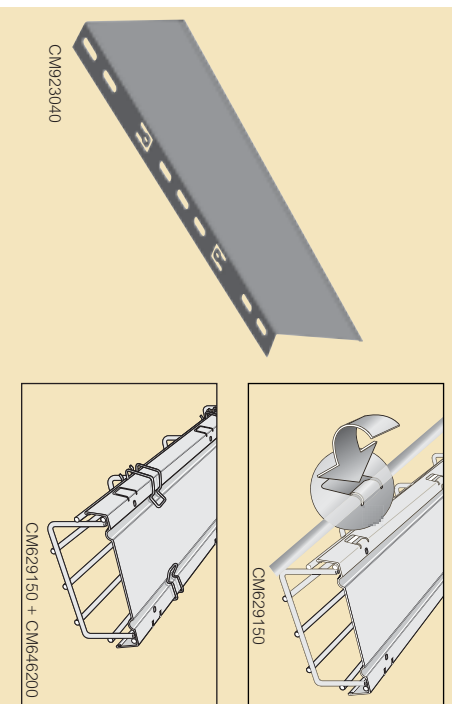
Swifts® SW steel wire cable tray

tray lengths (continued) and ancillary items



Swifts® SW steel wire cable tray

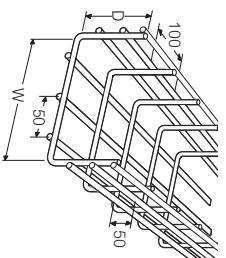
ancillary items (continued)



Dimensions and technical information (p. 17-27)

Tray lengths – 3 m (continued)

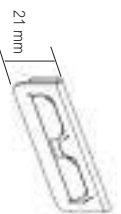
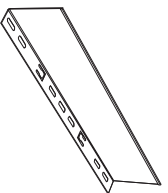
Pack	Cat. Nos.	102 mm tray	
		Internal width (W) (mm)	Internal depth (D) (mm)
1	CM746621	EZ	102
1	CM746641	100	102
1	CM746661	200	102
1	CM746681	300	102
1	CM746701	400	102
1	CM746721	500	102
1	CM746741	600	102
1	CM746623	100	102
1	CM746643	200	102
1	CM746663	300	102
1	CM746683	400	102
1	CM746703	500	102
1	CM000894	100	102
1	CM000914	200	102
1	CM000924	300	102
1	CM000934	400	102
1	CM000944	500	102



Ancillary items

Dividers – 3 m

	GS		
1	CM923010	For tray depth 28 mm	
1	CM923020	For tray depth 52 mm	
1	CM923040	For tray depth 102 mm	
1	CM923013	For tray depth 28 mm	GC
1	CM923023	For tray depth 52 mm	
1	CM923043	For tray depth 102 mm	
1	CM923014	For tray depth 28 mm	SS
1	CM923024	For tray depth 52 mm	
1	CM923044	For tray depth 102 mm	
1	CM923050	For tray depth 28 mm	DC
1	CM923057	For tray depth 52 mm	
1	CM923054	For tray depth 102 mm	SS



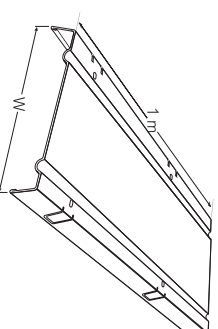
Divider connectors
Universal connector for all divider depths

Ancillary items (continued)

Covers

Supplied in packs of 3 x 1 m
Can be fitted directly with integral tabs or alternatively with optional clips below

Pack	Cat. Nos.	
1	CM629050	GS
1	CM629100	100
1	CM629150	150
1	CM629200	200
1	CM629300	300
1	CM629400	400
1	CM629450	450
1	CM629500	500
1	CM629600	600
1	CM629053	GC
1	CM629103	100
1	CM629153	150
1	CM629203	200
1	CM629303	300
1	CM629403	400
1	CM629453	450
1	CM629503	500
1	CM629603	600
1	CM629054	SS
1	CM629104	100
1	CM629154	150
1	CM629204	200
1	CM629304	300
1	CM629404	400
1	CM629454	450
1	CM629504	500
1	CM629604	600
1	CM646220	GS
1	CM646200	For tray depth 52 and 102 mm
1	CM646224	SS
1	CM646204	For tray depth 28 mm



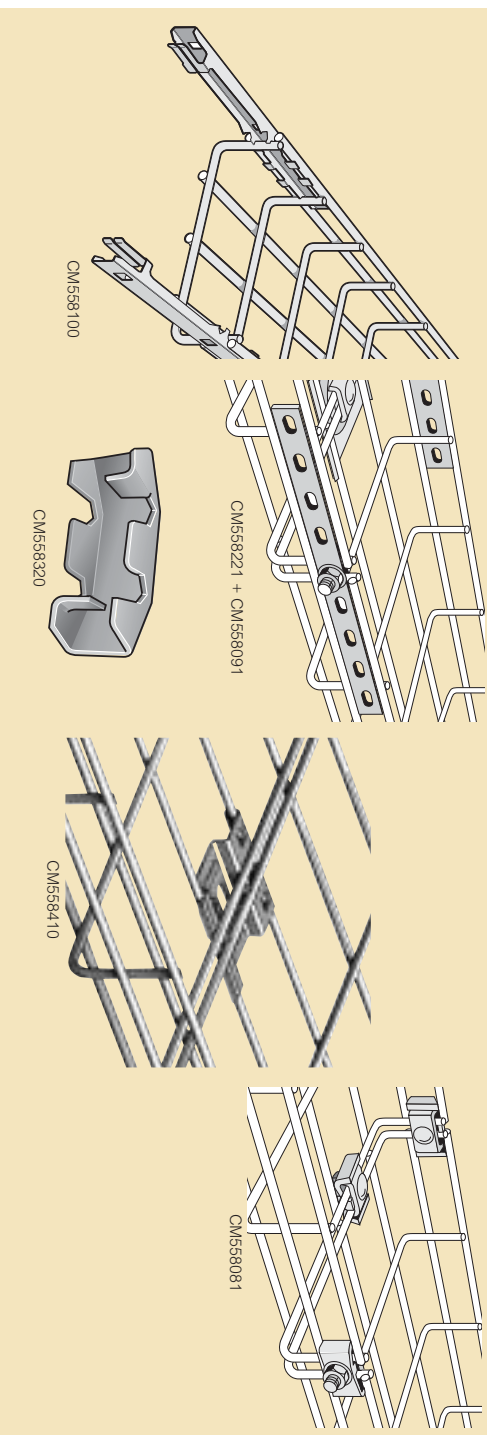
Clips
Supplied in a pack of 25

For tray depth 28 mm
For tray depth 52 and 102 mm

For tray depth 28 mm
For tray depth 52 and 102 mm

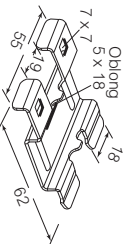
FINISHES :

- EZ Electroplated zinc
- GC Hot dip galvanised after manufacture to BS EN ISO 1461 (formerly BS729)
- GS Pre-galvanised steel to BS EN 10327 : Grade DX51D
- SS Stainless steel to BS EN 10088 : Number 1-4401 (equivalent to 316L)
- DC Dacromet

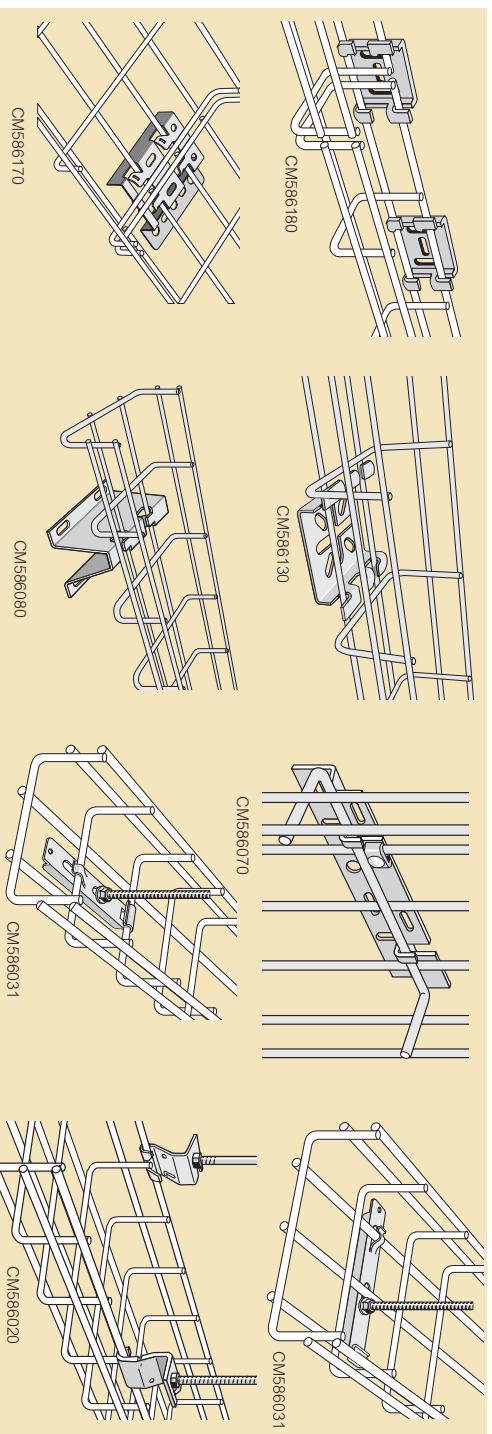


Dimensions and technical information (p. 22-23)

