CABLOFIL STEEL WIRE CABLE TRAY 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 2014-2018 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.







L¹ legrand



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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:







Our products are not only faster to install, they're also easier to handle and require less time on site to fit - 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 and Product Data Sheets (PDSs)
- 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
- Floor systems
- Perimeter systems





SWIFTS CABLE



SWIFTS CABLE TRAY

TRAY

Cablofil... trusted for installations large and small

Cablofil steel wire cable tray has been tried and tested in installations of all sizes throughout the UK and beyond, from light duty requirements in small commercial buildings through to extra heavy duty installations in refineries and heavy industry applications such as shipbuilding.



A ROBUST, VERSATILE CABLE MANAGEMENT SOLUTION FOR INSTALLATIONS OF ALMOST ANY SIZE

CABLOFIL THE LEADER IN STEEL WIRE CABLE TRAY

DESIGNED TO BE EASY TO INSTALL & CONFIGURE ON SITE

Choose Cablofil for fast, simple, reliable installations

Cablofil steel wire cable tray is supplied in straight lengths from which sophisticated installations can be created without the need for additional fittings. Simply cut and shape lengths to form bends, tees, crosspieces etc. and secure quickly and easily using a range of 'slot and tab' fixings that do not require nuts and bolts.



FASCLIC AUTO

This range of 54 mm deep steel wire cable tray is supplied complete with pre-fitted couplers for quick and easy connection of straight lengths. Lengths simply clip together without the need for additional fasteners.



FASLOCK AUTO The simple answer to fabricating fittings on site. Create radius bends in minutes with Faslock Auto. No additional fasteners (or

fuss) required.



FASTRUT 41 A push-fit clip designed to secure steel wire cable tray to channel support or channel type cantilever arms.

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



PRODUCT RANGE FEATURES

- Vast range of supports for wall, ceiling and floor mounting
- Save on installation time with Cablofil's fast fix brackets and fixing kits
- Eradicate the need for nuts and bolts with Cablofil's 'slot & tab' boltless system
- Straight lengths available with pre-fitted couplers for rapid connection
- Natural ventilation provides greater cable efficiency
- Available in several finishes to suit different installation requirements

la legrand

EZ+... for when the going

GETS TOUGH!

INCREASED LIFE EXPECTANCY IN DEMANDING ENVIRONMENTS

Potentially corrosive environments such as tunnels, airports and energy production facilities call for tough products that can stand the test of time. Cablofil's latest innovation in surface treatment, EZ+, has been proven to live up to the challenge.

EZ+ is an additional finish applied over standard electrozinc plated steel wire cable trays, offering a durable surface treatment for temporary external installations during the construction phase.

In addition to Cablofil's unique rounded wires and T-welded safety edges, the EZ+ coating provides a smooth, consistent surface which further reduces the risk of damage to both the cables and the installer.

ADDITIONS TO THE RANGE



COUPLERS

Our popular EDRN quick-fit couplers are now available in EZ+ which provides both a durable finish and an aesthetically pleasing installation.



ON SITE FABRICATION Create bends, tees and crosspieces using a range of matching fixings and fasteners.



SUPPORTS A range of wall, ceiling and floor mounting options are available in the EZ+ range.

See page 11 onward for the full range



PRODUCT SELECTION

STRAIGHT LENGTHS / DIVIDERS / COVERS

54 mm deep tray (CF54) FASCLIC AUTO (FCFA54) / FASCLIC (FCF54) 105 mm (CF105) / 30 mm deep tray (CF30) 80 mm (CF80) / 150 mm (CF150) deep tray / G-tray (CFG) Heavy duty tray 105 mm (HDF105) / 80 mm (TRIHDF) Mini tray (TXF35) / flexible tray (G-MINI) Straight length dividers (COT - COT J) Bend dividers (COTFIL - COTFILU) Covers (CP / CVN) / cover clips (F01/02/03)	18 -	11 12 13 14 15 16 17 17 19
COUPLERS AND FIXING KITS Length to length couplers (EDRN / AUTOCLIC) Joint strips (Z240 / ED275 / ED1100 / ED250/90) Connectors (FASLOCK AUTO) Base couplers (CEFAS) Stand-off brackets (R15/25/35) Channel fixings (FASTRUT 41 / CE40) Fixing kits and components	22 -	20 20 21 21 21 21 22 23
WALL MOUNTING Base and side wire mounting (UC50 / CAT30 / CAT40 / CM50 / CM50XL) Cantilever arms (CSN / CSNC / CB / CLN / CC21S) Stand-off brackets (R15/25/35/50) Fast fix support rails (RCSN) / mounting rails (EDF / R415)	25 - SP)	24 27 27 28
CEILING MOUNTING Central hangers and plates (SF50/100 / SL50 / CEQ / UC50 / SAS / CE40 / CM50XL / SCF / PFSCF / UCS) Trapeze hangers (AS) Profile mounting (CSNC) Pendant mounting (RCSN / EDF / PFREDF / R41SP / PFR41S)	29 -	31 32 32 33
FLOOR / BEAM / OTHER MOUNTING Floor mounting (CM50XL / RCSN / R15/25/35/50 / FTX / UC50 / UFC) Beam mounting (CLMFAS / CLMU / EF) Universal mounting plates (CM50 / CM50XL / CAT40 / CM50XXL) Take-off plates (SBDN) Luminaire supports (SL50/100) Multifix base plates (MFM / MFPOLYA) Cabling accessories (DEV100 / DEV50 / FAS ROLLER / CABLOGRIP / CLIP / PA) Earthing (BLF / SBU / GRIFEQUIP / GRIFEQUIP 2)	34 -	35 36 37 38 38 38 38 39 40
Fixings and fasteners / tools		41



Cablofil®

key to finishes and symbols

Key to finishes

Symbol	Description
GS	Pre-galvanised
EZ	Electrogalvanised after manufacture
EZ+	Additional coating after electrogalvanisation (black)
ZN+	Zinc nickel plus additional coating (black)
GC	Hot dip galvanised after manufacture
DC	Zinc rich coating
ZM	Zinc magnesium
304L	Stainless steel 304 L
316L	Stainless steel 316 L

For detailed information related to finishes, refer to p. 132-133

Recommended finishes for different environments

Typical atmospheric environments in relation to suitability of finishes

O Recommended ♦ Possible	EZ	EZ+	GC	304L	316L
Internal installation, normal environment	о				
External installation, urban environment		•	0		
Temporary external installation during construction phase		О			
Chemical industries, nitrate explosives, photography, decoration					0
Marine, harsh, sulphurous (weak concentration) environments					0
Acid or alkaline environments				•	0
Food production environment				О	0
Halogen environment					0

Compatible finishes

Various finishes can be used in conjunction with each other when installing a system. See below :

Finish of straight lengths	EZ	EZ+	GC	304L	316L	
Compatible finishes of accessories	GS	EZ+	GC	304L	316L	١
(e.g. supports, couplets etc.)	EZ	ZN+	DC	316L		1
		DC	ZM			
		ZM				

Colour code identification



The surface treatment can be indentified by a colour coded clip Each colour corresponds with a particular finish, i.e. yellow clip = EZ

Key to symbols

Symbol	Description	
	Fixing without nuts and bolts	
	ng with nuts and bolts	
B	assembling	
X	Fast assembling system (FAS)	
	Patented	
8	Safety edge	
P1500	Supports at 1.5 m span	
P2000	Supports at 2·0 m span	
P6000	Supports at 6⋅0 m span	
W	Width	
F	Length	
HÌ	Height	
CEI 61.537 NORM	Practical safety load in daN	
υ	Coupling	
	-	



لو

straight lengths – FCFA54 (FASCLIC AUTO)





Loading graphs **p. 46** Dimensions and technical information **p. 46**

NOTE : please use Cat. No. when placing your order

Pack	Cat. Nos.	FCFA54 – straight lengths (3 m)			
	EZ	• 54 mm بَثْبَا	↔: 50 mm Width (mm)	→ 600 mm 🚟 3 m	
1	CM082061	FCFA54/50	50		
1	CM082071	FCFA54/100	100		
1	CM082081	FCFA54/150	150	3000	
1	CM082091	FCFA54/200	200		
1	CM082101	FCFA54/300	300		
1	CM082201	FCFA54/400	400	W 100	
1	CM082251	FCFA54/450	450		
1	CM082301	FCFA54/500	500		
1	CM082401	FCFA54/600	600		

Loading graphs **p. 45** Dimensions and technical information **p. 45**

NOTE : please use Cat. No. when placing your order

Pack	Cat. Nos.		FCF54 stai straight lei	i <mark>nless</mark> s ngths (3	teel – 5 m)
	20/1	2471	• 54 mm بيب	i⇔i 50 m	m → 20
	304L	3101		Width (mm))
1	CM081068	CM081064	FCF54/50	50	- 000
1	CM081078	CM081074	FCF54/100	100	3003
1	CM081088	CM081084	FCF54/150	150	F
1	CM081098	CM081094	FCF54/200	200 -	Ś
					W 🔨

50 mm بَظٍنَبُ 54 mm بَلْبُ							
	Width (mm)						
CF54/50	50						
CF54/100	100						
CF54/150	150	Į					
CF54/200	200 ≺	-					
		1					









straight lengths – CF80 - CF150



NEW

straight lengths – HDF105 for heavy duty applications

straight lengths – TRIHDF for heavy duty or widespan applications



mini steel wire cable tray – TXF35



bend dividers - COTFIL - COTFILU





covers - CP - CP EZ+



Pack

1

1

1

1

1

1

1

1

لو Dimensions and technical information p. 58

NOTE : please use Cat. No. when placing your order

Pack	Cat.	Nos.	CP – covers		
		_	1 → 1 نِٹِا Supplied s	50 mm singly	
	GS	GC		Widt	
1	CM646010	CM646013	CP50	:	
1	CM646020	CM646023	CP100	1	
1	CM646030	CM646033	CP150	1	
1	CM646040	CM646043	CP200	2	
1	CM646050	CM646053	CP300	3	
1	CM646060	CM646063	CP400	4	
1	CM646090	CM646093	CP450	4	
1	CM646070	CM646073	CP500	5	
1	CM646080	CM646083	CP600	6	



Colour : black EZ+ CM350881 CP50 CM350882 CP100 CM350883 CP150 CM350884 CP200 CP300 CM350885 CP400 CM350886 CM350887 CP500 CM350888 CP600

Cat. Nos.

CP EZ+ - covers

 $\overset{i \stackrel{()}{\longrightarrow}}{\longrightarrow} 30 \rightarrow 150 \text{ mm} \overset{i \stackrel{()}{\longmapsto}}{\longrightarrow} 50 \rightarrow 600 \text{ mm} \overset{===}{\longleftrightarrow} 2 \text{ m}$ Supplied singly in a 2 m length Width (mm) 50 100 2000 150 200 300 400 500 600

		CP stainless steel – covers					
	_	لَثِبُ 30 → 150 mm ⁽) 50 → 600 mm ⁽⁾ Supplied singly in a 2 m length					
	316L		Width (mm)				
1	CM646014	CP50	50				
1	CM646024	CP100	100				
1	CM646034	CP150	150	2000			
1	CM646044	CP200	200	20			
1	CM646054	CP300	300 🧹				
1	CM646064	CP400	400				
1	CM646094	CP450	450				
1	CM646074	CP500	500				

CP600

600

CM646084





1



Dimensions and technical information p. 58

NOTE : please use Cat. No. when placing your order



		CVN stainless steel – covers				
	2141	1 → 1 نَٹِٹِاً Supplied i	50 mm ∹∰ n packs of	50 → 200 mm ↔ 1 m 3 x 1 m lengths		
	310L		Width (mm)	/		
1	CM629054	CVN50	50			
1	CM629104	CVN100	100	1000		
1	CM629154	CVN150	150			
1	CM629204	CVN200	200			
				W		



couplers and connectors - EDRN - AUTOCLIC - Z240 - ED275/1100/250



couplers and connectors - FASLOCK AUTO - CEFAS - R15/25/35



channel fixings - FASTRUT 41 / CE40 fixing components - CE25/CE30





NOTE : please use Cat. No. when placing your order





ن£ن 30 → 150mm 👾 100 → 600 mm For technical information, see p. 83 daN



аск	Cat.	CEZJ/ CEJ	
			ن⊈: 30 → 150
	EZ	DC	
00	CM801011	CM801017	BTRCC 6 x 20
50	CM558011	CM558013	CE25
50	CM558041	CM558043	CE30

CE25 / CE30 – fixing components ن⊈ا: 30 → 150 mm () 50 → 600 mm



CE25 / CE30 stainless steel fixing components 304L 316L BTRCC 6 x 20

00	CIVIOU 10 10	GIVIOU1014	DIRC
50	CM558018	CM558014	CE25
50	CM558048	CM558044	CE30



Key: EZ	Electrogalvanised after manufacture	DC Zinc rich coating
ZN+	Zinc nickel plus additional coating (black)	304L Stainless steel 304 L
		316L Stainless steel 316 L
		For detailed information related to finishes, refer to p. 132-133



Dimensions and technical information **p. 67**

NOTE : please use Cat. No. when placing your order





wall mounting - UC50 - CAT30 - CAT40 - CM50 - CM50XL



wall mounting - CSN - CSNC



[لم Dimensions and technical information p. 72-73

NOTE : please use Cat. No. when placing your order

Pack	Cat.	Nos.	CSN – p	orofile	e 📻	er arms
			·(‡)· 30 →	54 m	m	→ 450 mm
	GS	GC	I OI LECIIII		F	alion, see p. 72
1	CM556100	CM556103	CSN100	178 mm	130	
1	CM556110	CM556113	CSN150	228	110	
1	CM556120	CM556123	CSN200	278	85	
1	CM556130	CM556133	CSN300	378	73	TAT
1	CM556140	CM556143	CSN400	478	56	160
1	CM556150	CM556153	CSN450	528	50	50 x 25
	304L	316L				
1	CM556108	CM556104	CSN100	178	130	×.
1	CM556118	CM556114	CSN150	228	110	
1	CM556128	CM556124	CSN200	278	85	
1	CM556138	CM556134	CSN300	378	73	
			-			

Pack	Cat.	Nos.	CSNC -	prof	ile ro	0	ever arms
			نِ‡ا 30 →	54 m	m∵⇔	1	J mm
			For techn	ical ir	ntorma	ation,	see p. 73
	GS	GC		L1 mm	L2 mm	daN	
1	CM556300	CM556303	CSNC100	170	178	120	
1	CM556310	CM556313	CSNC150	170	228	100	L L
1	CM556320	CM556323	CSNC200	170	278	80	
1	CM556330	CM556333	CSNC300	288	378	70	
1	CM556340	CM556343	CSNC400	288	478	48	210
1	CM556350	CM556353	CSNC450	288	528	44	` ∎ ′ ≨ ⁵⁰
	304L	316L					
1	-	CM556304	CSNC100	170	178	120	
1	-	CM556314	CSNC150	170	228	100	
1	-	CM556324	CSNC200	170	278	80	
			EPVCS	l – e	nd ca	aps	
	P	/c					
1	CM55	59605	For use w	ith C	SN an	d CS	NC 🏈

cantilever arms



All dimensions (mm) are nominal

wall mounting – CB - CLN



Dimensions and technical information **p. 74-76**

NOTE : please use Cat. No. when placing your order

Pack	Cat.	Nos.	CB – compact cantilever arms for universal mounting				
			·ك الإلجاب 30 → 150 mm ·ك 100 → 600 mm				
			For techni working lo	ical infoi bad, see	mation, p. 74-7	includir 5	ig safe
	GS	GC		L mm	H mm	For tray widths mm	
1	CM350810	CM350813	CB100	131	71	100	
1	CM350820	CM350823	CB150	181	75	150	
1	CM350830	CM350833	CB200	231	75	200	
1	CM350840	CM350843	CB300	335	88	300	
1	CM350850	CM350853	CB400	435	102	400	
	316L	EZ+	EZ+ colou	r : black			
1	CM350814	CM350812	CB100	131	71	100	
1	CM350824	CM350822	CB150	181	75	150	
1	CM350834	CM350832	CB200	231	75	200	
1	CM350844	CM350842	CB300	335	88	300	
1	CM350854	CM350852	CB400	435	102	400	
				1		Re Co	
					and the second s		
	GS	GC		-			CB100-400
1	CM350860	CM350863	CB500	535	137	500	
1	CM350870	CM350873	CB600	638	137	600	
	316L	EZ+	EZ+ colou	r : black			
1	CM350864	CM350862	CB500	535	137	500	
1	CM350874	CM350872	CB600	638	137	600	
			H BR				
							CB500-600