Pack	Cat. Nos.	Pack	Cat. Nos.
Couplers			
Precic couplers			
1	GS CM558100	1	EZ CM801011
	Supplied singly		Supplied in packs of 100
1	GC CM558103	1	DC CM801017
	Supplied singly		M6 x 20
1	SS CM558104	1	SS CM801014
	Supplied singly		M6 x 20
EZR couplers			
Note : quantities of 50 or more are supplied with fixing tool CM558110			
1	GS CM558120	1	EZ CM558051
	Supplied singly		Supplied in packs of 25
1	GC CM558123	1	DC CM558053
	Supplied singly		Supplied in packs of 25
1	SS CM558124	1	SS CM558054
	Supplied singly		Supplied in packs of 25
EZR couplers fixing tool			
1	CM558110		Fixing tool for EZR
Joint strips			
1	EZ CM558221	1	EZ CM558071
	275 mm – supplied in packs of 25		Supplied in packs of 50
1	GC CM558201	1	DC CM558077
	1100 mm – supplied in packs of 10		Supplied in packs of 50
1	GC CM558223	1	EZ CM558061
	275 mm – supplied in packs of 25		Kits comprise small clamp plate with integrated bolt and M6 nut
1	SS CM558203	1	DC CM558067
	1100 mm – supplied in packs of 10		Supplied in packs of 50
1	CM558224	1	EZ CM558081
	275 mm – supplied in packs of 25		Supplied in packs of 50
1	CM558204	1	DC CM558087
	1100 mm – supplied in packs of 10		Supplied in packs of 50
Faslock			
Supplied in packs of 25			
1	GS CM558340	1	DC CM558087
	S up to 200 mm widths		Supplied in packs of 50
1	CM558320	1	SS CM558084
	XL 300 mm widths and above		Supplied in packs of 50
1	DC CM558347	1	EZ CM558091
	S up to 200 mm widths		Supplied in packs of 50
1	CM558327	1	DC CM558097
	XL 300 mm widths and above		Supplied in packs of 50
1	SS CM558344	1	SS CM558094
	S up to 200 mm widths		Supplied in packs of 50
1	CM558324	1	DC CM559007
	XL 300 mm widths and above		Supplied in packs of 50
Luminaire support			
Can also be used as a base coupler			
1	GS CM558410	1	DC CM558094
	Oblong		Supplied in packs of 50
1	DC CM558417	1	DC CM559007
	Can also be used as a base coupler		Supplied in packs of 50
1	SS CM558414	1	DC CM559007
	Can also be used as a base coupler		Supplied in packs of 50
Nuts and coach bolts			
Supplied in packs of 100			
Fixings			
Hold down clamp			
Supplied in packs of 25			
Turbo kits A			
Kits comprise large clamp plate with integrated nut and small clamp plate with integrated bolt			
Supplied in packs of 50			
Turbo kits B			
Kits comprise small clamp plate with integrated bolt and M6 nut			
Supplied in packs of 50			
Fixing kits A			
Kits comprise large clamp plate, small clamp plate, M6 nut and M6 x 20 coach bolt			
Supplied in packs of 50			
Fixing kits B			
Kits comprise small clamp plate, M6 nut and M6 x 20 coach bolt			
Supplied in packs of 50			
Channel strut clip			
Supplied in packs of 50			



Swifts® SW steel wire cable tray fixings (continued) and supports



Dimensions and technical information (p. 24)

Fixings (continued)

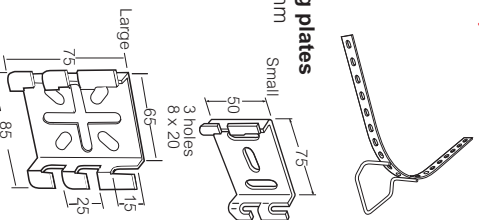
Corner assembly

1	CM840101 EZ	28 mm depth
1	CM840111 GC	52 mm depth
1	CM840131 SS	102 mm depth

Universal mounting plates

Not suitable for 28 mm tray depth

1	CM586060 GS	Small
1	CM586130 SS	Large



1	CM586064 SS	Small
1	CM586134 SS	Large

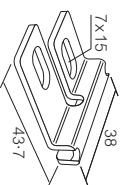
Base fixing plates

For 50 mm widths only

1	CM586040 GS	For 28 and 52 mm depths
1	CM586043 GC	For 28 and 52 mm depths
1	CM586044 SS	For 28 and 52 mm depths

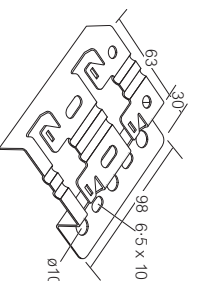
Universal base fixing plates

1	CM586180 GS	Flush fitting
1	CM586183 DC	Flush fitting
1	CM586184 SS	Flush fitting



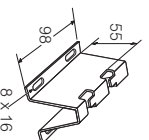
Stand-off brackets

1	CM586170 GS	15 mm depth
1	CM586173 DC	15 mm depth
1	CM586174 SS	15 mm depth



Floor mount brackets

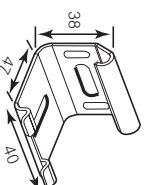
1	CM586080 GS	55 mm depth
1	CM586083 GC	55 mm depth
1	CM586084 SS	55 mm depth



Fixings (continued)

Channel fixing plates

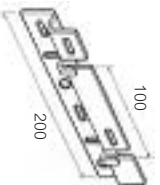
1	CM586190 GS	40 mm width
1	CM586197 DC	40 mm width
1	CM586194 SS	40 mm width



Supports

Vertical wall brackets

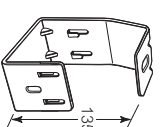
For vertically mounting tray widths 150 mm and above. Use in conjunction with fixing kits (B), see p. 12



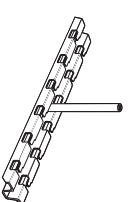
Central hangers

For use with 50 and 100 mm tray widths

50 mm	CM586140 GS
100 mm	CM586100 GS
50 mm	CM586143 GC
100 mm	CM586103 GC
50 mm	CM586144 SS
100 mm	CM586104 SS



For use with 200 mm trays widths and above



Suspension plates

For 100 and 200 mm tray widths
For 100 and 200 mm tray widths

Suspension hooks

For all tray widths
For all tray widths
For all tray widths
For all tray widths

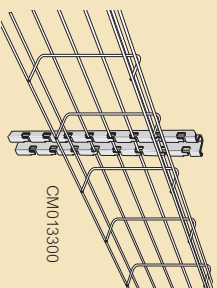




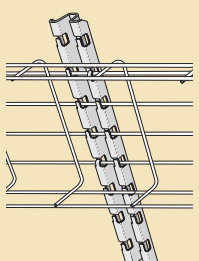
CM556120



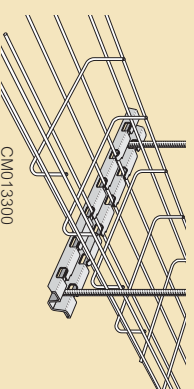
CM556320



CM013300



CM013300



CM013300



Dimensions and technical information (p. 25)

Brackets

Pack	Cat. Nos.
1	GS CM556100
1	CM556110
1	CM556120
1	CM556130
1	CM556140
1	CM556150
1	GC CM556103
1	CM556113
1	CM556123
1	CM556133
1	CM556143
1	CM556153
1	SS CM556104
1	CM556114
1	CM556124
1	CM556134

Profile cantilever arms

For tray width (mm)	Actual width (W) (mm)
100	178
150	228
200	278
300	378
400	478
450	528

Profile roof cantilever arms

For tray width (mm)	Actual width (W) (mm)
100	178
150	228
200	278
300	378
400	478
450	528

Profile pendants

Pendant depth (D) (mm)
300
400
500

Brackets (continued)

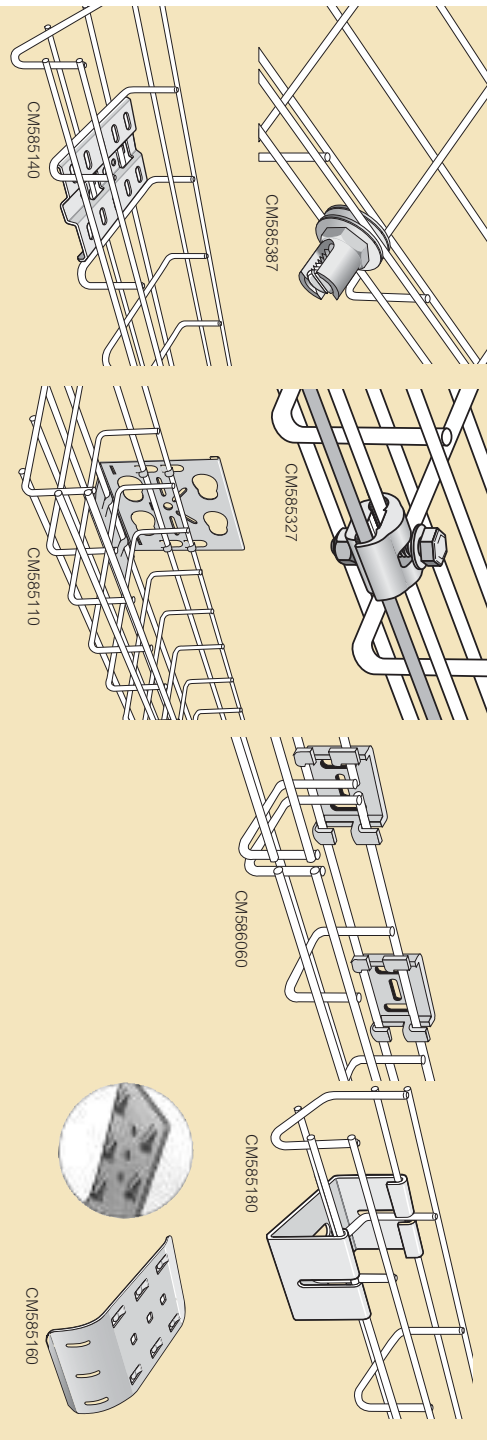
Pack	Cat. Nos.
1	GS CM013150
1	CM013200
1	CM013300
1	CM013400
1	CM013500
1	CM013600
1	CM013010
1	CM013030
1	GC CM013153
1	CM013203
1	CM013303
1	CM013403
1	CM013503
1	CM013603
1	CM013013
1	CM013033
1	SS CM013154
1	CM013204
1	CM013304
1	CM013404
1	CM013504
1	CM013604
1	CM013014
1	CM013034
1	GS CM557800
1	GC CM557803
1	SS CM557804

Profile trapeze hangers

For tray width (mm)	Actual width (W) (mm)
50	150
100	200
150 and 200	300
300	400
400 and 500	500
450 and 500	600
Cut to length	1 000
Cut to length	3 000

Profile strut back plates

For tray width (mm)	Actual width (W) (mm)
50	150
100	200
150 and 200	300
300	400
400	500
450 and 500	600
Cut to length	1 000
Cut to length	3 000



+ Dimensions and technical information (p. 27)

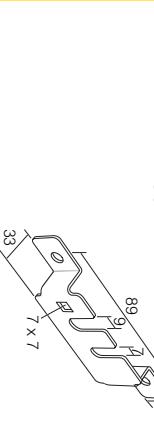
Ancillary items

Pack	Cat. Nos.
1	CM585387
1	CM585397
1	CM585407
1	GS CM585090
1	GC CM585093
1	SS CM585094
1	CM585327
1	CM585080

Earth conductor clamps - copper

Length (L) (mm)	Ø of cable (mm)
22	16
24	35
26	50

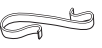
Earth terminal supports



Earth cable clamp – aluminium



Earth cable support

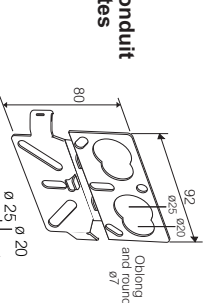


Multifix base plates

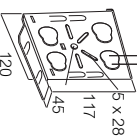
For suspension via threaded rod
Also for mounting luminaires

Width (W) (mm)	Length (L) (mm)
100	100
150	150
100	150
150	150
100	150
150	150
100	150

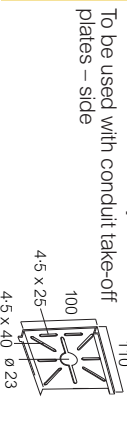
Universal conduit take-off plates



Conduit take-off plates – side



Switch box take-off plates



Pack	Cat. Nos.
1	GS CM585120
1	GS CM586130
1	GC CM586133
1	SS CM586134
1	GS CM586060
1	GC CM586063
1	SS CM586064
1	GS CM585180
1	GS CM585190
1	DC CM585167
1	SS CM585164
1	GS CM559557

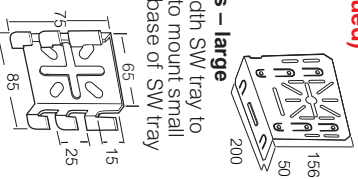
Ancillary items (continued)

Terminal box fixing plate

For side mounting

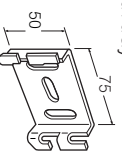
Universal mounting plates – large

Used to fit 50 to 100 mm width SW tray to the wall. Can also be used to mount small accessories on the side or base of SW tray. Not suitable for 28 mm depth tray.



Universal mounting plates – small

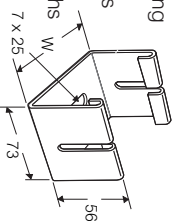
Used to fit 50 mm width SW tray to the wall. Can also be used to mount small accessories to any width SW tray. Not suitable for 28 mm depth tray.



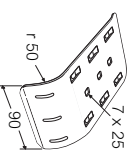
Lighting bracket

For suspending lighting under SW tray

For 50 mm tray widths
Actual width 69 mm
For 100 mm tray widths
and above
Actual width 58 mm



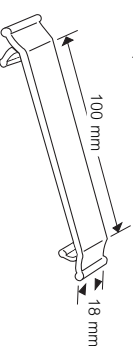
Cable dropout plates



ID clips

Supplied in a pack of 50

Neutral
Orange
Yellow
Green
Blue
Grey



Croppers

630 mm length (Only for EZ, GC)



Swifts® SW steel wire cable tray

protection against corrosion and loading graphs

■ Protection against corrosion

Cable trays are mainly exposed to atmospheric corrosion

The environment in which the cable trays are installed is therefore the main criterion in the choice of surface treatment or type of steel

EZ – Electroplated zinc

Standard EN 12 329

The cable tray, manufactured using untreated steel wire, is pickled and then immersed in an electrolyte containing zinc. Zinc is then deposited on it by passing an electric current

A smooth bluish-grey, fairly glossy, appearance is obtained depending on the pH value of the electrolytic bath used. The colour and gloss have no negative or positive effect on the corrosion resistance of the coating

GC – Hot dip galvanised after manufacture

Standard BS EN ISO 1461 (formerly BS729)

The cable trays or accessories manufactured from untreated steel sheet or wire are degreased and pickled before being immersed in a bath of molten zinc. The whole part is therefore covered with a thick layer of zinc

A light grey, slightly rough appearance is obtained

NOTE : Any white marks due to the formation of zinc hydroxycarbonate which might appear on the surface have no influence on the corrosion resistance. This is in fact the principle on which galvanic protection is based

GS – Pre-galvanised steel

Standard BS EN 10327 : Grade DX51D

Before manufacture, a coating of zinc is deposited by continuous immersion on the steel sheets or wires. The appearance of the components is now smooth and grey

SS – Stainless steel

Standard BS EN 10088 : Number 1-4401 (equivalent to 316L)

Since it contains molybdenum, stainless steel 316L offers almost perfect corrosion resistance in all types of industry, especially in highly aggressive halogen-containing environments (fluorine and chlorine)

DC – Dacromet®

A coating based on zinc and aluminium is obtained, giving the parts a smooth, light grey appearance with no grain

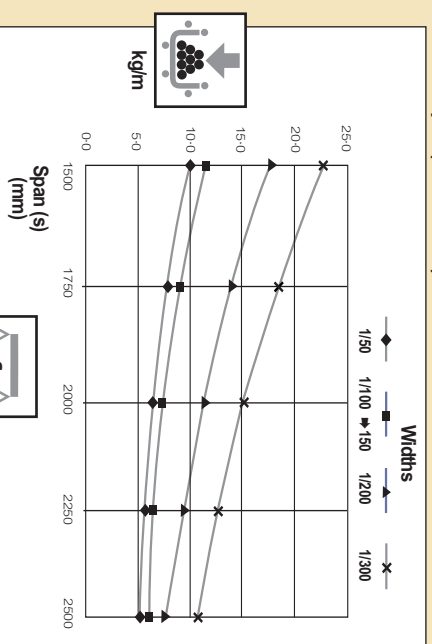
Dacromet® offers protection equivalent to that of GC and is only used for small accessories and fixings, which are difficult to hot dip galvanise

	EZ	GC	GS	SS	DC
Interior installation, normal environment	○	-	○	-	-
Exterior installation, urban environment	◆	○	◆	-	○
Chemical industries, nitrate explosives, photography, decoration	-	◆	-	○	◆
Marine, aggressive, sulphurous (weak concentration) environments	-	◆	-	○	◆
Acid or alkaline environments	-	◆	-	○	◆
Food production	-	-	-	○	-
Halogen environments	-	-	-	○	-