Pack	Cat.	Nos.	CLN – c	antileve	er arms	5	
			نِ£ن 30 →	54 mm •	→ :		
			For techn	ical infor	mation,	see p. 70	6
	GS	GC		L	H	JF daN	
1	CM556200	CM556203	CLN100	100	125	95	
1	CM556210	CM556213	CLN150	150	125	70	
1	CM556220	CM556223	CLN200	200	125	40	
1	CM556230	CM556233	CLN300	300	125	25	
					Н 50	North Contraction of the second secon	×25 35

wall mounting - CC21S - FV1 - R15/25/35 - R50



wall mounting - RCSN - EDF - R41SP - INTERFAS



All dimensions (mm) are nominal

ceiling mounting - SF50 - SF100 - SL50 - CEQ - UC50





ceiling mounting - SAS - CE40 - CM50XL



Dimensions and technical information **p. 82-83**





ceiling mounting - SCF - PFSCF - EXT-SCF - UCS



Dimensions and technical information **p. 84-85**

NOTE : please use Cat. No. when placing your order





ceiling mounting - AS - CSNC



Dimensions and technical information p. 86-87

NOTE : please use Cat. No. when placing your order



ack	Cat	Noc	CSNC -	nrof	ile ro	ofc	antilever arms
ack	Cat. Nos.		انٹی 30 → 105 mm 🖓 10 For technical information			⇒ 100	→ 450 mm see p. 87
	GS	GC		L1 mm	L2 mm	daN	
1 1 1 1 1	CM556300 CM556310 CM556320 CM556330 CM556340 CM556350	CM556303 CM556313 CM556323 CM556333 CM556343 CM556353	CSNC100 CSNC150 CSNC200 CSNC300 CSNC400 CSNC450	170 170 170 288 288 288	178 228 278 378 478 528	120 100 80 70 48 44	210
1 1 1	CM556304 CM556314 CM556324		CSNC100 CSNC150 CSNC200	170 170 170	178 228 278	120 100 80	
			EPVCSN	l – e	nd ca	aps	

PVC 1 CM559605

For use with CSNC cantilever arms





ceiling mounting - RCSN - PFREDF - EDF - R41SP - PFR41S



floor mounting - CM50XL - RCSN - R15/25/35 - R50


floor mounting - FTX - UC50 - UFC





beam mounting - CLMFAS - CLMU - EF



Cat. Nos.

ΕZ

CM559201

CM559211

Dimensions and technical information p. 99-101

NOTE : please use Cat. No. when placing your order







other mounting - universal mounting plates - CM50 - CM50XL - CAT40 - CM50XXL







All dimensions (mm) are nominal

GC

DC

Hot dip galvanised after manufacture

Zinc rich coating

For detailed information related

to finishes, refer to p. 132-133

other mounting - take-off plates - SBDN

other mounting - luminaire supports -SL50 – SL100 – MFM – MFPOLYA



cabling accessories - FAS ROLLER - DEV100 - DEV50 - CABLOGRIP - CLIP - PA



All dimensions (mm) are nominal

18

earthing - BLF - SBU - GRIFEQUIP - GRIFEQUIP 2



Dimensions and technical information **p. 108-109**

NOTE : please use Cat. No. when placing your order





fixings and fasteners + tools





NOTE : please use Cat. No. when placing your order







TECHNICAL SPECIFICATIONS

STRAIGHT LENGTHS / DIVIDERS / COVERS	
54 mm deep tray (CF54)	44
FASCLIC AUTO (FCFA54) / FASCLIC (FCF54)	45 - 46
105 mm deep tray (CF105)	47
30 mm deep tray (CF30)	48
80 mm (CF80) / 150 mm (CF150) deep tray	49 - 50
G-tray (CFG) / HDF 105 / TRIHDF	51 - 53
Mini tray (TXF35) / flexible tray (G-MINI)	54 - 55
Straight length dividers (COT / COT J) /	
bend dividers (COTFIL / COTFILU)	56 - 57
Covers (CP / CVN) / cover clips (F01/02/03)	58
COUPLERS AND FIXING KITS	
Length to length couplers (EDRN / AUTOCLIC)	59 - 60
Joint strips (Z240 / ED250/90 / ED275 / ED1100)	61 - 62
Couplers (FASLOCK AUTO)	63
Base couplers (CEFAS / R15/25/35)	64 -65
Channel fixing (FASTRUT 41)	66
Fixing kits and components	67
WALL MOUNTING	
Base and side wire mounting (UC50 / CAT30 / CAT40 /	
CM50 / CM50XL)	68 - 71
Cantilever arms / mounting rails (CSN / CSNC / CB /	
CLN / CC21S / EDF / R41SP)	72 - 76
Stand-off brackets (R15/25/35/50)	77
Vertical mounting (FV1)	78
Fast fix support rails (RCSN)	79
	<u>80</u> 85
Traneze hangers $[\Lambda S / RCSN / FDE]$	86 88 - 89
Profile mounting (CSNC)	87
Pendant mounting (PEREDE / EDE / R/1SP / PER/1S)	90 <u>-</u> 91
	70 - 71
FLOOR / BEAM / OTHER MOUNTING	

Floor mounting		
(CM50XL / RCSN / R15/25/35/50 / FTX / UC50 /		
UFC / CSN)	92	- 98
Beam mounting (CLMFAS / CLMU / EDF / EF)	99 -	101
Universal mounting plates		
(CM50 / CM50XL / CAT40 / CM50XXL)	102 -	103
Take-off plates (SBDN)		104
Luminaire supports (SL50/100)		105
Multifix base plates (MFM / MFPOLYA)		105
Cabling accessories (DEV100 / DEV 50 / FAS ROLLER /		
CABLOGRIP / CLIP / PA)	106 -	108
Earthing (BLF / SBU / GRIFEQUIP / GRIFEQUIP 2)	108 -	109

straight lengths - CF54

technical information

54



have relatively sharp edges and protective gloves must be worn during handling

Sheared steel (particularly stainless steel) does

All dimensions (mm) are nominal

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm

Load tests carried out to IEC 61537 (safety factor 1.7 + joint 1/5 th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)





P2000 = supports at 2 000 mm, see **p. 136** for more information

P1500 = supports at 1 500 mm, see **p. 136** for more information

For more information on loadings, see p. 139

EZ Electrogalvanised after manufacture

- EZ+ Additional coating after electrogalvanisation (black)
- GC Hot dip galvanised after manufacture

For detailed information related to finishes, refer to p. 132-133

Couplers : see p. 59-67

Dividers : see p. 56-57

straight lengths - FCFA54 (FASCLIC AUTO) technical information





Please use Cat. No. when placing your order, see p. 12

All weights are given in Kilograms (kg) and are for a 3 m straight length

Assembly





Unclip integral couplers from delivery position. Slide base plate (if applicable) to accept secondary length. Clip coupler and base to secure

For 300 - 600 mm wide tray, additional base plates are supplied to aid connection (1 x for 300 mm, 2 x for 400 - 500 mm and 3 x for 600 mm tray)



ڬ must be worn during handling 👘

All dimensions (mm) are nominal

Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm

Load tests carried out to IEC 61537 (safety factor 1.7 + joint $^{1/_{5}\,\text{th}}$ of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)



P2000 = supports at 2 000 mm, see **p. 136** for more information **NOTE:**

For more information on loadings, see p. 139

Finishes

Standard stocked finish :

EZ Electrogalvanised after manufacture

For detailed information related to finishes, refer to p. 132-133



straight lengths - FCF54 (FASCLIC)

technical information



Dimensions and weights

ليك أنتظن 105 mm أليك 105 mm أليك 105 mm أليك ا



	CF105/15	0
	:	•
	CF105/20	0
	:j:	j:
	CF105/30	0
į		_;
	CF105/40	0
Ĺ		;
•	CF105/45	0
		j:
•	CF105/50	0

CF105/100

CF105/600

	· W		Weight	kg/3 m)				
	mm	EZ	GC	304L	<mark>316L</mark>			
CF105/100	100	4.07	4.23	3.50	3.50			
CF105/150	150	5.23	5.43	3.97	3.97			
CF105/200	200	6.13	6.37	5.14	5.14			
CF105/300	300	9∙15	9.51	7.92	7.92			
CF105/400	400	10.42	10.83	9.06	9.06			
CF105/450	450	11.25	11.40	9.45	9.45			
CF105/500	500	11.69	12.15	9.63	9.63			
CF105/600	600	12.96	13.46	10.20	10.20			

Please use Cat. No. when placing your order, see p. 13

All weights are given in Kilograms (kg) and are for a 3 m straight length

Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm

Load tests carried out to IEC 61537 (safety factor 1.7 + joint 1/5th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)





P1500 = supports at 1 500 mm, see **p. 136** for more information

NOTE:

For more information on loadings, see p. 139

Finishes

Standard stocked finish :

EZ Electrogalvanised after manufacture

Additional finishes :

- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304 L
- 316L Stainless steel 316 L

For detailed information related to finishes, refer to p. 132-133

🔶 Couplers : see p. 59-67

 \rightarrow Dividers : see p. 56–57

straight lengths - CF30

technical information



1 : 🔀 No safety edge

600

CF30/600

Please use Cat. No. when placing your order, see p. 13

8.78

All weights are given in Kilograms (kg) and are for a 3 m straight length

Sheared steel (particularly stainless steel) does

must be worn during handling

have relatively sharp edges and protective gloves

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm

Load tests carried out to IEC 61537 (safety factor 1.7 + joint 1/5 th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)





P1500 = supports at 1 500 mm, see **p. 136** for more information

NOTE:

For more information on loadings, see p. 139

Finishes

Standard stocked finish :

EZ Electrogalvanised after manufacture

Additional finishes :

- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304 L
- 316L Stainless steel 316 L
- For detailed information related to finishes, refer to p. 132-133

Couplers : see p. 59-67

Dividers : see p. 56-57

straight lengths - CF80 technical information

Dimensions and weights

. في المعنى: 40 mm بني 100 mm بني 80 mm بني 100 mm بني 3 m



	W	Weight	(kg/3 m)
	₩m	EZ	GC
CF80/100	100	2.84	2.95
CF80/200	200	4.39	4.56
CF80/300	300	6.85	7.12
CF80/400	400	7.82	8.12
CF80/500	500	8.78	9.12

Please use Cat. No. when placing your order, see p. 14

All weights are given in Kilograms (kg) and are for a 3 m straight length

Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1.7 + joint 1/₅th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)



P1500 = supports at 1 500 mm, see **p. 136** for more information

NOTE:

For more information on loadings, see p. 139

Finishes

Available finishes :

EZ Electrogalvanised after manufacture

GC Hot dip galvanised after manufacture

For detailed information related to finishes, refer to p. 132-133

 \triangle

Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling > Couplers : see p. 59–67

Dividers : see p. 56-57

straight lengths - CF150

technical information

Dimensions and weights

ن⊈ن 150 mm ↔ 200 mm → 900 mm ↔ 3 m





1 : No safety edge and base wires spaced at intervals of 50 mm and 100 mm for easy access (see below)

CF150/600

CF150/900



111

Please use Cat. No. when placing your order, see p. 14

All weights are given in Kilograms (kg) and are for a 3 m straight length

Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1.7 + joint $^{1/5}{}^{\rm th}$ of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)





NOTE:

For more information on loadings, see p. 139 For loading data for 600 mm and 900 mm widths please contact us on + 44 (0) 370 608 9020

Finishes

Available finishes :

EZ Electrogalvanised after manufacture

GC Hot dip galvanised after manufacture

For detailed information related to finishes, refer to p. 132-133



Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling

All dimensions (mm) are nominal

Couplers : see p. 59-67

Dividers : see p. 56-57

Dimensions and weights . ↓ ↓ 50 mm ↓ 100 mm → 200 mm ↔ 3 m 50 CFG50/100 Safety edge 50 CFG50/150 100 50 CFG50/200 Weight (kg/3 m) W ΕZ GC mm CFG50/100 100 2.84 2.95 CFG50/150 150 3.32 3.45 CFG50/200 200 4.39 4.56

Please use Cat. No. when placing your order, see p. 14 All weights are given in Kilograms (kg) and are for a 3 m straight length

Installation



Ceiling mounted Use CE40 (see p. 83) and fasteners (not supplied)



Wall mounted either by base or by G section Use CE40 (see p.83) and fasteners (not supplied)



Wall mounted using RCSN fast fit support rail See **p. 79**



Wall mounted using CM50XL universal mounting plate See **p. 71**



Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling

Couplers : see p. 59-67

Dividers : see p. 56-57



Available finishes :

EZ Electrogalvanised after manufacture

GC Hot dip galvanised after manufacture

For detailed information related to finishes, refer to p. 132-133

straight lengths - HDF105

technical information



GC Hot dip galvanised after manufacture

316L Stainless steel 316 L

For detailed information related to finishes, refer to p. 132-133

Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling

Dimensions and weights



Please use Cat. No. when placing your order, see p. 15

All weights are given in Kilograms (kg) and are for a 3 m straight length

Loading graph

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm Load tests carried out to IEC 61537 (safety factor 1·7 + joint 1/5th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)



P6000 = supports at 6 000 mm, see **p. 136** for more information

NOTE:

For more information on loadings, see p. 139

Finishes

Available finish :

GC Hot dip galvanised after manufacture

For detailed information related to finishes, refer to p. 132-133

Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling

mini steel wire cable tray – TXF35

technical information



flexible steel wire cable tray – G-MINI technical information



straight length dividers – COT / COT J

technical information



cable guide – COTFILU

technical information



 \rightarrow For CF 54 straight lengths : see p. 44

How to fabricate bends : see p. 114-117

covers and cover clips - CP - CVN - F01 - F02 - F03

technical information

CP – covers (2 m length) CVN – covers (1 m length) F01 / F02 / F03 – cover clips

CP - covers

Supplied singly in a 2 m length, CP covers are available for 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths

CVN - covers

Supplied in packs of 3×1 m lengths, CVN covers are available for 50 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths

F01 / F02 / F03 - cover clips Supplied in packs of 25, F01 clips are used with 30 mm deep tray; F02 clips are used with 54 mm, 105 mm and 150 mm deep tray and F03 clips are used with 80 mm deep tray. Clips can be used with both CVN and CP covers

Installation



CP and CVN covers can be fitted directly with integral tabs or alternatively with optional cover clips

Assembly

Securing CP / CVN covers to steel wire cable tray



Securing F01/F02/F03 cover clips to CVN / CP covers



Straight lengths : see p. 44-55

Dimensions and weights

 $\mathsf{CP} - \underbrace{123}{30 \rightarrow} 150 \ \mathsf{mm} \xrightarrow{\longleftarrow} 50 \rightarrow 600 \ \mathsf{mm} \xleftarrow{\longrightarrow} 2 \ \mathsf{m}$



	W		Weigł	nt (kg)	
	₩mm	GS	EZ+	GC	316L
CP50	71	1.21	1.26	1.31	1.21
CP100	121	1.68	1.76	1.82	1.68
CP150	171	2.15	2.25	2.33	2.15
CP200	221	2.62	2.75	2.84	2.62
CP300	322	3.57	3.75	3.87	3.57
CP400	425	5.68	6.78	6.56	6.05
CP450	475	6.95	_	7.40	6.90
CP500	525	6.85	8.19	7.92	7.31
CP600	625	8.03	9.59	9.28	8.57