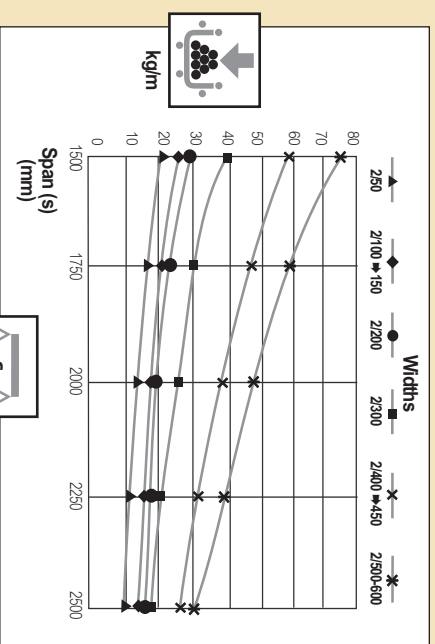
○ recommended
◆ possible

■ Loading graphs

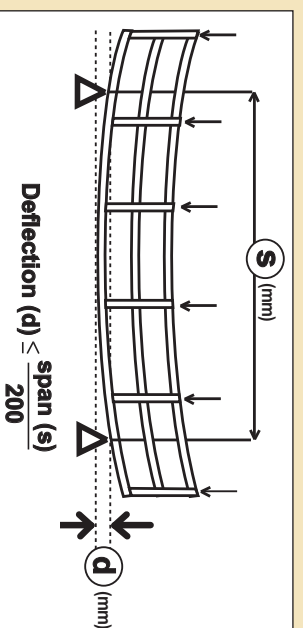
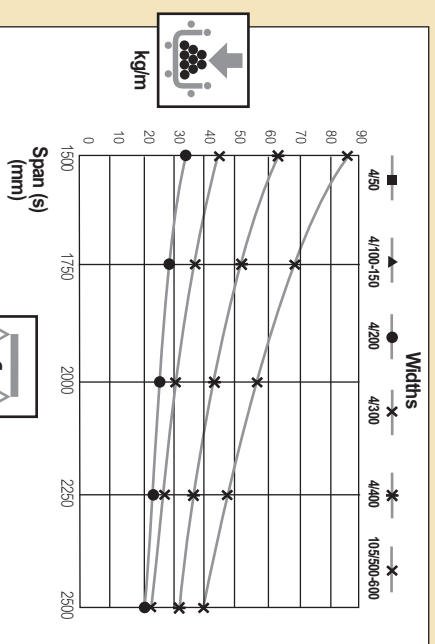
28 mm depth (EZ and GC)



52 mm depth (EZ and GC)



102 mm depth (EZ and GC)



NOTE : For loading information on stainless steel SW tray, contact our Technical Support team on 0870 608 9020

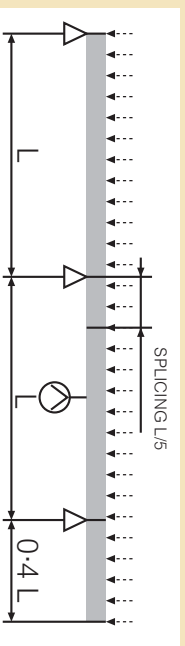
■ **Wire carrying capacity**

Maximum load capacity of SW cable trays for a cable density of 0.25 kg / cm² / m

Tray width (mm)	Maximum capacity (kg / m)		
	28 mm depth	52 mm depth	102 mm depth
50	4	7	-
100	7	13	26
150	11	20	-
200	14	26	51
300	21	39	77
400	-	52	102
500	-	65	-
600	-	78	-

■ **Test method**

The cable tray is tested over two continuous overhanging spans. It is fixed on brackets. The deflection is measured in the middle of the span using 2 sensors placed on the sides of the cable trays. The result is the average value of these 2 measurements. The coefficient to be applied to the permissible load if tray joints is L/2= 0.7

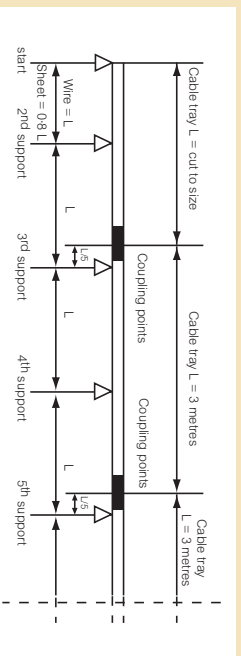


⊗ : measurements taken in the middle of the span. Any type of tray joint
Maximum deflection : 1/200L

NB : The maximum deflection of 1/300th or 1/200th is always obtained if the load is less than the safe working load (failure load divided by a normalised safety coefficient of 1.7). For the supports, the safe working load is the lowest value of either the breaking load divided by 1.7 or the deformation equal to the length of the bracket or hanger divided by 20

■ **Recommendations for installing supports**

In terms of spacing the supports, the cable trays should be placed in accordance with the tray joint position indicated on the diagram below



As the maximum bending stress is situated at the point of coupling, never put the support under the point of coupling. Place the tray joint 1/5 along the support L

■ **Safety**

In the event of critical overload, a mesh structure becomes deformed like a hammock, but is unlikely to collapse



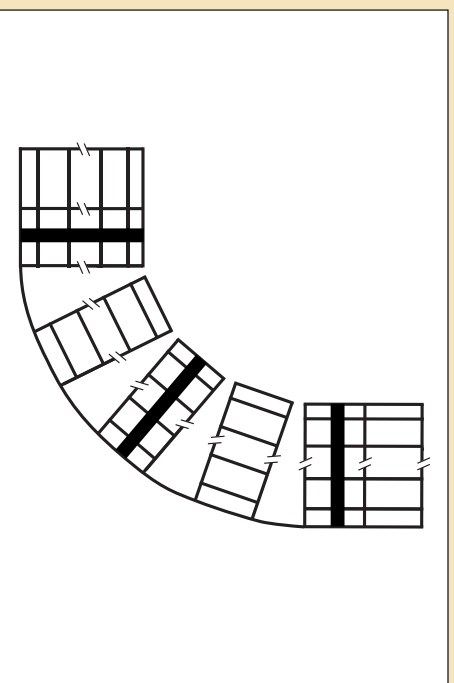
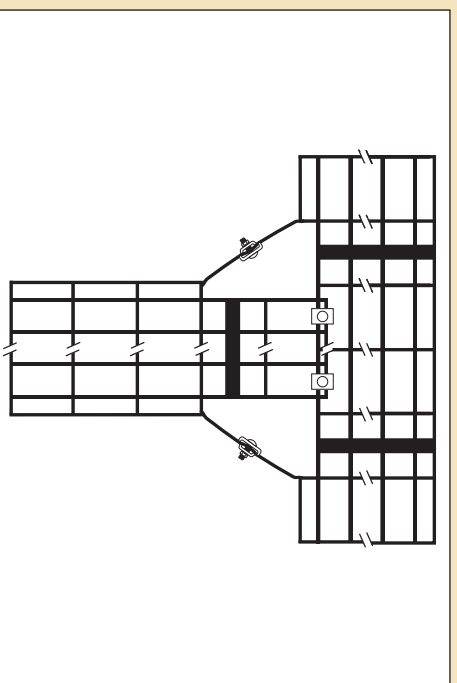
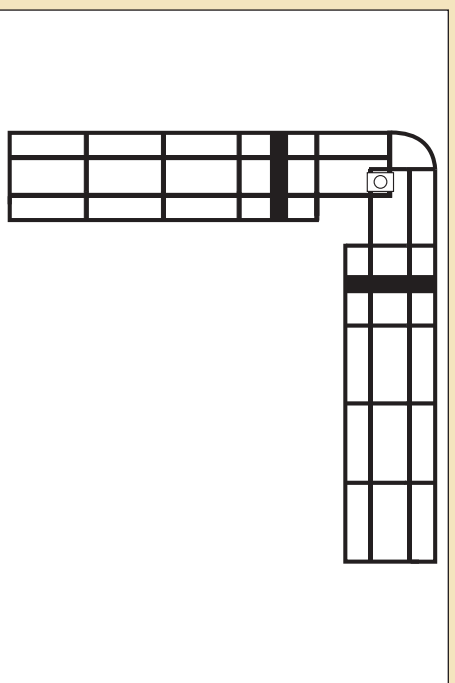
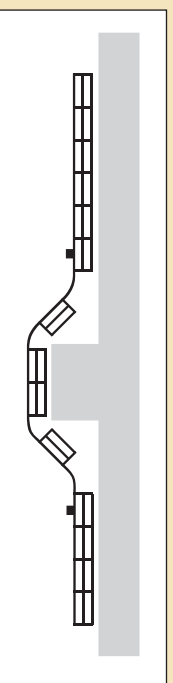
Swifts SW tray cannot be used as a walkway. It is designed primarily as a cable management system

Note : Cut sections have relatively sharp edges and protective gloves must be worn during handling

■ **Choice and position of supports**

Change of level and / or direction : the support must be placed with 1/5th span of the tray fittings. It is recommended to place supports at the start and end of 90° bends. For bends of large radius, an extra support should be allocated in the middle of the bend

■ **Support position examples**



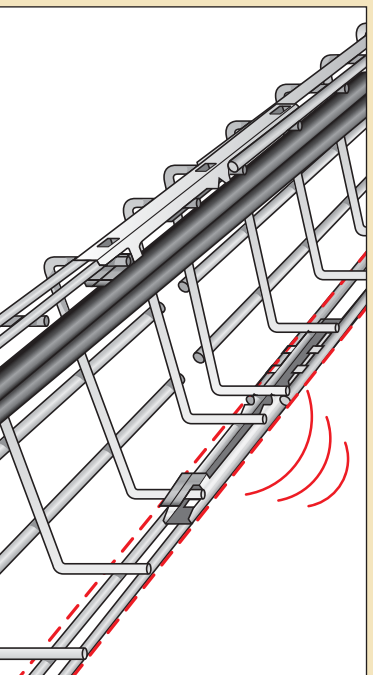
Swifts® SW steel wire cable tray electromagnetic compatibility (EMC)

■ Electromagnetic compatibility (EMC)

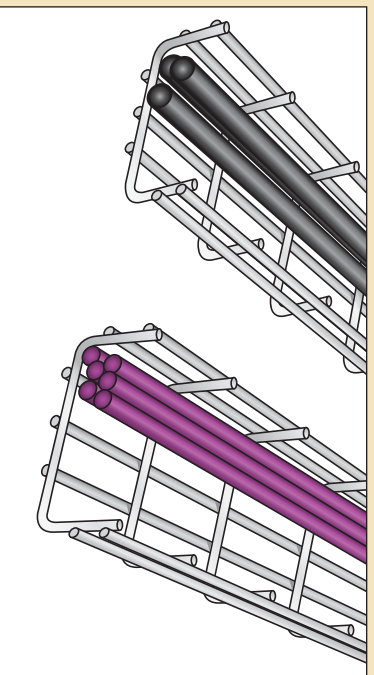
Electromagnetic disturbance is emitted by a "source" (such as telephones, lighting and power cables) polluting a "victim" (such as computer hardware and data cables)

The transmission of electromagnetic disturbances is known as coupling. An EMC problem only occurs when the three influencing factors (source, coupling and victim) are evident. To obtain good EMC, it is necessary to eliminate one of the three elements or reduce its effect

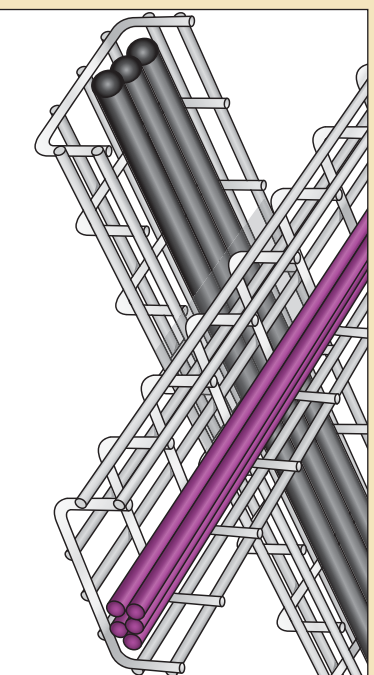
■ Critical factors to reduce electromagnetic disturbance



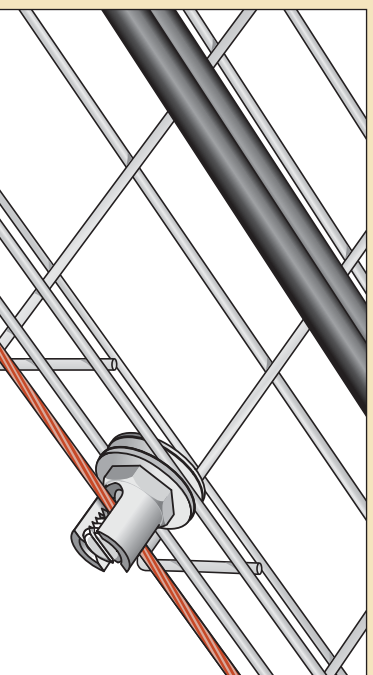
Maintain electrical continuity with a suitable steel wire cable tray and low resistance couplers



Maintain a 20 to 30 cm separation between power and data cables (depending on required standard)



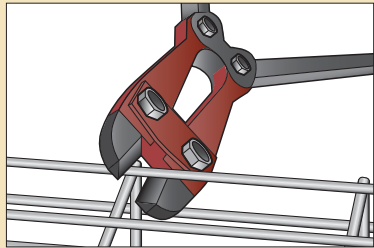
Maintain a 90° angle when crossing power and data cables



Maintain connection to the earth network every 15 to 20 m

Swifts® SW steel wire cable tray installation guide

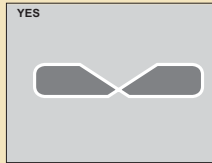
How to cut tray



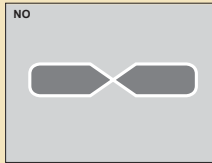
To ensure a quality installation

Bolt cutters with "offset" jaws should be used to allow an angled cut (see p. 16)

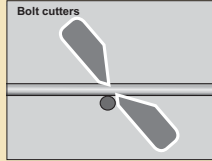
The jaws should be positioned as close as possible to the intersection of the steel wires



Offset cut



Standard central cut jaws

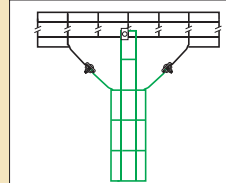


Position of the jaws

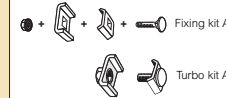
The use of bolt cutters ensures the maintenance of a protective layer over the cut and also helps create a galvanic couple to protect it

"T" or cross with gusset

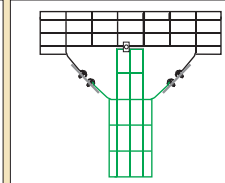
100 and 200 mm tray widths



Fixing kit A or turbo kit A (x 3)



150 mm tray widths

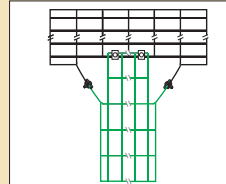


Fixing kit B or turbo kit B (x 3)

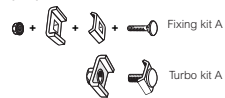


plus Joint strip (x 2)

300 to 600 mm tray widths

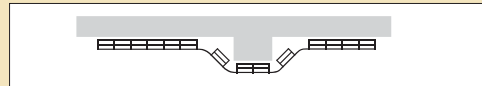


Fixing kit A or turbo kit A (x 4)

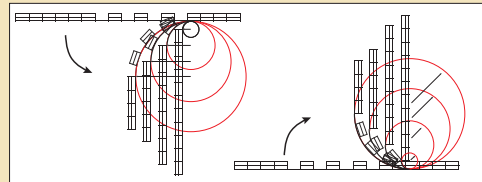


NOTE : to create the fittings shown on these pages, please refer to p. 12 for appropriate fixing kits

Change of level

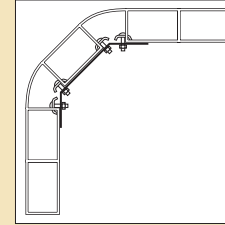


Creating risers



Creating flat bends – large radius

50 mm tray widths

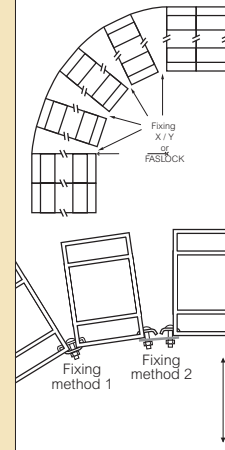


Fixing kit B or turbo kit B (x 4)

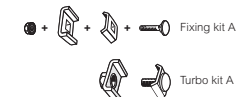


plus Joint strip (x1)

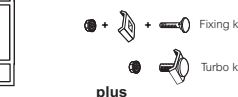
100 to 600 mm tray widths



Fixing method 1
Fixing kit A or turbo kit A



Fixing method 2
Fixing kit B or turbo kit B



plus Joint strip (x1)

Number of fixings, radius and sizes

Tray widths (mm)	Number of zones to cut (one link out of two)	Fixing methods		Internal radius (mm)	Size (mm)
		1	2		
100	3	-	3	220	520
150	4	-	4	280	650
200	4	2	2	280	650
300	6	4	2	431	900
400	8	6	2	460	1060
500	9	9	-	700	1305
600	11	11	-	770	1535

Faslock

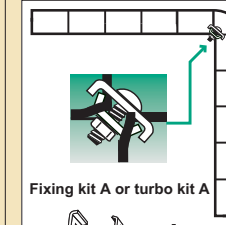
The quickest and easiest way to form large radius bends