CVN - ♀♀ 30 - 150 mm ♀ 50 → 600 mm ↔ 1 m



clips to secure covers

	W	W	eight (kg	I) ¹
	₩mm	GS	GC	316L
CVN50	71	1.80	1.95	1.81
CVN100	121	2.52	2.73	2.52
CVN150	171	3.21	3.48	3.21
CVN200	221	3.93	4.26	3.90
CVN300	322	5.37	5.79	_
CVN400	425	8.52	9.84	_
CVN450	475	9.39	10.86	-
CVN500	525	10.29	11.88	_
CVN600	625	12.06	13.92	_

1 : Weight per pack of 3 x 1 m lengths

F01/F02/F03 - ↓↓ 30 → 105 mm 💬 50 → 600 mm





couplers - length to length EDRN

EDRN – couplers

EDRN couplers are supplied with one fixing tool in each pack of 50 couplers. No additional fasteners or tools required

Installation



EDRN couplers are used in pairs across the side rail joint of two lengths of tray as shown

Assembly



Assembly (continued)

The table below indicates the recommended quantity of EDRN couplers required per width of steel wire cable tray Note: for base coupling, CEFAS (p. 64) can be used as an alternative to EDRN couplers

$A \rightarrow i j \leftarrow A$ = side coupling $i = base coupling$ B														
.⇔i →	5	50	1	00	1	50	20	00	3	00	400 =	♦ 500	60	00
••	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В
CF30	2	0	2	0	2	0	2	1	2	1	2	2	2	3
CF54	2	0	2	0	2	0	2	0	2	1	2	2	2	3
CF80	-	—	2	1	-	-	2	2	2	2	2	3	2	3
CF105	-	_	2	1	2	1	2	2	2	3	2	3	2	3
CF150	-	-	-	-	-	_	2	2	2	3	2	3	2	3

Dimensions and weights

ن⊈) 30 → 150 mm نظi 50 → 600 mm



	۷	Veight (k	g)		
	EZ	EZ+	DC		
EDRN	0.07	0.07	0.07		

Please use Cat. No. when placing your order, see p. 20 All weights are given in Kilograms (kg)

59

DC

Zinc rich coating

For detailed information related to finishes, refer to **p. 132-133**

couplers – length to length

AUTOCLIC – couplers

AUTOCLIC couplers are supplied in packs of 50. Rapid fit with screwdriver. No additional fasteners required

Installation



AUTOCLIC couplers are used in pairs across the side rail joint of two lengths of tray as shown

Assembly





1. Insert coupler

Twist into position
 Pull into place with screwdriver (not supplied)

Straight lengths : see p. 44-55



Assembly (continued)

The table below indicates the recommended quantity of AUTOCLIC couplers required per width of steel wire cable tray Note: wider widths need the addition of either CEFAS (p. 64) or KITASSTR (p. 67) to provide additional support to the base

A →í́́́Ļį́•	A -	= sid	e cou	ıpling	•[, ↑ B	= b	ase c	oupli	ng		
→i⊖ji. →	5	0	10	0	150	200	30	0	400 -	500	600	
••	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В
CF54	2	0	2	0	2	0	2	1	2	2	2	3
CF105	-	-	2	0	2	1	2	2		::	(;	

Dimensions and weights

·لِثِنَا 54 / 105 mm · الجَنَانِ 50 → 600 mm





Please use Cat. No. when placing your order, see p. 20 All weights are given in Kilograms (kg)

 65
 Pre-galvanised
 3

 6C
 Hot dip galvanised after manufacture
 3



Stainless steel 304 L

3041

For detailed information related to finishes, refer to **p. 132-133**



joint strips – length to length coupling z240

Z240 – joint strips

Use to provide additional support for length to length coupling of TRIHDF only

Fasteners are required to secure joint strips to the tray (see below) Z240 supplied in packs of 50 without fasteners

Installation



Joint strips attach to the side wire and base of the tray across the joint Fasteners required (not supplied)

Assembly



The table below indicates the recommended quantity of Z240 joint strips required to couple straight lengths together



Dimensions and weights

في i00 mm (for TRIHDF tray only) في i00 mm (for TRIHDF tray only)



joint strips – right angle coupling ED250/90

ED250/90 – joint strips

Use for onsite fabrication of tees or crossovers at right angles Fasteners are required to secure joint strips to the tray (see below)

Installation



Joint strips attach to the side wire of the tray across the joint Fasteners required (not supplied)

Assembly

R



Use 2 x BTRCC 6x20 + 2 x CE25 and 1 x ED250/90 per right angle bend

Dimensions and weights

ن£ن 30 → 150 mm 🖽 50 → 600 mm



		v	Neight (kg)				
	mm	EZ	GC	316L			
ED250/90	250	0.08	0.10	0.08			

Please use Cat. No. when placing your order, see p. 20 All weights are given in Kilograms (kg)



joint strips – length to length coupling ED275 - ED1100

ED275 – joint strips ED1100 – joint strips

Use to provide additional support for length to length coupling Fasteners are required to secure joint strips to the tray (see below) ED275 supplied in packs of 50 without fasteners ED1100 supplied singly without fasteners

Installation



Joint strips attach to the side wire of the tray across the joint when used as a length to length coupler. Fasteners required (not supplied)

Assembly





BTRCC 3x CE25 3x ED275 1x

For lighter loads, use a single fastener

For heavier loads, increase the number of fasteners

The table below indicates the recommended quantity of ED275/ED1100 joint strips per width and also KITASSTR (p. 67) as a base coupler

$A \rightarrow i _{A} = side coupling$

= base coupling (KITASSTR)

.⇔	5	0	10	00	1	50	20	00	30	00	400 - 50	450 / 00	60	00
	Α	в	Α	в	Α	В	Α	в	Α	в	Α	В	Α	в
CF30	2	0	2	0	2	0	2	1	2	1	2	2	2	3
CF54	2	0	2	0	2	0	2	0	2	1	2	2	2	3
CF80	-	-	1	1	_	-	2	1	2	2	2	3	_	-
CF105	-	-	2	1	2	1	2	1	2	2	2	3	2	3
CF150	-	-	-	-	-	-	2	2	2	2	2	3	2	3
CFG	_	_	2	1	2	1	2	1	-	_	-	-	_	-
HDF105	-	-	2	1	2	1	2	1	2	2	2	3	2	3

Dimensions and weights

·نِ⊈َنِ 30 → 150 mm الح 50 → 600 mm



		Weight (kg)						
	mmm⊤	EZ	GC	304L	316L			
ED275	275	0.08	0.10	0.08	0.08			
ED1100	1 100	0.49	0.55	-	0.38			

Please use Cat. No. when placing your order, see p. 20 All weights are given in Kilograms (kg)



All dimensions (mm) are nominal

Straight lengths : see p. 44–55

couplers – fabricated fittings FASLOCK AUTO

FASLOCK AUTO – couplers

FASLOCK AUTO is used to form radius bends

- For 100 mm and 200 mm wide steel wire cable tray use FASLOCK AUTO S (small)
- For 300 mm wide to 600 mm wide tray use FASLOCK AUTO XL (large)

Supplied in packs of 25. No additional fasteners or tools required For detailed installation instructions see p.113-115

Installation





FASLOCK AUTO is positioned on the internal angle of a radius bend after steel wire cable tray has been cut No fasteners required

Assembly



Installing FASLOCK AUTO : see p. 113-115

Dimensions and weights

·بَ‡: 30 / 54 / 105 mm ·⇔: 100 → 600 mm



	Weight (kg)								
	EZ ZN+ DC 316L								
FASLOCK AUTO S	0.01	0.01	0.01	0.01					
FASLOCK AUTO XL	0.01	0.01	0.01	0.01					

Please use Cat. No. when placing your order, see p. 21 All weights are given in Kilograms (kg)



DC Zinc rich coating

316L Stainless steel 316 L

For detailed information related to finishes, refer to **p. 132-133**

base couplers - length to length

CEFAS

CEFAS – base couplers

CEFAS couplers are used as base couplers in conjunction with EDRN or AUTOCLIC side rail couplers (p. 59-60). Can also be used as a luminaire support. Supplied in packs of 50. No additional fasteners or tools required

Installation



- Dimensions and weights
- £00 mm 💬 100 € ن⊈ن



	Weight (kg)						
	GS	DC	316L				
CEFAS	0.03	0.04	0.34				

Please use Cat. No. when placing your order, see p. 21 All weights are given in Kilograms (kg)



CEFAS used as a base coupler between two lengths of steel wire cable tray. No fasteners required

Assembly





L<mark>legr</mark>and

fixing components – channel fixings FASTRUT 41

FASTRUT 41 – channel fixing

Use to secure steel wire cable tray to channel support or channel type cantilever arms. Supplied in packs of 50. No additional fasteners required

Installation



FASTRUT 41 in situ holding steel wire cable tray down to channel length

Assembly



Push fit ASTRUT 41 on to base wire of the tray and clip into position



Straight lengths : see p. 44-55

For cantilever arms : see p. 72-76

Dimensions and weights

ن⊈: 30 → 150 mm 👾 100 → 600 mm







For detailed information related to finishes, refer to **p. 132-133**

fixing kits – length to length coupling KITASSTR - KITASSVS - KITFIXTR - KITFIXVS - KITINOX

Use for length to length coupling. Supplied in packs of 50

Installation



Fixing kits can be used to join two straight lengths. Use on both side wire and base of tray

Assembly

The table below indicates the recommended quantity of fixing kits required to couple straights lengths together

Side coupling

 $A \rightarrow \bullet$

Base coupling

.⇔i. →	5	0	10	00	1	50	2	00	3	00	400 =	450	50	00	60	00
	Α	В	Α	В	Α	В	Α	в	Α	В	Α	В	Α	в	Α	В
CF30 - CF54	2	0	2	1	2	1	2	1	2	2	2	2	2	2	2	3
CF80	-	-	2	1	-	-	2	1	2	2	2	2	2	3	2	3
CF105	-	-	2	1	2	1	2	1	2	2	2	3	2	3	2	3
CF150	-	-	-	-	-	-	2	2	2	2	2	3	2	3	2	3
CFG	-	-	2	1	2	1	2	1	-	_	-	-	_	_	-	-
HDF105	_	-	2	1	2	1	2	1	2	2	2	3	2	3	2	3

Dimensions and weights

KITASSTR

= CE25 + CE30 + BTRCC 6 × 20

KITASSVS



= CE25ES + CE30VS

KITFIXTR







KITINOX



Weight (kg) 316L ΕZ ZN+ DC 304L **KITASSTR** 0.03 0.03 0.03 0.03 **KITASSVS** 0.03 0.03 KITFIXTR 0.02 0.02 _ **KITFIXVS** 0.02 0.02 _ KITINOX 0.03 _ _ _ _ CE25 0.01 0.01 0.01 0.01 **CE30** 0.01 0.01 0.01 0.01 BTRCC6 x 20 0.01 0.01 0.01 0.01

Please use Cat. No. when placing your order, see p. 23 All weights are given in Kilograms (kg)



wall mounting – light duty

UC50 – support cradles

Use as a support cradle for 50 mm wide steel wire cable tray in 30 mm or 54 mm depths

Can be mounted directly onto the wall - horizontally or vertically, or onto wall mounted cantilever arms using fasteners (see below for assembly information)

Can also be ceiling mounted in conjunction with CEQ (see p. 81) or floor mounted (see p. 96). Supplied singly without fasteners

Installation









Mount directly onto wall using fasteners (not supplied)



Mount onto wall mounted cantilever arms using fasteners (not supplied)

Assembly

Securing UC50 to steel wire cable tray



Bend tabs with screwdriver to secure to steel wire cable tray

Securing UC50 to cantilever arm





Dimensions and weights

• نِ⊈َنَا 30 → 54 mm نَظْنَ 50 mm

15 x 7 30 x 7 05 45 704 35

	JFL	Weight (kg)						
	daN	GS	GC	304L	316L			
UC50	12	0.06	0.07	0.06	0.06			

Please use Cat. No. when placing your order, see p. 24 All weights are given in Kilograms (kg)





CAT30 – cantilever arm / wall fixing plates

Use to fix 50 mm wide steel wire cable tray in 30 mm or 54 mm depths directly onto the wall or onto wall mounted cantilever arms using fasteners (see below for assembly information) Supplied singly without fasteners

Installation



Mount directly onto the wall using fasteners (not supplied)



Mount onto wall mounting cantilever arms using fasteners (not supplied)

Assembly

Securing CAT30 to steel wire cable tray



Click to secure to steel wire cable tray

Securing CAT30 to cantilever arms



Dimensions and weights





	ĮF,	Weight (kg)							
	daN	GS	DC	304L	316L				
CAT30	20	0.03	0.03	0.03	0.03				

Please use Cat. No. when placing your order, see p. 24 All weights are given in Kilograms (kg)



wall mounting – light duty CAT40



CAT40 – channel / wall fixing plates

Use to fix 50 mm wide steel wire cable tray in 30 mm or 54 mm depths directly onto the wall or onto wall mounted channel support Attach to wall or channel support using fasteners (see below for assembly information)

assembly information) Can also be clipped onto most steel wire cable trays as an ancillary mounting plate (see p. 102). Supplied singly without fasteners

Installation



Mount directly onto wall using fasteners (not supplied)





Fixing without nuts and bolts

Mount onto wall mounted channel support using fasteners (not supplied)

Assembly

Securing CAT40 to steel wire cable tray



Click to secure to steel wire cable tray

Securing CAT40 to channel support



Use BTRCC 6 x 20 (see p. 41) to secure to channel support



316L Stainless steel 316 L

For detailed information related to finishes, refer to **p. 132-133**

All dimensions (mm) are nominal

Dimensions and weights

50 mm بَ⊈ْبُ 30 → 54 mm بَ



	JFL	We	Weight (kg)					
	daN	GS	DC	316L				
CAT40	20	0.04	0.04	0.04				

Please use Cat. No. when placing your order, see p. 24 All weights are given in Kilograms (kg)

For ancillary mounting : see p. 102




wall mounting – medium duty

CSN

CSN – profile cantilever arms INTERFAS – adaptor plate EPVCSN – end cap

CSN - profile cantilever arms

Use to support 100 mm to 450 mm wide steel wire cable tray in 30 mm and 54 mm depths. Can be wall mounted using fasteners (see below) or pendant drop mounted using EDF mounting rail (see p. 89-90) Incorporate slot and tab design for easy fixing Supplied singly without fasteners

INTERFAS - adaptor plate

Used as a tool-less mounting device to attach CSN profile cantilever arms to channel section Supplied singly

EPVCSN - end cap PVC end cap for CSN profile cantilever arms Supplied singly

Installation



Mount directly onto wall using fasteners (not supplied)



Slot CSN into INTERFAS. No additional fasteners required

Assembly

Securing CSN to channel



Dimensions and weights

100 → 54 mm ألك ألك أ

CSN



	L	JFL	Weight (kg)			
	, mm	daN	GS	GC	304L	316L
CSN100	178	130	0.37	0.40	0.40	0.40
CSN150	228	110	0.42	0.47	0.41	0.41
CSN200	278	85	0.47	0.53	0.51	0.51
CSN300	378	73	0.73	0.76	0.64	0.64
CSN400	478	56	0.82	0.92	-	-
CSN450	528	50	0.91	0.97	-	-

Please use Cat. No. when placing your order, see p. 25 All weights are given in Kilograms (kg)



Please use Cat. No. when placing your order, see p. 28 All weights are given in Kilograms (kg)

EPVCSN



Please use Cat. No. when placing your order, see p. 25 All weights are given in Kilograms (kg)

CSNC – profile roof cantilever arms

Use to support 100 mm to 450 mm wide steel wire cable tray in 30 mm



Weight (kg)