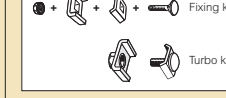
	Tray widths (mm)	Number of zones to cut (one link out of two)	Fixings FASLOCK	Internal radius (mm)	Size (mm)
Faslock S	100	2	2	142	303
Faslock S	150	3	3	220	433
Faslock S	200	4	4	299	557
Faslock XL	300	6	6	454	918
Faslock XL	400	8	8	612	1177
Faslock XL	500	10	10	756	1422
Faslock XL	600	12	12	909	1675

Creating flat bends – small radius

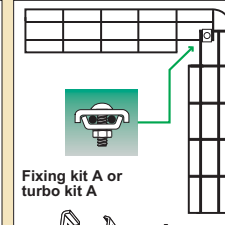
50 mm tray widths



Fixing kit A or turbo kit A



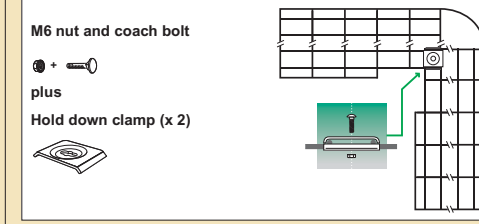
100 mm tray widths



Fixing kit A or turbo kit A



100 to 600 mm tray widths

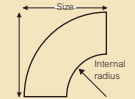


M6 nut and coach bolt

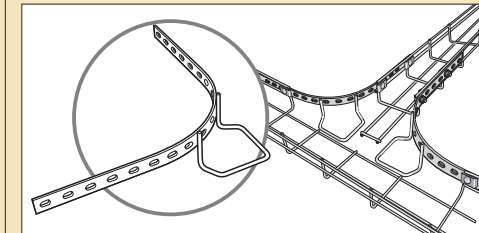
plus Hold down clamp (x 2)

Internal radius and size of the small radius bends

Tray widths (mm)	Number of sections to cut	Internal radius (mm)	Size (mm)
100	1	145	375
150	1	120	430
200	2	120	430
300	2	120	530
400	2	120	630
500	2	135	750
600	2	160	770

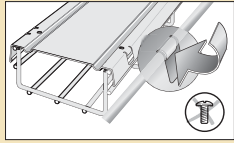


Corner assembly

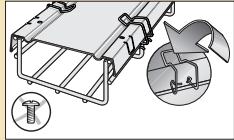


Swifts® SW steel wire cable tray installation guide (continued)

■ Covers



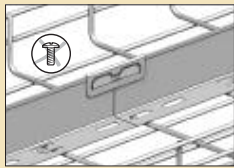
Covers have integral tabs for securing cover to tray



Optional clips can also be used in extreme conditions where additional fixing is required
When using clips, fit 4 per 1 m length

■ Dividers

Secure dividers to tray cross wires approximately every 1 m
Connect dividers using universal connectors for all depths

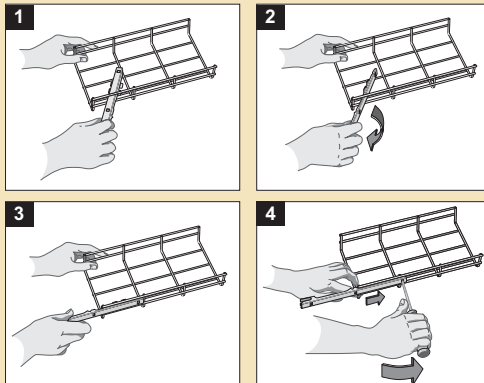


■ Preclic couplers

For use with 52 and 102 mm depth SW tray

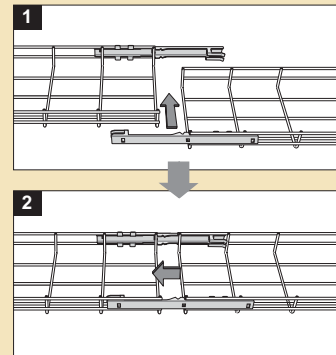
Preclic couplers are the quickest way to join straight lengths. They offer added rigidity and provide good earth continuity (see chart p. 10 for quantity per width)

Fitting preclic couplers to SW tray

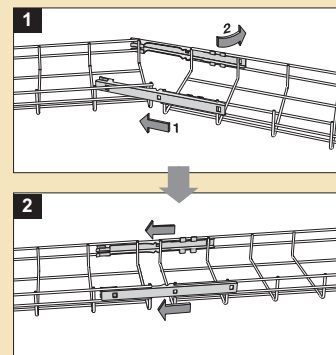


Joining lengths with preclic couplers

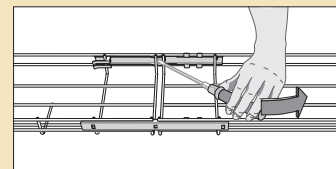
Method 1



Method 2



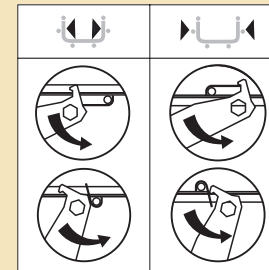
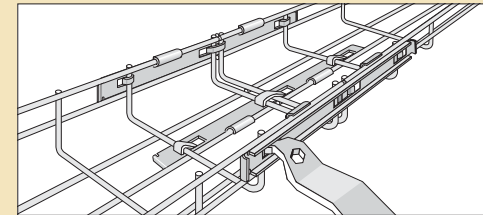
Removing preclic couplers



■ EZR couplers

For use with all SW tray depths

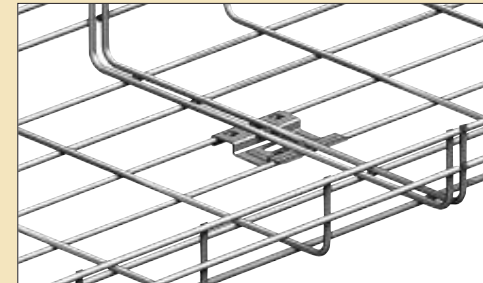
Used as base couplers on widths 200 mm and above (see chart p. 10 for quantity per width)



EZR fixing tool can be used to bend tabs from inside or outside SW tray

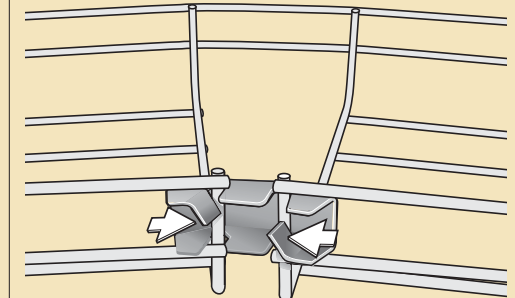
■ Base coupler (luminaire support)

An enhanced alternative to couplers and fixing strips when base coupling is required (see chart p. 10 for quantity per width)



■ Faslock

Used as an alternative to fixing kits to quickly secure radius bends (see p. 21 for quantity per bend)



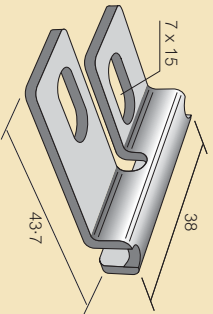
Bend tabs with pliers to secure

■ Fixing kits

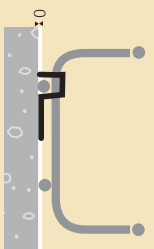
- Fixing Kit A**
For general clamping of straight lengths and fittings
- Fixing Kit Turbo A**
Alternative to above with captive nut and bolt for quicker installation and stronger clamping
- Fixing Kit B**
For general clamping where only one clamp plate is required (eg fixing plates)
- Fixing Kit Turbo B**
Alternative to above with captive bolt for quicker installation

■ **Universal base fixing plates**

Used to flush fit SW tray to flat surfaces

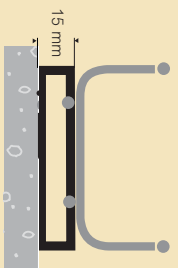
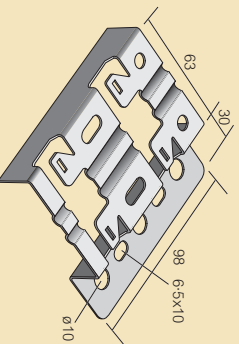


- 50 to 150 mm widths (x 1)
- 200 to 300 mm widths (x 2)
- 400 to 600 mm widths (x 3)



■ **Stand-off brackets**

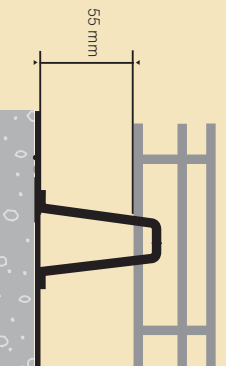
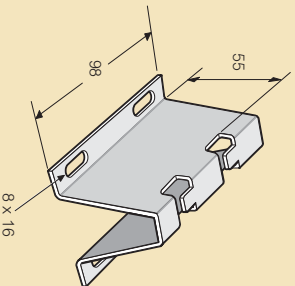
Provide 15 mm clearance on flat or uneven surfaces. Max. load 50 kg



- 100 to 150 mm widths (x 1)
- 200 to 300 mm widths (x 2)
- 400 to 600 mm widths (x 3)

■ **Floor mount brackets**

Provide 55 mm clearance on flat or uneven surfaces. Max. load 150 kg



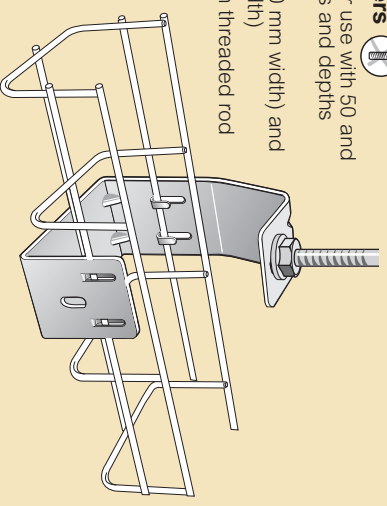
- 100 to 150 mm widths (x 1)
- 200 to 300 mm widths (x 2)
- 400 to 600 mm widths (x 3)

■ **Central hangers**

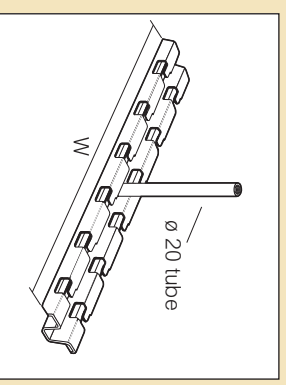
Central hangers for use with 50 and 100 mm tray widths and depths 28 and 52 mm

Max load 30 kg (50 mm width) and 26 kg (100 mm width)

Use with 6 or 8 mm threaded rod



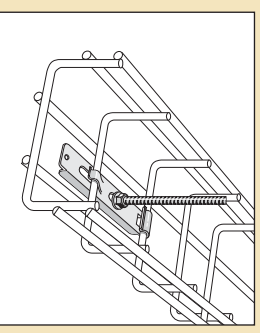
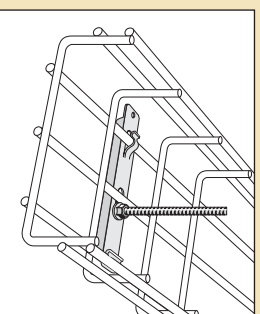
Central hangers for use with 200 to 600 mm tray widths and depths 28 and 52 mm
Use with 8, 10 or 12 mm threaded rod



Tray width (mm)	Actual width (mm)	Max load (kg)	Max load (kg)
200	194	200	37
300	244	160	29
400	394	141	23
400	444	130	20
500	494	121	20
600	594	99	19

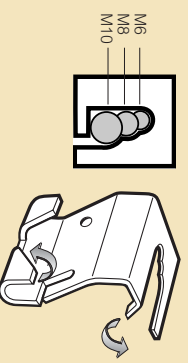
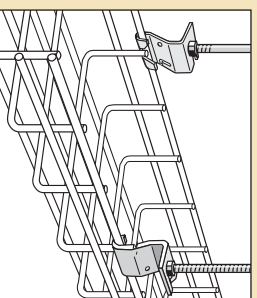
■ **Suspension plates**

100 and 200 mm tray widths



For use with 100 and 200 mm tray widths and depths 28 and 52 mm
Use with 6 or 8 mm threaded rod. Max. load 60 kg

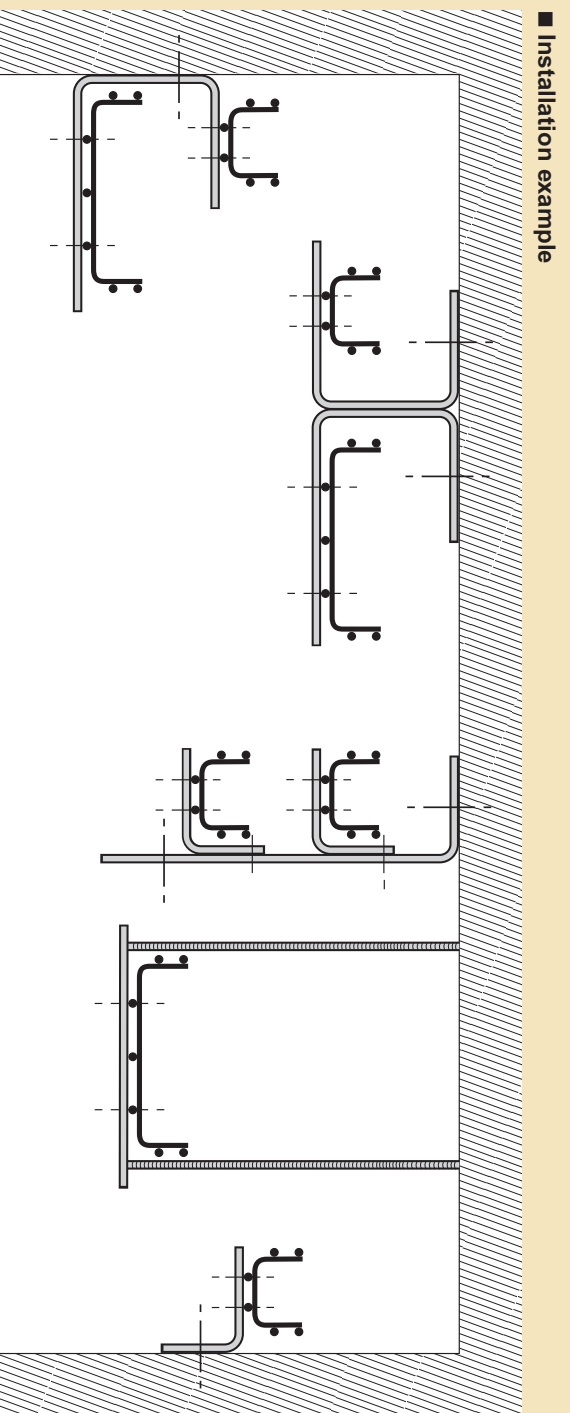
■ **Suspension hooks**



Tabs secure threaded rod and tray

For use with all tray widths and depths. Max. load 100 kg per pair

Swifts® SW steel wire cable tray profile brackets



■ Profile cantilever arms



Cat. Nos. ⁽¹⁾ GS	For tray widths (mm)	Actual width (mm)	Max load (kg)
CMS56100	100	178	130
CMS56110	150	228	110
CMS56120	200	278	85
CMS56130	300	378	73
CMS56140	400	478	56
CMS56150	450	528	50

(1) See p. 14 for other finishes

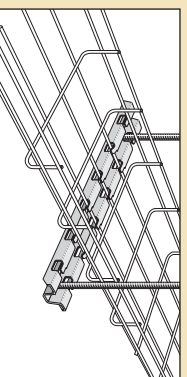
■ Profile roof cantilever arms



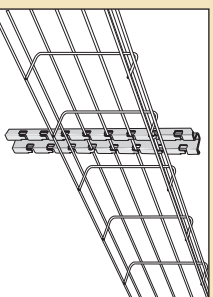
Cat. Nos. ⁽¹⁾ GS	For tray widths (mm)	Actual width (mm)	Max load (kg)
CMS56300	100	178	120
CMS56310	150	228	100
CMS56320	200	278	80
CMS56330	300	378	70
CMS56340	400	478	48
CMS56350	450	528	44

(1) See p. 14 for other finishes

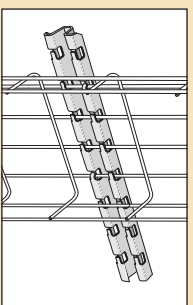
■ Profile trapeze hangers



Use with 6 or 8 mm threaded rod



Can also be used to horizontally mount SW tray on walls
(15 mm stand-off)

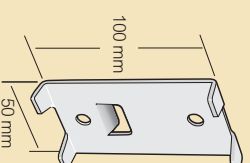
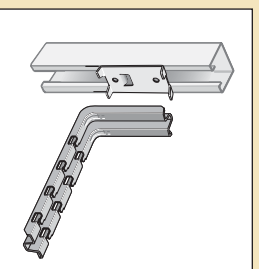


Can also be used to vertically
mount SW tray on walls (15 mm stand-off)