GC

0.65

0.72

0.80

1.35

1.38

1.47

316L

0.60

0.67

0.72

and 54 mm depths. Can be wall mounted using fasteners (see below) or ceiling mounted (see p. 87). Incorporate slot and tab design for easy 8.5 x 25 fixing. Supplied singly without fasteners 210 8 x 25 Installation 8 x 25 50 ġ.ġ L1 L2 JF, mm 'nm GS daN CSNC100 170 178 120 0.57 CSNC150 170 228 100 0.63 Mount directly onto wall using fasteners (not CSNC200 170 278 80 0.68 ed). Steel wire tray can be fitted CSNC300 288 378 70 1.30 arm of the cantilever CSNC400 288 478 48 1.36 CSNC450 288 528 44 1.40 (see assembly detail below) Please use Cat. No. when placing your order, see p. 25 All weights are given in Kilograms (kg) Assembly CSNC - securing cantilever arm to steel wire cable tray Fixing without Fast assempting nuts and bolts Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram Use BTRCC 6 x 20 + CE25 to x1 secure tray to the profile arm of the **CE25** cantilever x1` Key: GS 316L Stainless steel 316 L Pre-galvanised Hot dip galvanised after manufacture GC For detailed information related to finishes, refer to p. 132-133 For ceiling mounting : see p. 87 All dimensions (mm) are nominal

Dimensions and weights

100 → 54 mm 🖽 100 → 450 mm

Clegrand

wall mounting - medium duty

CB - EDF - R41SP









For ceiling (pendant) mounting : see p. 90-91

316L

2.48

304L

2.48

Hot dip galvanised after manufacture to finishes, refer to p. 132-133

All dimensions (mm) are nominal

wall mounting - medium duty CLN - CC21S



CLN – cantilever arms

Use to support 100 mm to 300 mm wide steel wire cable tray in 30 mm to 54 mm depths. Wall mount using fasteners. Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

Installation



E

Mount directly onto wall using fasteners (not supplied)

Assembly

Securing CLN to steel wire cable tray







Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram

Dimensions and weights

نِ⊈َنِ 30 → 54 mm 👾 100 → 300 mm



	L mḿ	H‡ mm	_F daN	Weigh GS	nt (kg) GC
CLN100	100	125	95	0.16	0.20
CLN150	150	125	70	0.19	0.23
CLN200	200	125	40	0.23	0.27
CLN300	300	125	25	0.29	0.33

Please use Cat. No. when placing your order, see p. 26 All weights are given in Kilograms (kg)





Use to support 100 mm to 300 mm wide steel wire cable tray in 30 mm or pendant drop mounted. Supplied singly without fasteners

CC21S – cantilever arms



BTRCO

6 X 20

CE 25

upwards

Secure to steel wire cable tray using fasteners when flat

surface is facing



Mount tray to top or base side of the cantilever arm using fasteners (not supplied). See assembly detail below

Assembly

Securing CC21S to steel wire cable tray



Secure to steel wire cable tray using FASTRUT 41 when grooved edge is facing upwards

Dimensions and weights

100 → 105 mm نظن 100 → 300 mm

140		1	NOTE : cantilev	Overall ler er arm is r of tray due	ngth (L) of CC21S not equal to width e to curve
	L mm	_F daN	Weigh GS	nt (kg) <u>316L</u>	
CC21S150	150	135	0.33	0.36	
CC21S200	200	108	0.39	0.42	
CC21S300	300	80	0.46	0.50	-
CC21S400	400	92	0.55	0.59	

Please use Cat. No. when placing your order, see p. 27 All weights are given in Kilograms (kg)

Key: GS Pre-galvanised 316L Stainless steel 316 L

Hot dip galvanised after GC manufacture

For detailed information related to finishes, refer to **p. 132-133**

All dimensions (mm) are nominal



R15/25/35 – stand-off brackets – couplers R50 – stand-off brackets

R15/25/35 - stand-off brackets Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths directly onto the wall. Can be used for horizontal and vertical mounting of cable tray runs. Can also be used for floor mounting (see p. 94) and as a base coupler (see p. 65). Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

R50 - stand-off brackets Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths directly onto the wall. Can be used for horizontal and vertical mounting of cable tray runs. Can also be used for floor mounting (see p. 94). Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

Installation



Mount directly onto wall using fasteners (not supplied). Vertical mounting of tray shown - horizontal mounting also possible



Mount directly onto wall using fasteners (not supplied). Vertical mounting of tray shown - horizontal mounting also possible

Assembly

Securing R15/25/35/50 to steel wire cable tray



Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram

NOTE :

200 to 300 mm wide tray requires 2 x brackets mounted side by side across the width of the tray. 400 to 600 mm wide tray requires 3 x brackets



For floor mounting : see p. 94

Dimensions and weights

R15/25/35 ↓ 30 → 105 mm ↔ 100 → 600 mm





	Ht	L	JFL	v	g)	
	n ⊔ mm	₩ mm	daN	GS	ZM	316L
R15/100	15	98	100	0.14	0.09	0.09
R15/300	15	300	100	0.38	0.41	-
R25	25	98	100	0.13	0.12	-
R35	35	98	50	0.15	0.14	-

Please use Cat. No. when placing your order, see p. 27 All weights are given in Kilograms (kg)

Fixing without

assembling nuts and bolts

Fast

R50 ↓ 30 → 105 mm ↔ 100 → 600 mm



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wall mounting – vertical mounting ^{FV1}



FV1 – mounting bracket Dimensions and weights Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths directly onto the wall. Can be used for vertical mounting of cable tray runs. Incorporates slot and tab design for easy fixing. Supplied singly without fasteners · ↓ ↓ 30 → 105 mm ↓ ↓ 100 → 600 mm Installation Weight (kg) JF, 316L GS DC daN FV1 100 0.31 0.31 0.25 Please use Cat. No. when placing your order, see p. 27 All weights are given in Kilograms (kg) Mount directly onto wall using fasteners (not supplied) Assembly Securing FV1 to steel wire cable tray Fixing without Fas assempling nuts and bolts Bend tabs with screwdriver or pliers to secure FV1 to base of tray Key: Gs Pre-galvanised 316L Stainless steel 316 L Zinc rich coating DC For detailed information related to finishes, refer to **p. 132-133** All dimensions (mm) are nominal



RCSN – fast fix support rails

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths directly onto the wall. Can be used for horizontal and vertical mounting of cable tray runs. Can also be used for ceiling mounting (see p. 85, 88) and for floor mounting (see p. 93, 98) Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

Installation



Assembly



Slot base wires of the tray into the support rail and bend tabs with screwdriver to secure, as shown in the FAS diagram above



to wall



18 mm spacing from underside of base wire

J

Fixing without nuts and bolts



·لِثِنَا: 30 → 105 mm أَلْتَنَا: 100 → 600 mm



	L	JFL	Weight (kg)					
	mm	daN	GS	EZ+	GC	304L	316L	
RCSN150	150	100	0.16	-	0.17	-	0.16	
RCSN200	200	100	0.23	-	0.23	-	0.22	
RCSN300	300	100	0.33	-	0.36	-	0.33	
RCSN400	400	100	0.38	-	0.49	-	0.45	
RCSN500	500	100	0.54	-	0.61	-	0.59	
RCSN550	550	100	0.63	-	0.65	-	-	
RCSN600	600	100	0.67	-	0.70	-	0.69	
RCSN700	700	100	0.78	-	-	-	-	
RCSN1000	1 000	100	1.18	-	1.23	-	1.21	
RCSN2000	2 0 0 0	100	2.20	-	2.42	2.30	2.30	
RCSN3000	3 000	100	3.54	3.45	3.78	3.65	3.65	

Please use Cat. No. when placing your order, see p. 28

All weights are given in Kilograms (kg)

For ceiling mounting : see p. 85, 88	Key:	GS	Pre-galvanised	316L	Stainless steel 316 L
For floor mounting : see p. 93. 98		EZ+	Additional coating after electrogalvanisation (black)	304L	Stainless steel 304 L
S For been mounting see n 00		GC	Hot dip galvanised after manufacture	For c to fir	detailed information related ishes, refer to p. 132-133
	All dime	ensions	(mm) are nominal		

ceiling mounting – central hangers SF50 - SF100 - SL50



SF50 – SF100 – central hangers

Used with threaded rod and fasteners to form a central hanger to suspend steel wire cable tray from ceiling. Can also be bolted directly to the ceiling

Use SF50 for 50 mm wide steel wire cable tray in 30 mm and 54 mm depths and SF100 for 100mm wide tray in 30 mm and 54 mm depths Incorporates slot and tab design for easy fixing Supplied singly without fasteners

Installation





SF50 and SF100 used to suspend tray from ceiling with threaded rod and fasteners (not supplied). Provision of base hole enables easy access for installation





Bolted directly to ceiling.

Suspended with threaded rod and fasteners (not supplied)

Fasteners not supplied



Please use Cat. No. when placing your order, see p. 29 All weights are given in Kilograms (kg)

SL50 – luminaire support (used as central hanger)

Use as a central hanger to suspend 50 mm wide steel wire cable tray Supplied singly. Threaded rod and fasteners not supplied Also used as a luminaire support, see p. 105

Installation and assembly



SL50 clips onto the side rail of the tray. No fasteners required to secure bracket to tray

. نِ⊈ن 30 → 54 mm نِظٍن 50 mm Ø7 x 25

Dimensions and weights

SL 50

	H‡ mm	_F daN	Weight (kg) GS
SL50	56	150	0.19

For luminaire support : see p. 105

73

Please use Cat. No. when placing your order, see p. 29 All weights are given in Kilograms (kg)

CEQ – central hanger brackets + UC50 – support cradles

CEQ - central hanger brackets

Use with UC50, threaded rod and fasteners to form a central hanger to suspend 50 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling Supplied singly without fasteners

UC50 - support cradles

Use as a support cradle for 50 mm wide steel wire cable tray in 30 mm or 54 mm depths

Can be ceiling mounted in conjunction with CEQ or floor mounted (see p. 96). Can also be mounted directly onto the wall - horizontally or vertically, or

Can also be mounted directly onto the wall - horizontally or vertically, or onto 41 mm channel profiles (see p. 68) Supplied singly without fasteners

Installation





Slot alignment allows for

onsite adjustment

CEQ + UC50 used to suspend tray from ceiling with threaded rod and fasteners (not supplied)

Assembly



Dimensions and weights

50 mm الأليب: 30 → 54 mm

CEQ



UC50



	JFL	Weight (kg)				
	daN	GS	GC	304L	316L	
CEQ	12	0.08	0.08	-	0.08	
UC50	12	0.06	0.07	0.06	0.06	

Please use Cat. No. when placing your order, see p. 29 All weights are given in Kilograms (kg)

ceiling mounting – central hangers SAS

Assembly SAS – suspension hangers Suspending SAS from ceiling Use with threaded rod and fasteners to form a central hanger to suspend 100 mm and 150 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling Incorporates slot and tab design for easy fixing Supplied singly without fasteners **TR06** (x1) Installation Use TR06 (M6 x 3m) threaded rod and 2 x EEC6 (6mm) hex nuts (not supplied) to suspend SAS from ceiling البنا: 100 mm EEC6 (x2) Securing SAS to steel wire cable tray R Fixing without assem nuts and bolts Base wires of the tray fix into hanger tabs. No additional fixings required to secure tray to SAS hanger Use blade of screwdriver to click SAS 100 mm tray widths Mount SAS along the length of the tray when using 100 mm firmly into place wide steel wire cable tray Use with threaded rod and fasteners (not supplied) Dimensions and weights 100 → 54 mm نظن 100 → 150 mm .i⇔i 150 mm 10 x 10 30 x 8 140 Weight (kg) JF, ΕZ DC daN SAS 60 0.03 0.03 Please use Cat. No. when placing your order, see p. 30 150 mm tray widths All weights are given in Kilograms (kg) Mount SAS across the width of the tray when using 150 mm wide steel wire cable tray. Use with threaded rod and fasteners (not supplied) Note : The threaded rod will sit off centre due to the position of the base wire in the tray length **G-MINI**



Mount SAS along the length of G-MINI steel wire cable tray Use with threaded rod and fasteners (not supplied)

Key: EZ

Electrogalvanised after

manufacture



For detailed information related to finishes, refer to p. 132-133

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CE40 – hold down clamps (used as central hangers)

Use in a pair with threaded rod and fasteners to form a central hanger to suspend 100 mm to 200 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling Supplied in packs of 25 without fasteners

Installation



CE40 used to suspend tray from ceiling with threaded rod and fasteners (not supplied)

Assembly

Suspending CE40 from ceiling



Securing CE40 to steel wire cable tray

Use 2 x CE40, one on the top side and one to the underside of the tray. Secure with 2 x EEC6 hex nuts, as shown above

Dimensions and weights

·(‡) 30 → 54 mm (📛 100 → 200 mm Ø8-5 Weight (kg) JF. ΕZ ZN+ DC 3041 3161 daN **CE40** 0.04 0.04 0.04 0.040.04100 Please use Cat. No. when placing your order, see p. 30 All weights are given in Kilograms (kg) Key: GS Pre-galvanised Zinc rich coating DC Electrogalvanised after Stainless steel 304 L ΕZ manufacture Additional coating after Stainless steel 316 L EZ+ 316L electrogalvanisation (black) Zinc nickel plus additional coating (black) Hot dip galvanised after For detailed information related GC manufacture to finishes, refer to p. 132-133 All dimensions (mm) are nominal To create radius bends : see p. 114–117

CM50XL – universal mounting plates (large)

Use with threaded rod and fasteners to form a central hanger to suspend 100 mm to 200 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling

Can also be used for horizontal and vertical wall mounting of cable tray runs (see p. 71) and for floor mounting (see p. 92) Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

Installation



CM50XL used to suspend tray from ceiling with threaded rod and fasteners (not supplied)

Assembly Suspending CM50XL from ceiling



Use TR06 (M6 x 3m) threaded rod and 2 x EEC6 (6mm) hex nuts (not supplied) to suspend CM50XL from ceiling

Securing CM50XL to steel wire cable tray



Bend tabs using a flat blade screwdriver or pair of pliers to secure to steel wire cable tray

Fixing without

g nuts and bolts

Dimensions and weights

100 → 54 mm بَنْبُ 100 → 200 mm بَعْنَان



For ancillary mounting : see p. 102

ceiling mounting – central hangers SCF - PFSCF - EXT-SCF





SCF – central hangers + PFSCF – locating ceiling plate + EXT-SCF - rod sheaths

SCF - central hangers Use with threaded rod and fasteners to form a central hanger to suspend 200 mm to 600 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling. Incorporates slot and tab design for easy fixing. Used in conjunction with PFSCF locating ceiling plate and EXT-SCF rod sheath. Supplied singly without fasteners

PFSCF - locating ceiling plate Locating plate for use with SCF. Supplied singly without fasteners

EXT-SCF - rod sheaths

Extension rod sheath for use with SCF. EXT-SCF helps to protect cables from damage. Supplied singly without fasteners

Installation



SCF central hanger in situ with PFSCF locating ceiling plate and EXT-SCF rod sheath covering threaded rod





2 x SCF can be used in a

PFSCF can be used to

stabilise the installation

spread the load and further

tier arrangement

SCF can support 2 x tray runs up to 200 mm wide side by side



EXT-SCF can be used with threaded rod of any length

Assembly

Suspending SCF from ceiling



Installation steps

1) Install threaded rod into ceiling fixing, such as ceiling anchor (not supplied)

2) On floor level, assemble cable tray onto SCF

3) Attach EXT-SCF rod sheath and PFSCF locating ceiling plate to SCF central hanger

4) Offer assembly up to pre-fitted threaded rod

5) Secure assembly with washers and hexagon nuts



SCF - ⁱ → 54 mm ⁱ → 200 → 600 mm



	L mm	氏 daN	 daN	Weight (kg) GS
SCF200	194	200	37	0.27
SCF300	294	160	29	0.39
SCF400	394	141	23	0.51
SCF450	444	130	20	0.57
SCF500	494	121	20	0.64
SCF600	594	99	19	0.78