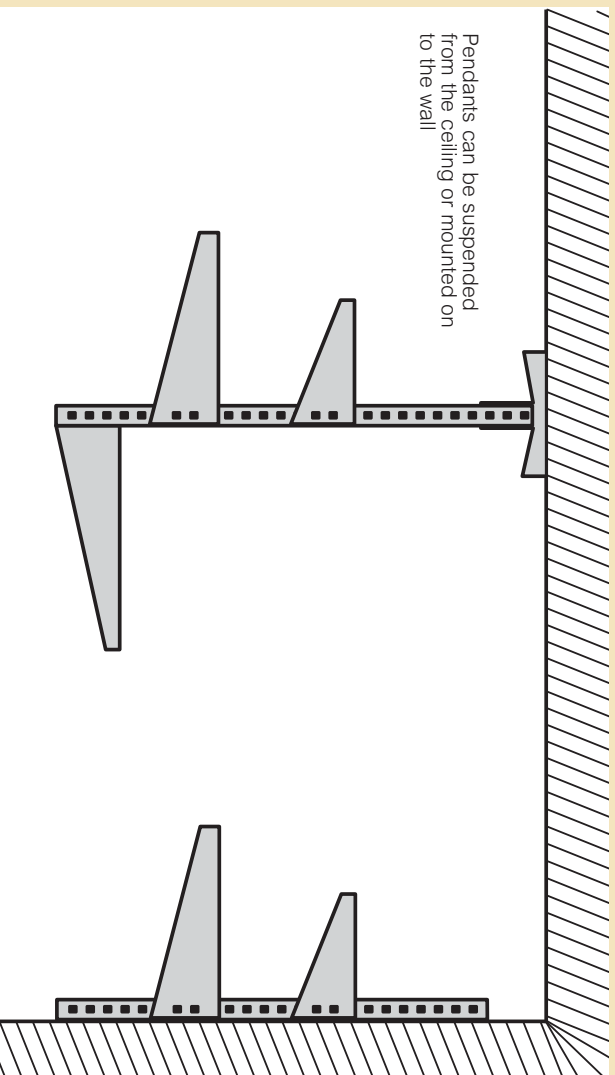
NOTE : Can also be used to mount SW tray on floors
(15 mm stand-off)

■ Profile strut back plates

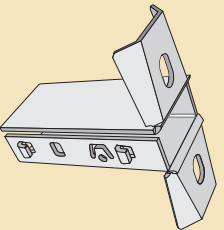


Used to fit profile
supports to
Switrack channel
with M8 bolts and
channel nuts

■ Pendant installation

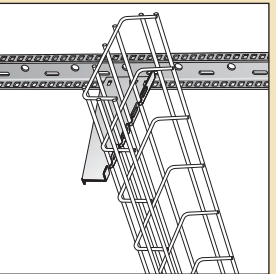


■ Pendant mounting plate



Open slot on side enables pendant to be slid on to mounting plate and secured using tabs

■ Cantilever arms for pendant mounting



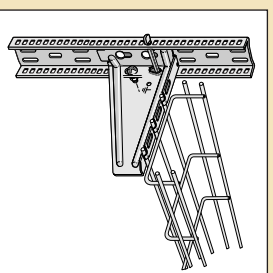
Cat. Nos.	For tray widths (mm)	SWL (kg)
CM557920	100	70
CM557930	150	55
CM557940	200	65
CM557950	300	78

Fit to pendant and secure using integrated tabs

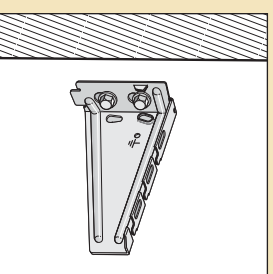
■ Cantilever arms

Can be mounted to pendants or secured directly to the wall

For tray widths 50 to 300 mm

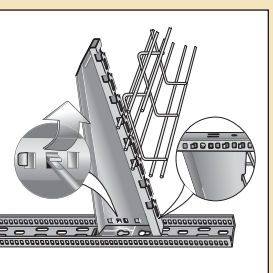


Fit to pendant using pin (see p. 15)

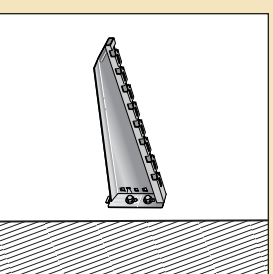


Fit directly to wall using bolts

For tray widths 400 mm and above



Fit to pendant and secure using integrated tabs



Fit directly to wall using bolts

Cat. Nos. ⁽¹⁾ GS	For tray widths (mm)	Direct wall fixing SWL (kg)	Pendant fixing SWL (kg)
CM557400	50	–	–
CM557410	100	40	50
CM557420	150	90	120
CM557430	200	90	110
CM557440	300	105	120
CM557450	400	105	115
CM557460	500	220	160
CM557470	600	220	145

(2) See p. 15 for other finishes

Swifts® SW steel wire cable tray

Electrical continuity and ancillary items

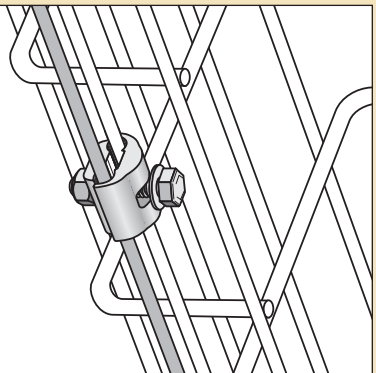
■ Electrical continuity

Under the requirements of the standard IEC 61537, couplers must have a maximum resistance of 50 mΩ

The Swifts SW system, under the IEC 61537 test, gave a resistance which is between 1/50th and 1/80th of the maximum permissible by the standard

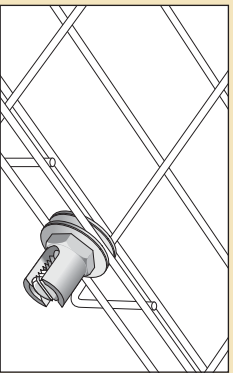
To obtain a satisfactory EMC performance and protect people and property, an integrated earth network is vital to the system

■ Earth cable clamps – aluminium



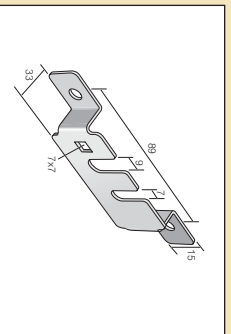
A low cost earthing solution for a protective conductor of cross section 16 to 35 mm²

■ Earth cable clamps – copper

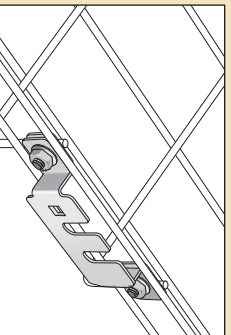


Safe, durable earthing for protective conductors of cross section 16 to 50 mm²

■ Earth terminal supports



Installed using fixing kit B (x 2)



Provide improved continuity for earthing when used in conjunction with earth conductor clamps (above) for the most demanding applications

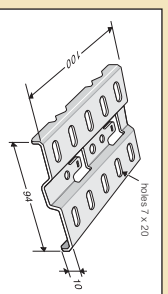
■ Earth cable support



Swifts SW should be bonded to the earth of the installation every 15 to 20 m
The earth cable support keeps cables tidy between bonding positions

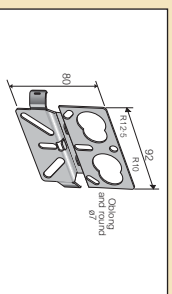
NOTE : The installer must first determine the cross section of any protective conductor used on the installation. The ancillary items above are suitable for the Swifts SW range

■ Multifix base plates



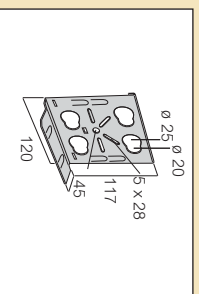
Used in two orientations to suspend an installation with threaded rod or to mount luminaires underneath the installation

■ Universal conduit take-off plates



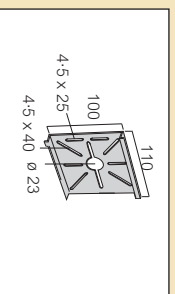
Can be mounted on side or base of Swifts SW tray

■ Conduit take-off plates – side



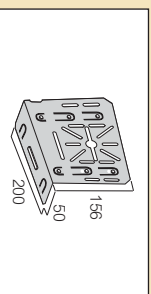
Used to provide 4 conduit outlets

■ Switch box take-off plates



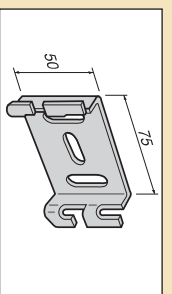
For simple clip-on fitting of junction boxes or other ancillary boxes to conduit take-off plates – side (above)

■ Terminal box fixing plate



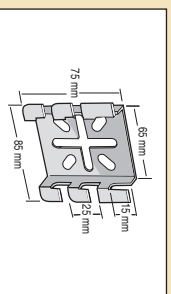
Large side-mounting plate for many applications where a strong fixing is required

■ Universal side plate – small



Used to fix 50 mm width SW tray to the wall or to support terminal boxes

■ Universal side plate – large



These can be used in two orientations to fix 50 or 100 mm width SW tray to the wall or to support terminal boxes and other fittings
Can also be used on base of 100 mm width and above to suspend fittings



LEGRAND ELECTRIC LIMITED
Great King Street North, Birmingham, B19 2LF
Tel : 0870 608 9000 Fax : 0870 608 9004

Customer Services :
Tel : 0845 605 4333 Fax : 0845 605 4334
E-mail : legrand.sales@legrand.co.uk

Technical Support :
Tel : 0870 608 9020 Fax : 0870 608 9021
E-mail : technical.uk@legrand.co.uk
Website : www.legrand.co.uk

Swifts and the Legrand logo are registered trademarks of the Legrand group of companies.



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pranzzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com