Please use Cat. No. when placing your order, see p. 31 All weights are given in Kilograms (kg)

> Weight (kg) GS

PFSCF – 1 30 → 54 mm 💬 200 → 600 mm



100 0.08

EXT-SCF – ⁽¹) 30 → 54 mm ⁽¹⁾ 200 → 600 mm



	L mm	H Ì mm	Weight (kg) GS
EXT-SCF50	50	200	0.10
EXT-SCF100	100	250	0.11
EXT-SCF150	150	300	0.12
EXT-SCF325	325	475	0.20

Please use Cat. No. when placing your order, see p. 31 All weights are given in Kilograms (kg)

Key: GS Pre-galvanised

For detailed information related to finishes, refer to p. 132-133

All dimensions (mm) are nominal



UCS – ceiling support brackets + RCSN – fast fix support rails

UCS - ceiling support brackets Use with RCSN or channel to form a central hanger to suspend 2 parallel runs of 50 mm (100 mm using RSCN) to 300 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling Supplied singly without fasteners

RCSN - fast fix support rails

Use with UCS (above) or threaded rod to form a central hanger to suspend steel wire cable tray from the ceiling. Can also be used for horizontal and vertical wall mounting of cable tray runs (see p. 79) and for floor mounting (see p. 93, 98) Incorporates slot and tab design for easy fixing. Supplied singly without

fasteners

Installation



UCS ceiling support bracket + RCSN fast fix support rail to support 2 x parallel runs of steel wire cable tray from the ceiling





UCS and channel supporting

parallel runs of cable tray

UCS and RCSN supporting parallel runs of cable tray

Assembly



Use BTRL 8 x 15 fasteners to secure RCSN support rail or channel support to UCS

Securing RCSN to steel wire cable tray





Slot base wires of the tray into the RCSN support rail and bend tabs with screwdriver to secure, as shown in the FAS diagram above $% \left({{\rm A}} \right)$



Assembly (continued)

Securing channel support to steel wire cable tray



Use FASTRUT 41 (see p. 22) to secure steel wire cable tray to channel lengths

Dimensions and weights

UCS - ﻧِבָּוֹ 30 → 54 mm ·⊖ 50 → 300 mm



	L	\odot	Weight (kg)		
	mm	daN.m	GS	GC	316L
UCS	100	18	0.51	0.51	0.51

Please use Cat. No. when placing your order, see p. 31 All weights are given in Kilograms (kg)

RCSN – 105 mm ↔ 100 → 600 mm



		Weight (kg)					
	mm	GS	EZ+	GC	304L	316L	
RCSN150	150	0.16	-	0.17	-	0.16	
RCSN200	200	0.23	-	0.23	-	0.22	
RCSN300	300	0.33	-	0.36	-	0.33	
RCSN400	400	0.38	-	0.49	-	0.45	
RCSN500	500	0.54	-	0.61	-	0.59	
RCSN550	550	0.63	-	0.65	-	-	
RCSN600	600	0.67	-	0.70	-	0.69	
RCSN700	700	0.78	-	-	-	-	
RCSN1000	1 000	1.18	-	1.23	-	1.21	
RCSN2000	2 000	2.20	-	2.42	2.30	2.30	
RCSN3000	3 000	3.54	3.45	3.78	3.65	3.65	
Please use Ca	at. No. wl e given in	nen placi Kilograms	ng your c s (kg)	order, see	р. 33		



ceiling mounting – trapeze AS



AS – suspension hooks

Use with threaded rod and fasteners to form a trapeze hanger to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling. Supplied singly without fasteners

Installation



AS suspension hook suspending wire tray from the ceiling with threaded rod and fasteners (not supplied)

TR06 TR08 TR10

EEC6

+ HN 10

Use TR06 / 08 or 10 (M6 / M8 / M10

threaded rod and 4 x EEC6 / 8 or 4 ± + FW10 hex nuts and flat washers

(not supplied) to suspend AS from ceiling

M 8 M 10

۷4

Q

Assembly

Suspending AS from ceiling



Bend tab upwards to lock threaded rod into place

Securing AS to steel wire cable tray



Dimensions and weights

نِ⊈ن 30 → 105 mm نِ⊈ن 100 → 600 mm



Please use Cat. No. when placing your order, see p. 32 All weights are given in Kilograms (kg)

CSNC – profile roof cantilever arms

Use to support 100 mm to 450 mm wide steel wire cable tray in 30 mm to 105 mm depths. Can be mounted directly to the ceiling using fasteners (not supplied) to form a pendant drop or can be wall mounted (see p. 73). Incorporates slot and tab design for easy fixing Supplied singly without fasteners

EPVCSN - profile cantilever arm PVC end cap for CSN profile cantilever arms Supplied singly

Installation



Mount directly onto ceiling using fasteners (not supplied)





Support single runs of steel wire cable tray using one ceiling mounted cantilever arm

Mount cantilever arms back to back to run two horizontal runs of steel wire cable tray

Assembly

E Securing CSNC cantilever arm to steel wire cable tray



Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram above

For wall mounting : see p. 73













	. 0 0	• • •
	160	210
<u>L</u>		

	L1	L2	JFL	Weight (kg)		
	₩mm	₩mm	daN	GS	GC	316L
CSNC100	170	178	120	0.57	0.65	0.60
CSNC150	170	228	100	0.63	0.72	0.67
CSNC200	170	278	80	0.68	0.80	0.72
CSNC300	288	378	70	1.30	1.35	-
CSNC400	288	478	48	1.36	1.38	-
CSNC450	288	528	44	1.40	1.47	-

Please use Cat. No. when placing your order, see p. 32 All weights are given in Kilograms (kg)

EPVCSN



ceiling mounting – trapeze RCSN

Use with threaded rod and fasteners to form a trapeze hanger to

suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to

RCSN – fast fix support rails

105 mm depths from the ceiling



Can be mounted directly onto the wall (see p. 79) or floor mounted (see p. 93, 98) Incorporates slot and tab design for easy fixing. Supplied singly without fasteners Installation RCSN support rails suspending wire tray from the ceiling with threaded rod and fasteners (not supplied) Assembly Suspending RSCN from ceiling TR06 TR08 Use 2 x TR06 or TR08 (M6 / M8 x 3m) threaded rod and 4 x EEC6 or EEC8 (6 c EEC6 8mm) hex nuts (not supplied) to suspend RSCN from ceiling x4 EEC8

Securing RCSN support rail to steel wire cable tray



		Weight (kg)						
	mmm⊤	GS	EZ+	GC	304L	316L		
RCSN150	150	0.16	-	0.17	-	0.16		
RCSN200	200	0.23	-	0.23	-	0.22		
RCSN300	300	0.33	-	0.36	-	0.33		
RCSN400	400	0.38	-	0.49	-	0.45		
RCSN500	500	0.54	-	0.61	-	0.59		
RCSN550	550	0.63	-	0.65	-	-		
RCSN600	600	0.67	-	0.70	-	0.69		
RCSN700	700	0.78	-	-	-	-		
RCSN1000	1 000	1.18	-	1.23	-	1.21		
RCSN2000	2 000	2.20	-	2.42	2.30	2.30		
RCSN3000	3 000	3.54	3.45	3.78	3.65	3.65		

Please use Cat. No. when placing your order, see p. 33

All weights are given in Kilograms (kg)



Fixing without

nuts and bolts

Fast g

assemblir



EDF – profile pendants / mounting rails

Use with threaded rod and fasteners to form a trapeze hanger to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling or use with PFREDF to form a pendant installation (opposite)

Can be mounted directly onto the wall for use with cantilever arms (see p. 74-75) Supplied singly without fasteners

Installation



EDF mounting rails suspending wire tray from the ceiling with threaded rod and fasteners (not supplied)

Assembly

Suspending EDF from ceiling - trapeze mounting



Use 2 x TR06 or TR08 (M6 / M8 x 3m) threaded rod and 4 x EEC6 or EEC8 (6 or 8 mm diameter) hex nuts (not supplied) to suspend EDF from ceiling

Securing EDF mounting rail to steel wire cable tray



Use 1 x BTRCC 6 x 20 and 1 x CE25 to secure 50 mm to 200 mm tray to EDF For 300 mm to 600 mm tray use 2 x BTRCC 6 x 20 and 2 x CE25

Dimensions and weights

it i 30 → 105 mm i i 100 → 600 mm



L L = W (tray width)

+ 50 mm

To cut the correct size EDF for trapeze hanging, add 50 mm to the chosen tray width to allow for fixing of threaded rod either side of the tray, e.g. if using 200 mm wide tray, cut EDF to 250 mm wide



Please use Cat. No. when placing your order, see p. 33 All weights are given in Kilograms (kg)



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ceiling mounting – pendant PFREDF



PFREDF

Use as a ceiling mounting plate in conjunction with EDF to form a pendant drop to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling via cantilever arms (see p. 72-76)

Incorporates slot and tab design for easy fixing of EDF Supplied singly without fasteners

EDF

Use with threaded rod and fasteners to form a trapeze hanger to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling or use with PFREDF to form a pendant installation (see below)

Can be mounted directly onto the wall for use with cantilever arms (see p. 74-75) Supplied singly without fasteners

Installation



PFREDF pendant mounting plate with EDF mounting rail. Secure to ceiling using fasteners (not supplied)



Dimensions and weights

نِ£ن 30 → 105 mm نِظ 100 → 600 mm



	daN.m	GS	316L
PFREDF	18	0.51	0.51

Please use Cat. No. when placing your order, see p. 33 All weights are given in Kilograms (kg)

Weight (kg)



R41SP – pendants / mounting rails (heavy duty) PFR41S – pendant mounting plates (heavy duty)

R41SP

Use with PFR41S to form pendant drop to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling Supplied singly without fasteners

PFR41S

Use as a ceiling mounting plate in conjunction with EDF to form a pendant drop to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling via cantilever arms (see p. 72-76)

Incorporates slot and tab design for easy fixing of EDF Supplied singly without fasteners

Installation



PFR41S pendant mounting plate with R41SP mounting rail. Secure to ceiling using fasteners (not supplied)





Dimensions and weights

R41SP 🖽 30 → 105 mm 🖽 100 → 600 mm



	L mm	mm	We (k GS	ight g) EZ+
R41SP3000	3000	2	5.6	5.6

Please use Cat. No. when placing your order, see p. 33 All weights are given in Kilograms (kg)

PFR41S





	Ć ∵ daN.m	Weight (kg) GS
PFR41S	45	0.69

Please use Cat. No. when placing your order, see p. 33
All weights are given in Kilograms (kg)

floor mounting CM50XL

CM50XL – universal mounting plates (large)

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to

150 mm depths directly to the floor For 200 mm and 300 mm wide tray, use 2 x CM50XL across the width For 400 mm to 600 mm wide tray, use 3 x CM50XL across the width Can also be used for wall mounting (see p. 71) and to suspend cable tray runs from the ceiling (see p. 83) Incorporate slot and tab design for easy fixing. Supplied singly without factoror

fasteners

Installation



Dimensions and weights

·نِثِنَ 30 → 150 mm · نِنْبَ 100 → 600 mm





Please use Cat. No. when placing your order, see p. 34

All weights are given in Kilograms (kg)

Mount tray runs on the floor using CM50XL and fasteners (not supplied)

Assembly

Securing CM50XL to steel wire cable tray











RCSN – fast fix support rails

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths directly to the floor Can also be used for wall mounting (see p. 79) and to suspend cable tray runs from the ceiling (see p. 85, 88) Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

Installation







18

18 mm spacing from underside of base wire to floor

		Weight (kg)					
	mm⊤	GS	EZ+	GC	304L	316L	
RCSN150	150	0.16	-	0.17	-	0.16	
RCSN200	200	0.23	-	0.23	-	0.22	
RCSN300	300	0.33	-	0.36	-	0.33	
RCSN400	400	0.38	-	0.49	-	0.45	
RCSN500	500	0.54	-	0.61	-	0.59	
RCSN550	550	0.63	-	0.65	-	-	
RCSN600	600	0.67	-	0.70	-	0.69	
RCSN700	700	0.78	-	-	-	-	
RCSN1000	1 000	1.18	-	1.23	-	1.21	
RCSN2000	2 0 0 0	2.20	-	2.42	2.30	2.30	
RCSN3000	3 000	3∙54	3.45	3.78	3.65	3.65	

Please use Cat. No. when placing your order, see p. 34

All weights are given in Kilograms (kg)



Fixing without nuts and bolts assen g

Slot base wires of the tray into the RCSN support rail and bend tabs with screwdriver to secure, as shown in the FAS diagram above

Key	: GS	Pre-galvanised	316L	Stainless steel 316 L
	EZ+	Additional coating after electrogalvanisation (black)	304L	Stainless steel 304 L
	GC	Hot dip galvanised after manufacture	For d to fin	letailed information related ishes, refer to p. 132-133
	Key	Key: 65 EZ+ 6C	Key: GS Pre-galvanised EZ Additional coating after electrogalvanisation (black) GC Hot dip galvanised after manufacture	Key: GS Pre-galvanised 316L EZ+ Additional coating after electrogalvanisation (black) 304L GC Hot dip galvanised after manufacture For or to fin

floor mounting

R15/25/35 - R50

R15/25/35 – stand-off brackets R50 – stand-off brackets

R15/25/35 - stand-off brackets

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths directly onto the floor. For 200 mm and 300 mm wide tray, use 2 x brackets across the width. For 400 mm to 600 mm wide tray, use 3 x brackets across the width. Can also be used for wall mounting (see p. 77). Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

R50 - stand-off brackets

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths directly onto the floor. For 200 mm and 300 mm wide tray, use 2 x brackets per length. For 400 mm to 600 mm wide tray, use 3 x brackets per length. Can also be used for wall mounting (see p. 77). Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

Installation



Mount tray runs on the floor using R15/25/35 and fasteners (not supplied)



Mount tray runs on the floor using R50 and fasteners (not supplied)

Assembly

Securing stand-off brackets to steel wire cable tray



For wall mounting : see p. 77

For base coupling : see p. 65

above



Dimensions and weights

R15/25/35 ن⊈ن 30 → 150 mm 📛 100 → 600 mm



	mm	mm	daN	GS	ZM	316L
R15/100	15	98	100	0.14	0.09	0.09
R15/300	15	300	100	0.38	0.41	-
R25	25	98	100	0.13	0.12	-
R35	35	98	50	0.15	0.14	-

Please use Cat. No. when placing your order, see p. 34 All weights are given in Kilograms (kg)

R50 ·↓↓ 30 → 150 mm ·↓↓ 100 → 600 mm

All dimensions (mm) are nominal



FTX – base fixing plates

Use to fix 35 mm to 600 mm wide steel wire cable tray in 30 mm, 54 mm and 105 mm depths directly onto the floor. For 200 mm and 300 mm wide tray, use 2 x brackets across the width. For 400 mm to 600 mm wide tray, use 3 x brackets across the width. Supplied singly without fasteners

Installation



FTX used with TXF35

Attach FTX along the length of 50 mm wide tray and TXF35 tray. Secure to the floor using fasteners (not supplied)





Attach FTX across the width of 100 mm to 600 mm wide tray. Secure to the floor using fasteners (not supplied)

Assembly

Securing stand-off brackets to steel wire cable tray





Fixing without nuts and bolts

Click to secure to steel wire cable tray

Dimensions and weights

• بَ⊈ٍنَ 30 /54 / 105 mm · بَ⊈َنَ 30 /54 / 105 mm



	Weight (kg)					
	GS DC 316L					
FTX	0.25	0.20	0.20			

Please use Cat. No. when placing your order, see p. 35 All weights are given in Kilograms (kg)



Clegrand

floor mounting UC50

UC50 – support cradles

Use as a support cradle for 50 mm wide steel wire cable tray in 30 mm Can also be used for wall mounting (see p. 68) and to suspend cable tray runs from the ceiling (see p. 81). Supplied singly without fasteners

Installation



Dimensions and weights

. نِ⊈ن 30 **→** 54 mm نِ⊈ن 50 mm



	daN	GS	GC	304L	<mark>316L</mark>
UC50	12	0.06	0.07	0.06	0.06

Please use Cat. No. when placing your order, see p. 35 All weights are given in Kilograms (kg)

Pre-galvanised

manufacture

All dimensions (mm) are nominal

Hot dip galvanised after

304L

316L

Stainless steel 304 L

Stainless steel 316 L

For detailed information related to finishes, refer to **p. 132-133**

96

For ceiling mounting : see p. 81





UFC – clamp unit / CSN – profile cantilever arms

UFC - clamp unit

Use in conjunction with CSN cantilever arms or RCSN mounting rail (see p. 98) to clamp to underfloor pedestal supports, forming an underfloor support for steel wire cable tray runs Supplied singly with U bolt and fasteners

CSN - profile cantilever arms Use to support 100 mm to 450 mm wide steel wire cable tray in 30 mm and 54 mm depths. Can be wall mounted (see p. 72) or pendant drop mounted using EDF mounting rail (see p. 89-90). Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

EPVCSN - end cap PVC end cap for CSN profile cantilever arms Supplied singly

Installation







E

CSN is secured to UFC using U bolt and fasteners (supplied)

Assembly Securing CSN to steel wire cable tray



Fixing without assen nuts and bolts

Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram above



UFC نِ⊈َبَ 30 → 105 mm نِ⊈َبَ 30 → 600 mm



Note: When used in conjunctions with CSN, tray widths and depths that can be supported by UFC are lower - see CSN below



Please use Cat. No. when placing your order, see p. 35

All weights are given in Kilograms (kg)

CSN : ↓ 30 → 54 mm : ↓ 100 → 450 mm





		JFL	Weight (kg)			
	, mm	daN	GS	GC	304L	316L
CSN100	178	30	0.37	0.40	0.40	0.40
CSN150	228	110	0.42	0.47	0.41	0.41
CSN200	278	85	0.47	0.53	0.51	0.51
CSN300	378	73	0.73	0.76	0.64	0.64
CSN400	478	56	0.82	0.92	-	-
CSN450	528	50	0.91	0.97	-	_

Please use Cat. No. when placing your order, see p. 25 All weights are given in Kilograms (kg)

EPVCSN



Please use Cat. No. when placing your order, see p. 25 All weights are given in Kilograms (kg)





Stainless steel 316 L 316L

For detailed information related to finishes, refer to **p. 132-133**

For cantilever arms : see p. 72-76

floor mounting

UFC - RCSN



UFC – clamp unit / RCSN - fast fix support rails

UFC - clamp unit

Use in conjunction with RCSN mounting rail or CSN cantilever arms (see p. 97) to clamp to underfloor pedestal supports, forming an underfloor support for steel wire cable tray runs Supplied singly with U bolt and fasteners

RCSN - fast fix support rails Use to support 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths. Use in conjunction with UFC or mount directly to the floor. Can also be wall mounted (see p. 79) or to form a trapeze hanger using threaded rod (see p. 88)

Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

Installation



RCSN is secured to UFC using U bolt and fasteners (supplied) Note: if 600 mm floor spacing being used, use 550 mm RCSN or below



Mount RCSN directly onto floor using fasteners (not supplied)

BTRCC 6 X 20

Assembly Securing RCSN to UFC clamp unit







and secure down using $2 \times BTRCC 6 \times 20$ Fixing without assen nuts and bolts

Slot base wires of the tray into RCSN and bend tabs with screwdriver to secure, as shown in the FAS diagram above

Dimensions and weights

UFC نِ⊈ن 30 → 105 mm نِ⊈ن 400 mm





Please use Cat. No. when placing your order, see p. 35 All weights are given in Kilograms (kg)

RCSN ↓↓ 30 → 105 mm ↓ 100 → 600 mm



		Weight (kg)				
	mm⊤	GS	EZ+	GC	304L	316L
RCSN150	150	0.16	-	0.17	-	0.16
RCSN200	200	0.23	-	0.23	-	0.22
RCSN300	300	0.33	-	0.36	-	0.33
RCSN400	400	0.38	-	0.49	-	0.45
RCSN500	500	0.54	-	0.61	-	0.59
RCSN550	550	0.63	-	0.65	-	-
RCSN600	600	0.67	-	0.70	-	0.69
RCSN700	700	0.78	-	-	-	-
RCSN1000	1 000	1.18	-	1.23	-	1.21
RCSN2000	2 0 0 0	2.20	-	2.42	2.30	2.30
RCSN3000	3 000	3∙54	3.45	3.78	3.65	3.65

Please use Cat. No. when placing your order, see p. 34

All weights are given in Kilograms (kg)







CLMFAS – beam clamps / RCSN – fast fix support rails

CLMFAS - beam clamps Use as a clamp to attach RCSN mounting rail to beams Supplied singly without fasteners

RCSN - fast fix support rails

Use to support 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths in a beam mounting situation. Can also be wall mounted (see p. 79), floor mounted (see p. 93) or used to form a trapeze hanger using threaded rod (see p. 88) Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

Installation





CLMFAS is secured to beams at either side with fasteners (not supplied) RCSN fast fit support rails simply pass through the opening in the CLMFAS clamp and sit on the underside of the beam 42 mm to 100 mm wide beams can be accommodated

Assembly

Securing CLMFAS to beams and to F M8 X 20 (x1)

CLMFAS is beams at either side with 1 X M8 x 20 fastener per clamp (not supplied). RCSN fast fit support rails simply pass through the opening in the CLMFAS clamp and sit on the underside of the beam

Securing RCSN to steel wire cable tray





Slot base wires of the tray into RCSN and bend tabs with screwdriver to secure, as shown in the FAS diagram above

Dimensions and weights

CLMFAS ألك ن → 105 mm ألك 50 → 600 mm



	daN.m	GS	ZM	316L	
CLMFAS	18	0.20	0.20	0.20	
Disease was Oat. No without placing ways and an area of t					

Please use Cat. No. when placing your order, see p. 36 All weights are given in Kilograms (kg)

RCSN ↓↓ 30 → 105 mm ↓ 100 → 600 mm



NOTE : When used with CLMFAS 50 mm wide tray can be supported either side of a beam

		Weight (kg)				
	mm	GS	EZ+	GC	304L	316L
RCSN150	150	0.16	-	0.17	-	0.16
RCSN200	200	0.23	-	0.23	-	0.22
RCSN300	300	0.33	-	0.36	-	0.33
RCSN400	400	0.38	-	0.49	-	0.45
RCSN500	500	0.54	-	0.61	-	0.59
RCSN550	550	0.63	-	0.65	-	-
RCSN600	600	0.67	-	0.70	-	0.69
RCSN700	700	0.78	-	-	-	-
RCSN1000	1 000	1.18	-	1.23	-	1.21
RCSN2000	2 000	2.20	_	2.42	2.30	2.30
RCSN3000	3 000	3.54	3.45	3.78	3.65	3.65

Please use Cat. No. when placing your order, see p. 34 All weights are given in Kilograms (kg)



beam mounting

CLMU - EDF



CLMU – beam clamps / EDF – pendants / mounting rails

CLMU - beam clamps Use as a clamp to attach EDF mounting rail to beams Supplied singly without fasteners

EDF - pendants / mounting rails

Use to support 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths in a beam mounting situation. Can also be wall mounted (see p. 74-75), or trapeze and pendant mounted from the ceiling (see p. 89-90) Supplied singly without fasteners

Installation



42 → 100 mm 0000000000000 000 000

CLMU is secured to beams at either side with fasteners (not supplied)

EDF mounting rails pass through the opening in the CLMU clamp and sit on the underside of the beam

42 mm to 100 mm wide beams can be accommodated

Assembly

Securing CLMU to beams and to EDF



CLMU is secured to beams at either side with 1 X M8 x 20 fastener per clamp (not supplied) EDF mounting rails pass through the opening in the CLMFAS clamp, sit on the underside of the beam and are secured with the fastener

Securing EDF mounting rail to steel wire cable tray



Use 1 x BTRCC 6 x 20 and 1 x CE25 to secure 50 mm to 200 mm tray EDF For 300 mm to 600 mm tray use 2 x BTRCC 6 x 20 and 2 x CE25

Dimensions and weights

CLMU ↓↓ 30 → 105 mm ↓ 50 → 600 mm



	(•)	Weight (kg)		
	daN.m	GS	ZM	
CLMU	15	0.20	0.20	

Please use Cat. No. when placing your order, see p. 36 All weights are given in Kilograms (kg)

EDF ↓↓ 30 → 105 mm ↔ 100 → 600 mm



	1	F	Weight (kg)			
	,⊑ mm	daN	GS	GC	304L	316L
EDF600	600	50	0.77	0.83	-	-
EDF1000	1 000	65	1.19	1.24	-	-
EDF2000	2000	70	2.40	2.56	2.48	2.48
EDF3000	3000	100	3.66	3.89	-	_

Please use Cat. No. when placing your order, see p. 28

All weights are given in Kilograms (kg)

Key: GS	Pre-galvanised	304L Stainless steel 304 L
ZM	Zinc magnesium	316L Stainless steel 316 L
GC	Hot dip galvanised after manufacture	For detailed information related to finishes, refer to p. 132-133

All dimensions (mm) are nominal





EF – adjustable beam clamps

EF adjustable beam clamps can be used to support 100 mm to 300 mm wide steel wire cable tray in 30 mm to 54 mm depths along the length of a beam. Can also be used to trapeze mount cable tray using threaded rod. Supplied singly without fasteners

Installation



Dimensions and weights

EF15/600

نِ⊈َن 30 → 54 mm نِظْن 100 → 300 mm

600



5.5

0.22

1→15 Please use Cat. No. when placing your order, see p. 36 All weights are given in Kilograms (kg)



EF is secured to beams at either side with fasteners (not supplied) Steel wire cable tray can be mounted directly to the channel piece, or suspended below using threaded rod

Assembly

Securing EF adjustable beam clamp to steel wire cable tray



Use 1 x BTRCC 6 x 20 and 1 x CE25 to secure EF to tray

All dimensions (mm) are nominal

Key: EZ

Electrogalvanised after

manufacture

other mounting – universal mounting plates CM50 - CM50XL - CAT40



CM50 – universal mounting plates (small) / CM50XL – universal mounting plates (large) / CAT40 – channel fixing plates

CM50 - universal mounting plates (small) Mount to the side of steel wire cable tray as an ancillary mounting plate. Use with 50 mm to 600 mm wide steel wire cable tray in 54 mm, 105 mm and 150 mm depths. CM50 can also be used to mount cable tray to the wall (see p 71)

Incorporate slot and tab design for easy fixing Supplied singly. No fasteners required

CM50XL - universal fixing plates (large)

Mount to the side of steel wire cable tray as an ancillary mounting plate. Use with 50 mm to 600 mm wide steel wire cable tray in 54 mm to 150 mm depths. CM50XL can also be used to mount cable tray to the wall (see p 71), floor (see p. 92) or ceiling (see p. 83) Incorporate slot and tab design for easy fixing Supplied singly. No fasteners required

CAT40 - channel fixing plates Mount to the side of steel wire cable tray as an ancillary mounting plate. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm, 54 mm and 105 mm depths. CAT40 can also be used to mount cable tray to the wall (see p. 70) Supplied singly. No fasteners required

Installation and assembly



Dimensions and weights

CM50 년부 54 / 105 / 150 mm 년부 50 → 600 mm



	Weight (kg)					
	GS	GC	304L	316L		
CM50	0.08	0.08	0.07	0.07		

Please use Cat. No. when placing your order, see p. 37 All weights are given in Kilograms (kg)

CM50XL نِكْنَ 54 → 150 mm نَضَن 50 → 600 mm



	Weight (kg)				
	GS	EZ+	GC	304L	316L
M50XL	0.10	0.11	0.11	0.08	0.08

Please use Cat. No. when placing your order, see p. 37 All weights are given in Kilograms (kg)

CAT40 · (ﷺ) 30 / 54 / 105 mm · ↔ 50 → 600 mm



All dimensions (mm) are nominal

	Weight (kg)			
	GS	DC	<mark>316L</mark>	
CAT40	0.04	0.04	0.04	

Please use Cat. No. when placing your order, see p. 37 All weights are given in Kilograms (kg)

Zinc rich coating

Stainless steel 304 L

Stainless steel 316 L

DC

304L

316L

For floor mounting : see p. 92

other mounting – universal mounting plates CM50XXL

CM50XXL – universal mounting plates (extra large)

CM50XXL - universal mounting plates (extra large) Mount to the side of steel wire cable tray to accept conduit or switch / junction boxes. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths. Incorporate slot and tab design for easy fixing Supplied singly. No fasteners required

Installation and assembly



CM50XXL is clipped onto the side rail of the tray to accommodate ancillary items No fasteners are required to attach plates onto tray

Dimensions and weights

·i£ i 30 → 105 mm · ⊖i 50 → 600 mm

CM50XXL



	Weight (kg)		
	GS	DC	
CM50XXL	0.24	0.24	

Please use Cat. No. when placing your order, see p. 37 All weights are given in Kilograms (kg)





Clegrand

other mounting – take-off plates SBDN



SBDN – universal conduit take-off plates

Mount to the base or side of steel wire cable tray to accept 20 mm or 25 mm diameter conduits. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths Supplied singly without fasteners

Installation and assembly



Position SBDN using the groove and bend tabs to secure

Dimensions and weights

·نِ⊈َنِ 30 → 150 mm · نِےُن 50 → 600 mm



	Weight (kg)		
	GS	ZM	
SBDN	0.5	0.5	

Please use Cat. No. when placing your order, see p. 38 All weights are given in Kilograms (kg)



L¹ legrand

other mounting – luminaire supports sL50 - SL100 - MFM - MFPOLYA





Clegrand

cabling accessories

DEV100 - DEV50



DEV100 – cable dropout plates

Base mounted cable dropout plate to aid cable egress Incorporates slot and tab design for easy fixing. Supplied singly

Installation and assembly





DEV100 dropout plates are fitted inside the tray bed b A he tabs Can be fitted along the length of the run or across the war to enable cable egress

Fixing without nuts and bolts

Dimensions and weights

·لِثِبَا: 30 → 150 mm أَلِبَ 100 → 600 mm

11 x 7



	Weight (kg)		
	GS	ZM	316L
DEV100	0.17	0.14	0.13

Please use Cat. No. when placing your order, see p. 39 All weights are given in Kilograms (kg)

DEV50 – dropout module

Base mounted cable dropout module to aid cable egress Supplied in packs of 2

Installation and assembly









Modules can be mounted in parallel due to offset tabs

■ Dimensions and weights ↓ 30 → 150 mm ↔ 100 → 600 mm





Please use Cat. No. when placing your order, see p. 39 All weights are given in Kilograms (kg)




FAS ROLLER – cabling roller

Enables the easy installation of cables into a steel wire cable tray run using the cable roller tools, mounting plates and clamps Supplied with roller, mounting plate and clamp

Installation and assembly





FASROLLER is fitted to the base of the tray at every corner

Dimensions and weights

ن£ن 30 → 150 mm 👾 50 → 600 mm



Please use Cat. No. when placing your order, see p. 39 All weights are given in Kilograms (kg)

Key: GS Pre-galvanised

PLAST Plastic

For detailed information related to finishes, refer to **p. 132-133**

CABLOGRIP – cable grip

Banding strip used to form and secure a cable bundle within a steel wire cable tray run Supplied singly

Installation and assembly





 $\ensuremath{\mathsf{CABLOGRIP}}$ forms an organised bundle of cables which can then be secured

Dimensions and weights

• 30 → 150 mm بنجن 100 → 600 mm بنجن



	L mm	Weight (kg) OTHER
BLOGRIP	5 000	0.93

Please use Cat. No. when placing your order, see p. 39 All weights are given in Kilograms (kg)

CA

CLIP - identification tags

Coloured identification tag attaches to the side of steel wire cable tray Supplied in packs of $50\,$

Installation and assembly



 $\ensuremath{\mathsf{CLIP}}$ identification clips attach to the side rail of the tray run No fasteners required

Dimensions and weights

ن£ب 30 → 150 mm نج 50 → 600 mm





Please use Cat. No. when placing your order, see p. 39 All weights are given in Kilograms (kg)

cabling accessories

PA

PA - radius support

Used as a corner assembly in conjunction with site fabricated fittings Supplied singly without fasteners

Installation



PA fitted to form a radius support for site fabricated bends to ensure a smooth bending. Fasteners required (not supplied)

Assembly



Use 4 x BTRCC 6 x 20 and 1 x CE25 to secure PA to tray

Dimensions and weights

i£i 30 / 54 / 105 mm 👾 50 → 600 mm



	H	Weight (kg)				
	mm	EZ				
PA1	30	0.25	0.29			
PA2	54	0.27	0.31			
PA4	105	0.29 0.33				

Please use Cat. No. when placing your order, see p. 39 All weights are given in Kilograms (kg)



Side mounted earth conductor clamp fits directly to side wires of 30 mm, 54 mm and 105 mm depth steel wire cable tray. For 80 mm and 150 mm depth use in conjunction with SBU support (see p. 109) Use for protective conductors with a cross section of 16, 35 and 50 mm². Supplied in packs of 10

Installation

earthing

BLF





İÞ

BLF attaches to side rail of tray When using BLF with pre-galvanised or hot dip galvanised trays, ensure that the aluminium face of the washer is in contact with the tray or SBU support

When using BLF with stainless steel tray, ensure that the copper face of the washer is in contact with the tray or SBU support

Assembly



Clamp in place with the earthing point outside of the tray

Dimensions and weights

ن£ ÷ 50 → 150 mm أ£ ÷ 50 → 600 mm



	L mm	Ø mm²	Weight (kg) CU
BLF6/16	19	16	0.04
BLF6/35	22	35	0.05
BLF6/50	26	50	0.06

Please use Cat. No. when placing your order, see p. 40 All weights are given in Kilograms (kg)



Electrogalvanised after manufacture

Hot dip galvanised after manufacture GC For detailed information related to finishes, refer to p. 132-133





All dimensions (mm) are nominal



SBU – earth conductor clamp support

Use to support BLF earth conductor

Installation



BLF is mounted on SBU fixed to side rail of tray

Assembly

SBU

Clamp BLF to SBU as shown above



Use 2 x BTRCC 6 x 20 and 2 x CE25 to secure SBU to tray

Dimensions and weights

11 30 → 150 mm 👾 50 → 600 mm



0.03

Please use Cat. No. when placing your order, see p. 40 All weights are given in Kilograms (kg)

0.04

0.03

GRIFEQUIP – earth conductor clamp (aluminium) GRIFEQUIP 2 – vertical earth clamp (aluminium)

Side mounted earth conductor clamp fits directly to steel wire cable tray. Use for protective conductors with a cross section of between 6 and 35 mm² For use with EZ and GC finishes only Supplied singly

Installation





GRIFEQUIP clamps to the side rail of tray



GRIFEQUIP2 clamps to the side rail of tray

Dimensions and weights نِ⊈نِ 30 / 54 / 105 mm نِ∯ 50 → 600 mm GRIFEQUIP



Ø – 6 X 35 mm²

GRIFEQUIP 2



 $Ø - 6 X 35 mm^2$





Please use Cat. No. when placing your order, see p. 40 All weights are given in Kilograms (kg)







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■ How to cut a cable tray











cable tray installation technical information





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FASLOCK AUTO : see p. 21

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cable tray installation technical information





cable tray installation technical information



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x1

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x1

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x1

(x2)





118

All dimensions (mm) are nominal

x2

5

(x3

> CE40 : see p. 22

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x3

Clegrand



cable tray installation technical information



Right angle bends .⇔i 100 mm **(x1**) BTRCC 6 x 20 CE 30 (x1) 🕑 (X1) CE 25 9 .⇔i 150 mm **x1** BTRCC 6 x 20 **x1** CE 30 CE 25 (x1) .⇔i 200 mm BTRCC 6 x 20 (x1) ax1) CE 30 ୬ 🖈 CE 25 .;⇔j. 300 mm **(x1**) BTRCC 6 x 20 **x**1 CE 30 😂 XI CE 25 9

120

All dimensions (mm) are nominal



■ Right angle bends (continued)



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All dimensions (mm) are nominal



■ T or cross at right angles (continued)







→ Fixing kits : see p. 23

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All dimensions (mm) are nominal

cable tray installation technical information



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All dimensions (mm) are nominal

cable tray installation technical information

■ Changing level





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Selecting the right finish

IN THIS SECTION... Suitability of finishes

1. Recommended finishes for different environments

Preventing corrosion

- 1. Chemical (atmospheric) corrosion
- 2. Electrochemical (galvanic) corrosion
- 3. The merits of Zinc
- 4. Common corrosion situations

Suitability of finishes

Recommended finishes for different environments

Typical atmospheric environments in relation to suitability of finishes

○ Recommended◆ Possible	EZ	EZ+	GC	304L	316L
Internal installation,	0				
normal environment	0				
External installation,		•	0		
urban environment		•	0		
Temporary external installation		0			
during construction phase		0			
Chemical industries,					
nitrate explosives,					0
photography, decoration					
Marine, harsh, sulphurous					
(weak concentration)					0
environments					
Acid or alkaline environments				•	0
Food production environment				0	0
Halogen environment					0

Preventing corrosion

In planning any cabling or support installation the choice of an appropriate corrosion resistant finish is always a key issue at the specification stage. The correct choice of finish has long term implications and is crucial for ensuring the longevity (and aesthetics) of the complete installation in order to meet with the client's expectations. It is vital that the finish specified for the equipment is capable of providing lifetime protection from corrosion within the intended environment - ideally with some margin of safety. The following pages give

information on how corrosion occurs. Contact our technical team on +44 (0) 370 608 9020 for further information. Corrosion occurs on all metals to some extent. With some, such as stainless steel, its effects





are usually only slight but even then the presence of certain chemicals or physical contact with other metals may cause rapid corrosion. It is therefore important to consider every aspect of the environment surrounding any intended installation in order to choose a material or finish which will minimise the risk of damage to the support system through the effects of corrosion.

Chemical (atmospheric) corrosion

Few metals will suffer corrosion damage in a dry, unpolluted atmosphere at a normal ambient temperature. Unfortunately atmospheric pollutants are likely to be present to some degree in most situations where support systems will be installed, thus mild chemical corrosion is normal in almost all situations. Any support installation which will be situated in an area where higher concentrations of chemicals exist must receive more detailed consideration in order to select a finish which provides the best combination of initial cost and expected life. More detailed information is available upon request, please contact us on +44 (0) 370 608 9020.

Electrochemical (galvanic) corrosion

When two dissimilar metals are in contact and become damp it is possible for corrosion to be induced in one of the metals. Such corrosion may progress rapidly and cause considerable damage so it is important to consider and, if necessary, take steps to eliminate this process occurring.

Electrochemical corrosion takes place because the two different metals each behave as electrodes and the moisture as the electrolyte in a simple battery; as with any battery the resulting flow of current will cause corrosion of the anode. The likely effects of this reaction can be predicted using the Galvanic Series.

P Me	tal involved	Stainless steel									
	Stainless steel	0	Nicke	ber							
	Nickel	180		ပိ	ss		ĺ				
	Copper	320	140	0	Ba						
	Brass	400	220	80	0	Ë	-	E			
	Tin	550	370	230	150	0	Stee	niniu	E		
	Steel	750	570	430	350	200	0	Alui	miur		
	Aluminium	840	660	520	440	290	90	0	Chro		
	Chromium	950	770	630	550	400	200	110	0	Zine	
	Zinc	1150	970	830	750	600	400	310	200	0	

Differences in potential are expressed in millivolts. Beneath the red line, the metal involved is attacked.

13 The merits of Zinc

The Galvanic Series does show why zinc is such a useful corrosion resistant coating for mild steel.

Firstly, it forms an impervious zinc barrier around the steel, coating it with a metal whose own rate of chemical corrosion is both low and predictable in most situations.

Secondly, if the coating is damaged at any point (e.g. at a cut edge) the zinc surrounding the damaged area becomes the anode of the electrolytic cell and is sacrificially corroded away very slowly in preference to the underlying steel. This ensures the strength of the steel structure remains unaffected.

Because zinc appears near the top of the Galvanic Series it will act as a sacrificial anode in relation to most other metals; thus its relatively low cost and the ease with which it can be applied as a galvanised coating on steel means that it continues to be the most commonly specified protective finish for support systems.

Life expectancy of zinc coatings

The resistance of galvanising to atmospheric corrosion depends on a protective film which forms on the surface of the zinc. When the steel is withdrawn from the galvanising bath the zinc has a clean, bright, shiny surface. Over time the appearance will change to a dull grey patina as the surface reacts with oxygen, water and carbon dioxide in the atmosphere. A complex but tough, stable and protective layer is formed which adheres to the zinc. Contaminants in the atmosphere affect the nature of this protective film.

The most significant contaminant which will accelerate the corrosion rate of zinc is sulphur dioxide (S02) and it is the presence of S02 which largely controls the atmospheric corrosion of zinc.

The Zinc Millennium Map

The Galvanizers Association has undertaken significant research based upon the positioning of reference canisters placed throughout the UK and the Republic of Ireland to establish background corrosion rates for 10 km² grids which has resulted in the formation of The Zinc Millennium Map.

With the correct use of the map specific locations can be analysed for average zinc corrosion rates per year.

Further information is available at www.galvanizing.org.uk.

Common corrosion situations

The most common occurrences of contact between dissimilar metals within support systems are :

a. Where stainless steel components are being fixed to a carbon steel structure

b. Where galvanised or zinc plated components are being fixed onto a stainless steel support system

Description of typical atmospheric enviroments related to the estimation of corrosivity categories

Corrosivity category C. Corrosion rate for	Typical enviroments (examples)				
zinc lbased upon one year exposuresJ, rcorr (μm.a-1) and corrosion level	Indoor	Outdoor			
C1 rcorr ² 0.1 Very low	Heated spaces with low relative humidity and insignificant pollution, e.g. offices, schools, museums	Dry or cold zone, atmospheric environment with very low pollution and time of wetness, e.g. certain deserts, central Arctic / Antarctica			
C2 0.1 ← rcorr ² 0.7 Low	Unheated spaces with varying temperature and relative humidity. Low frequency of condensation and low pollution, e.g. storage, sport halls	Temperate zone, atmospheric environment with low pollution (SO2 \leftarrow 5 µg/m3), e.g.: rural areas, small towns. Dry or cold zone, atmospheric environment with short time of wetness, e.g. deserts, sub-arctic areas			
C3 0.7 ← rcorr ² 2 Medium	Spaces with moderate frequency of condensation and moderate pollution from production process, e.g. foodprocessing plants, laundries, breweries, dairies	Temperate zone, atmospheric environment with medium pollution (SO2: 5 µg/m3 to 30 µg/m3) or some effect of chlorides, e.g. urban areas, coastal areas with low deposition of chlorides, subtropical and tropical zones with atmosphere with low pollution			
C4 2 ← rcorr ² 4 High	Spaces with high frequency of condensation and high pollution from production process, e.g. industrial processing plants, swimming pools	Temperate zone, atmospheric environment with high pollution (SO2: 30 µg/m3 to 90 µg/m3) or substantial effect of chlorides, e.g. polluted urban areas, industrial areas, coastal areas without spray of salt water, exposure to strong effect of de-icing salts, subtropical and tropical zones with atmosphere with medium pollution			
C5 4 ← rcorr ² 8 Very high	Spaces with very high frequency of condensation and/ or with high pollution from production process, e.g. mines, caverns for industrial purposes, unventilated sheds in subtropical and tropical zones	Temperate and subtropical zones, atmospheric environment with very high pollution (SO2: 90 µg/m3 to 250 µg/m3] and/or important effect of chlorides, e.g. industrial areas, coastal areas, sheltered positions on coastline			
CX 8 ← rcorr ² 25 Extreme	Spaces with almost permanent condensation or extensive periods of exposure to extreme humidity effects and/or with high pollution from production process, e.g. unventilated sheds in humid tropical zones with penetration of outdoor pollution including airborne chlorides and corrosion-stimulating particulate matter	Subtropical and tropical zones (very high time of wetness), atmospheric environment with very high pollution (SO2 higher than 250 µg/m3), including accompanying and production pollution and/or strong effect of chlorides, e.g. extreme industrial areas, coastal and offshore areas with occasional contact with salt spray			

Finishes

Coated and stainless steels

Coated steels

GS Pre-galvanised

BS EN 10346 (accessories only)

Before manufacture, a coating of zinc is deposited by continuous immersion on to the steel.

EZ Electrogalvanised after manufacture¹

BS EN ISO 2081 : 2008 standard

This coating process is often referred to as bright zinc plating (BZP). Electroplating with zinc may be used when a smooth bright decorative finish is required. Parts can be coloured or colourless depending on the type of passivation process used. It is generally used for internal applications where a low degree of corrosion resistance is acceptable. Electroplating involves connecting the metal substrate to a negative terminal of a direct current source and another piece of metal to a positive pole, and immersing both metals in a solution containing ions of the metal to be deposited, in this case zinc.

Ongoing protection



When steel wire cable tray is cut, the level of protection is not affected. The jaws of the bolt cropper drag a layer of zinc across the cut end which forms a protective layer.

z Additional coating after electrogalvanisation (black)

An additional coating applied over standard electrozinc plated steel wire cable trays, offering a durable surface treatment for temporary external installations during the construction phase. Cablofil EZ+ brings with it a Class 6 alternative to a hot dip galvanised finish (GC) according to IEC 61537. Salt spray tests carried out demonstrate that EZ+ exceeds the performance of a standard hot dip galvanised finish (no red rust after more than 550 hours exposure to salt spray test, according to ISO 9227). The same 'Class 6' classification is achieved after products are subjected to a simulated 2 year ageing process under UV conditions.

ZN+ Zinc nickel plus additional coating (black)

Accessories are made from raw steel and then pickled and immersed in an electrolyte containing mainly zinc and nickel. An additional coating is then applied which is black in colour. ZN+ products are suitable for use with EZ+ (black).

GC Hot dip galvanised after manufacture

BS EN ISO 1461 standard

IN THIS SECTION....

1. Coated steels 2. Stainless steels

Coated and stainless steels

Hot dip galvanising after manufacture is an excellent, economical protective finish used on support systems in many industrial and commercial applications.

Background

The galvanised coating is applied as a final manufacturing process by immersing a steel component (after various pre-treatments) in a large bath of molten zinc; the zinc forms an alloy with the steel substrate and protects the steel from corrosion in two ways. Firstly, the zinc coating surrounds the base steel with a total, tough physical barrier preventing corrosion of the steel by the surrounding atmosphere. Secondly, if steel does become exposed, e.g. at a cut edge, the zinc coating acts as a sacrificial anode and will be gradually corroded in preference to the underlying steel. Corrosion products from the zinc will also be deposited onto the steel, effectively re-sealing the surface and maintaining the integrity of the barrier.

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 very principle on which galvanic protection is based.

DC Zinc rich coating

A coating based on zinc and aluminium. As it does not contain any chromium VI (hexavalent), it complies with the RoHS Directive. Offering protection equivalent to GC, it is used for small accessories and fixings which are difficult to hot dip galvanise.

ZM Zinc magnesium

Alloy compound of 94% zinc, 3% aluminium and 3% magnesium, coated steel with high elastic yield. Compatible with hot dip galvanised products and has Class 6 properties according to IEC 61537. Products self-regenerate when cut. Zinc magnesium products are compatible with hot dip galvanised / EZ+.

Powder coated

Resin-based paint is applied to the steel wire cable tray using an electrostatic powder and then cured in an oven. The entire range of RAL colours can be obtained. Mainly used for aesthetic reasons and to help identify cable routes, it offers very good corrosion resistance.

1: BEAMA 'BEST PRACTICE GUIDE TO CABLE LADDER AND CABLE TRAY INSTALLATIONS'

Ilegrand



Figures for salt spray tests, baseline 100 hours : EZ

Istainless steels

For all practical purposes most stainless steel services supports can be regarded as maintenance free and suffering no corrosion. Inevitably there is a relatively high price to pay for these attractive properties but, in aggressive environments or where the cost or inconvenience of gaining subsequent maintenance access is prohibitive, this initial cost premium may well be justified.

Background

Stainless steel contains a high proportion of chromium (usually at least 17%) and the steel's remarkable immunity to corrosive attack is conferred by the chromium-rich oxide film which occurs naturally on its surface. This invisible film is not only inert and tightly bonded to the surface, it also re-forms quickly if the surface is damaged in any way.

The fire resistance of stainless steel is particularly noteworthy; tests have demonstrated that stainless steel cable supports can be expected to maintain their integrity for considerable periods even when exposed to direct flame temperatures exceeding 1,000°C. This may be an important consideration where the electrical circuits being supported provide for emergency power or control systems.

Stainless steel is also used where hygiene is a major consideration. Its advantages in such applications are again its excellent resistance to the various chemicals and washes which are frequently used for cleaning purposes and the smoothness of surface (depending on the finish specified) which minimises the soiling or contamination that can take place.

304L Stainless steel 304 L

BS EN 10088-2 and BS EN 10088-3 Offers good corrosion resistance against soft water, normal environments and food products (except mustard and white wine).

316L Stainless steel 316 L

BS EN 10088-2 and BS EN 10088-3

Since it contains molybdenum, stainless steel 316L is able to resist intergranular corrosion. This makes it particularly suitable for the chemical and food industries, the nitrate explosives industry and environments containing halogen (fluorine and chlorine).

Pickling and passivation

A stainless steel surface will have excellent corrosion resistance due to the chromium oxide layer on the surface of the product. With some stainless steels however, the surface areas can become subject to corrosion due to the depletion of chromium during welding, or the introduction of iron during a machining process (not applicable to most cable management products). Where a uniform appearance is important after carrying out welding processes, it is often specified that all surfaces should be pickled and passivated to remove the smoke stain from the welding process Also where extreme corrosion resistance is called for, this process may help to remove crevice corrosion from around the welding area.

Pickling

The pickling process involves the article being immersed in a blend of acids which dissolve iron and iron oxides which adhere to, or are embedded in, the surface of the stainless steel. These acids cause a removal of the surface layer of between 1 and 3 microns. The article is finally rinsed with water to complete this stage of the process.

Passivation

Passivation of the stainless steel will occur naturally after pickling when the oxygen in the air will react with the surface of the steel to form a passive chromium oxide layer. However it is usual for this passivation process to be speeded up by immersing the article in a nitric acid or other passivating agent.





Untreated

Pickled and passivated





Untreated

Pickled and passivated

Pickling and passivation gives Cablofil stainless steel wire cable tray a very light grey colour and a distinctly matt finish. All Cablofil stainless steel products are pickled and passivated.

Installation of services

IN THIS SECTION...

Steel wire cable tray systems 1. Design factors to consider

2. Loadings

Steel wire cable tray systems

Cable tray systems are intended for the support of a combination of cables, electrical equipment and/or communication system installations. Where necessary cable tray systems may be used for the segregation of cables.

Note : these systems are designed for use as supports for cables and not as enclosures giving full mechanical protection. These systems are covered by IEC 61537.

Design factors to consider

Consideration should be given to the following factors when undertaking the design of a support system although some of these (e.g. snow/wind loads) may not be relevant to every installation.

- (i) Distributed loads (eg. cables, pipes)
- (ii) Point loads
- (iii) Snow, wind and external forces
- (iv) Safety factor
- (v) Deflection
- (vi) Spacing of supports
- (vii) Location of couplers
- (viii) Electrical continuity
- (ix) Earth protection
- (x) Electromagnetic compatibility (EMC)

The following sections provide a wealth of useful information on each of these design aspects.

(i) Distributed loads

Before commencing the design process for a new installation it is usual to consider whether future changes in the pattern of demand for building services will impose increased loading requirements on the support system. If so, it is good design practice to allow both the physical space and sufficient load carrying capacity for the future addition of 25% more cables or other loading medium.

Estimation of cable loads

If full details of the cabling layout are available then the likely cable load can be calculated using either manufacturer's published information or the tables of cable weights and diameters which are given opposite. However, it is often necessary to select a tray design in the absence of accurate information on the likely cable load. To assist this selection process a useful approach can be to choose a likely size of tray and then to estimate the maximum cable weight which is capable of being contained within it. This estimate may be arrived at using the following guide :



Note : this formula only provides an estimate of the maximum load which can be physically contained within a tray. The ability of that tray to support such a load depends upon the spacing of its supports.

Cable weights and diameters

Tables 1 and 2 below give typical weights and diameters (D) for PVC sheathed, steel wire armoured cables with stranded copper conductors.

Tables 3 and 4 give typical weights and diameters for PVC sheathed, unarmoured stranded copper power cables. Cables with XLPE (cross linked polyethylene) insulation are usually slightly lighter so the information given may also be used for these cables too.

Values show approx. weight and diameter of typical cables. D = Overall cable diameter.

Table 1 : PVC armoured power/control cables to BS 6346

Nom. area	2 core		3 с	ore	4 core	
of conductor (mm²)	kg/m	D in mm	kg/m	D in mm	kg/m	D in mm
1.5	0.3	12.3	0.3	12.8	0.4	13.5
2.5	0.4	13.6	0.4	14.1	0.5	15.0
4.0	0.5	15.1	0.5	15.8	0.7	17.8
6.0	0.6	16.5	0.7	18.0	0.9	19.2
10.0	0.9	20.1	1.0	21.2	1.2	22.8
16.0	1.0	21.9	1.2	23.1	1.7	26.3

Table 2 : PVC insulated and sheathed circular surface wiring

Nom. area	2 core		3 с	ore	4 core	
(mm ²)	kg/m	D in mm	kg/m	D in mm	kg/m	D in mm
1.5	0.1	7.7	0·1	8.2	0.1	9.1
2.5	0·1	9.2	0.2	9.7	0.2	10.6
4.0	0.2	10.2	0.3	11.0	0.3	12.6
6.0	0.2	12.0	0.3	12.8	0.4	14.2
10.0	0.4	14.6	0.5	15.6	0.7	17.4
16.0	0.6	16.9	0.7	18.0	0.9	20.0

Table 3 : PVC unarmoured stranded copper power cables to BS 6346

Nom. area	2 c	ore	3 с	ore	4 core	
(mm ²)	kg/m	D in mm	kg/m	D in mm	kg/m	D in mm
25	0.7	18.4	1.0	20.4	1.3	22.7
35	0.9	20.0	1.3	22.4	1.7	25.0
50	1.2	22.2	1.7	25.4	2.3	28.6
70	1.7	24.6	2.4	28.4	3.1	32.2
95	2.3	28.2	3.3	33.1	4.3	37.2
120	2.8	30.9	4.0	36.0	5.3	40.6
150	3.5	34.1	4.9	39.7	6.5	45.0
185	4.2	37.8	6.1	44.1	8.0	49.8
240	5.5	43.2	8.0	49.6	10.6	56.2
300	7.0	47.2	9.7	55.0	13.2	62.5
400	8.5	53.2	12.6	61.4	16.7	69.6

Table 4 : PVC armoured stranded copper	power	cables
to BS 6346		

Nom. area	2 c	ore	3 c	ore	4 core	
(mm ²)	kg/m	D in mm	kg/m	D in mm	kg/m	D in mm
25	1.3	23.0	1.7	25.1	2.1	27.5
35	1.6	24.8	2.1	27.3	2.6	30.0
50	2.0	27.2	2.6	30.5	3.5	34.8
70	2.5	29.5	3.6	34.8	4.5	38.4
95	3.5	34.4	4.6	39.1	5.9	43.3
120	4.1	37.1	5.5	41.9	7.5	48.1
150	4.9	40.2	7.0	47.2	8.8	52.3
185	6.3	45.1	8.4	51.4	10.7	57.5
240	7.8	50.5	10.7	57.3	13.5	63.9
300	9.3	55.4	12.7	62.6	16.4	69.9
400	11.3	60.8	15.7	68.8	21.3	78.8

(ii) Point loads

Point loads may consist of permanent equipment, such as lighting luminaires, junction boxes or other switchgear, or temporary loads such as commissioning equipment or installation personnel, however, consider 'safety during the installation phase'. Analysis of uniformly distributed loads (UDL), such as cables or pipes is relatively simple but analysing the effect of a point load is quite complex; fortunately a simple alternative approach is available.

Firstly, one makes the reasonable assumption that the point load will be situated in the worst position at mid-span. The force this point load imposes can then be taken as equivalent to that imposed by a load of twice its value uniformly distributed along the span. Thus the point load can be converted to the equivalent uniformly distributed load which is then added to other UDL's to produce one total uniform load.

Example:

Point load = 30 kg Support spacing = 3 m UDL = 100 kg/m UDL equivalent to 30 kg point load = 2 x Point Load = 2 x 30 kg = 60 kg = 20 kg/m Total UDL = 100 kg/m + 20 kg/m = 120 kg/m The suitability of a tray to carry this total load can then be considered using the loading graph information (see p. 125). Although this treatment does assume the point load will be in the 'worst case' position, the installer should, given discretion, always position any point load as close as possible both to a support and to either side flange, minimising the stress on the installation, as per the following illustration.



(iii) Snow, wind and external forces

The loading graphs show the maximum safe working steady load for each type of support system. If the system is outdoors and must also sustain snow, ice, wind or other variable forces these must also be taken into account at the design stage.

Appropriate design data for UK weather conditions is given in the British Standard series BS EN 1991.

(iv) Safety factor

To arrive at a safe working load (SWL) for each type of equipment Legrand test their products to find the ultimate failure load. The SWL is obtained by dividing the load before failure by a factor of 1.7 minimum.

This safety factor may need to be increased by the designer depending upon the circumstances. For example, if the support system is expected to be subject to aggressive abuse a safety factor as high as three or more may be used. Such treatment is, however, the exception and care should be taken not to over-design the system by using an unnecessarily high safety factor.

(v) Deflection

The deflection of a cable tray under load is not directly related to its strength but it is obviously of aesthetic importance. For this reason it may be necessary to estimate the likely deflection whilst designing an installation, especially if it will be in a highly visible location. Experience has shown that in order to maintain a degree of deflection which is subjectively acceptable to the eye, the load on the cable tray will often be restricted to well below its safe maximum.

In the event of critical overload, a steel wire cable tray (wire mesh) structure becomes like a hammock.





(vi) Spacing of supports

Services support installations are usually considered as multi-span arrangements but it is important to recognise that the loading capability of the system is not uniform from end-toend. The strength of the two end spans in any run is much lower than that of intermediate spans, even when the ends are rigidly fixed. In many situations the end spans will be more lightly loaded anyway; if however they are not and the installation will be fully loaded from end-to-end then it is recommended that the support spacing of both end spans should be reduced to no more than three quarters that of intermediate spans. However it is not a mandatory requirement, but is both useful and advisable.



Sometimes the necessary support spacing may be dictated by the nature of the building fabric. If however the designer has discretion over the spacing of supports the loading graphs can be used to maximise this distance. This will reduce the number of support components and fixings that will be required, thus reducing the overall cost of the installed system.

Supports for cable tray (P2000)

Some of the Cablofil steel wire cable tray loading graphs are denoted as P2000. This means setting supports at 2 metre apart instead of 1.5 metres, thus enabling the installer to reduce, a) the number of supports used and b) the overall installation time. Example:

Span 1500 : 100 m / 1.5 = 67 supports Span 2000 : 100 m / 2 = 50 supports

Support of fittings

Cable tray fittings must always be provided with local support. The illustrations opposite give recommended support positions.

(vii) Location of couplers

In practice it is often impossible to predetermine where the couplers will be located within a straight run of cable tray. However it is well worth making some effort to roughly plan their position during the early stages of installation.

The worst positions for the couplers is directly underneath a support.

The best position for joints in a continuous installation is one quarter / one fifth of the span distance on either side of each point of support.





Recommended support locations – steel wire cable tray

Positioning of the supports

Changes of level and direction – put supports in place before there is any deflection of the cable tray route. It is recommended to place supports at the start and end of 90° bends. A support must be positioned in the middle of large-radius bends.











(viii) Electrical continuity

Fundamental to providing safety to people and property, electrical continuity also plays an essential role in the EMC performance of an electrical installation.

Definition

The electrical continuity of a system is its ability to conduct electric current. Each system is characterised by its resistance (R).

If $R = 0 \Omega$, the system is a perfect conductor.

If R is infinite, the system is a perfect insulator.

The lower the system's resistance, the better its electrical continuity will be.

The importance of excellent electrical continuity

Even at the same electrical potential each part of the steel wire cable tray run helps dissipate any fault currents :

• Guarantee the safety of people and property, avoiding any risk of electrocution

• Promote good electromagnetic performance within an installation by dissipating noise currents generated by interference

Tested for electrical continuity

• Steel wire cable tray lengths

Tests show that Cablofil steel wire cable tray lengths more than meet the requirements of the standard IEC 61537, which stipulates that cable tray resistance must not exceed 5 m Ω /m.

• Steel wire cable tray couplers

The standard IEC 61537 states that coupler resistance must not exceed 50 m Ω . The test involves running an electric current \longrightarrow through the system (lengths + couplers) and measuring coupler resistance.



(ix) Earth protection

Earthing an installation is vital for the safety of people and property. Furthermore it plays an active role in EMC.

Definition

The earth network is made up of all the metallic components of a building that are interconnected. These include beams, conduits, cable management, the metal frames or devices. All such elements must be interconnected to ensure the earth network is equipotential.

Benefits of equipotential earthing network

The equipotential earth network works like a system of conduits evacuating any fault currents and the parasite currents to earth. This provides a means of :

- protecting people and property
- obtaining a satisfactory EMC performance level

(xi) Electromagnetic compatibility (EMC)

Understanding EMC involves the analysis of electromagnetic pollution between a source of disturbance and its victim.

Definition

Electromagnetic interference is emitted by a source polluting a victim. Electromagnetic interference is transmitted by a process known as coupling. An EMC problem only occurs when the three elements source, coupling and victim are evident. To obtain a good EMC we simply need to eliminate one of the three elements or reduce its effect.



The golden rules!







Loadings

First and foremost, steel wire cable tray must act as an effective, resistant and durable support for cables.

The mechanical performance of all products and accessories is tested against the very demanding requirements imposed by the international standard IEC 61537.

i) Safe working loads

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1.7 + joint 1/5 th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow).



(ii) Safe working loads for supports

Brackets are classified by their permissible load (in daN).

Hangers are classified by their permissible torque (in daN/m). All Cablofil supports are tested and comply with the IEC 61537 standard. F – is the load (in daN) applied to the support.

 \mathbf{d} – is the distance between the hanger axis and the load.

 ${\rm T}$ – is the torque (in daN/m) applied to the hanger.

Calculation rules :

Total F = F1 + F2 + F3 < permissible hanger load

Total T = F1.d1 + F3.d3 - F2.d2 < permissible hanger torque

(iii) Load tests : test configuration according to standard IEC 61537

Each Cablofil steel wire cable tray has been tested in the required configuration, with a coupling 1/5th of the way along the span. Deflection is measured at the centre of the span.



The values given in this document have been obtained from extensive testing of our cable support equipment. They are given as a guide, so that customers may use Legrand's products to the best advantage; they are nevertheless average figures which are given in good faith, but without accepting any liability in contract, tort or otherwise in the event of different performance by equipment which is actually supplied.





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