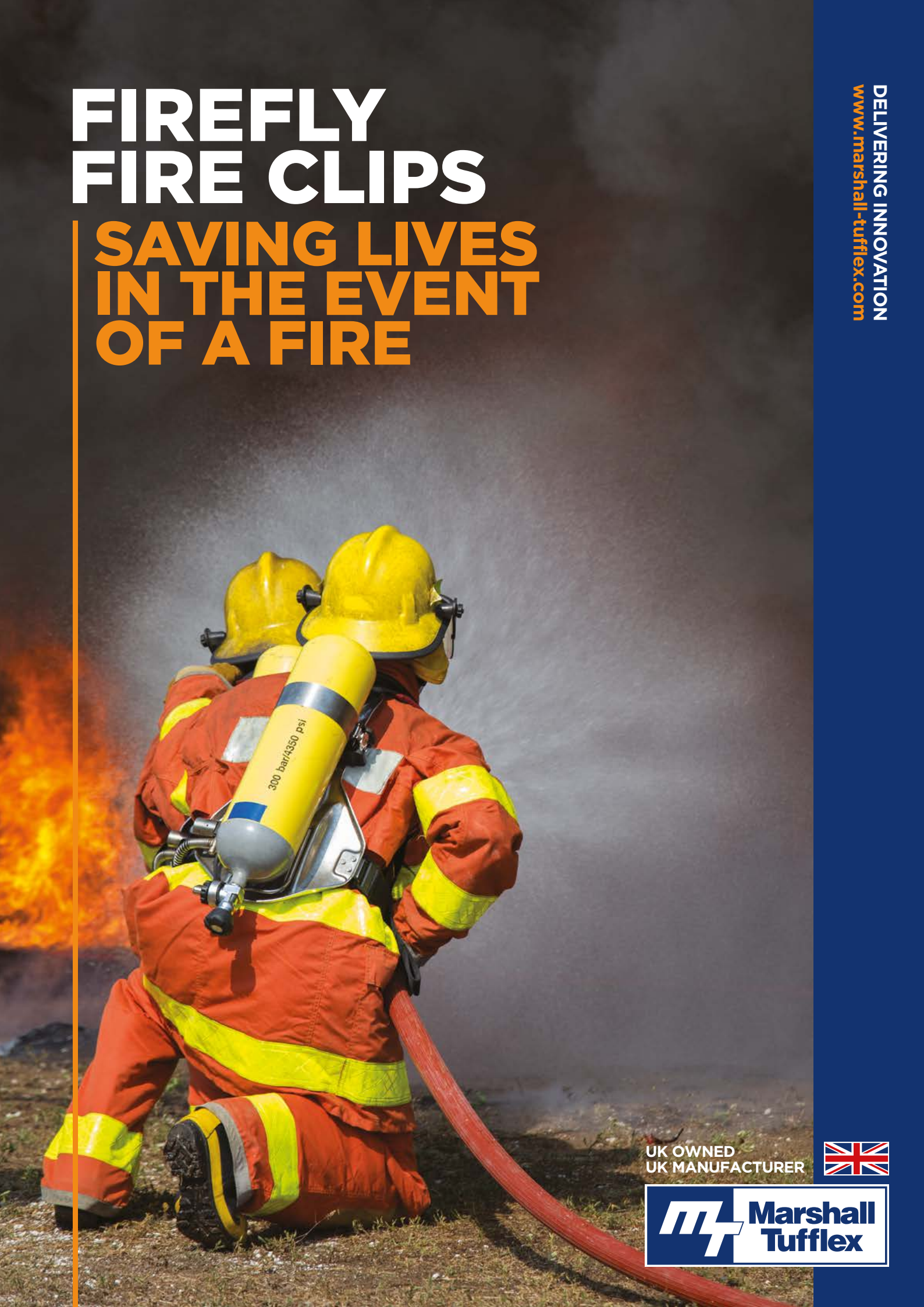


FIREFLY FIRE CLIPS

SAVING LIVES IN THE EVENT OF A FIRE

DELIVERING INNOVATION
www.marshall-tufflex.com



UK OWNED
UK MANUFACTURER



**Marshall
Tufflex**



UK OWNED
UK MANUFACTURER

CABLE MANAGEMENT SPECIALISTS

Marshall-Tufflex is the UK's leading manufacturer and supplier of cable management solutions for commercial, industrial, healthcare, education and domestic markets.

Based in Hastings, East Sussex the company was established in 1942 and is recognised throughout the industry for quality, consistency, reliability, value for money and innovation.

We are extremely proud of our heritage as a family owned company and our priority for the future is to re-invest and continue producing new and effective solutions for the building industry.

REASSURINGLY RECYCLED

We work hard to ensure our products meet the highest standards and are totally committed to the environment and maximising our usage of recycled plastic within our manufacturing process.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material.



Buying Marshall-Tufflex products

Marshall-Tufflex products are available throughout the UK via a large network of national and independent electrical wholesalers.

Please contact our Customer Service Team on +44 (0)1424 856600 for details of your local UK stockist or visit www.marshall-tufflex.com/stockists

Our products are also in over 55 different countries worldwide via our network of channel partners, who maintain a range of products for their customers locally.

First class customer service

Our Area Sales Managers, National Contract and Sustainability Managers and technical specialists work closely with consultants, contractors and clients in order to provide the best possible technical and sales support.

Our Customer Service Team are on hand to advise on stock availability, lead times, delivery schedules and order fulfilment.

Our office opening hours are 8am to 5pm Monday to Friday.





FIREFLY: SAVING LIVES IN THE EVENT OF A FIRE

To aid compliance with BS 7671:2018 IET Wiring Regulations, Marshall-Tufflex supply a range of Firefly fire clips designed to prevent cables falling and creating a hazard – providing a safer evacuation and allowing easy access for fire service crews.

Firefly clips feature rounded ends, preventing damage to cables and injury to installers. The spring-loaded design makes it straightforward to install and to add or remove cables after the initial installation.



Regulations

The UK wiring regulations state that wiring systems shall be supported such that they will not be liable to premature collapse in the event of a fire. Firefly clips help in meeting the requirements of the current version of BS 7671 Wiring Regulations to secure surface cables and to avoid the risk of entanglement in the event of a fire.

BS 7671:2018 IET Wiring Regulations

See chapter 52 Selection and Erection of Wiring Systems 521.10.202 of the IET Wiring Regulations



New products have been added to our Firefly range.

NEW

PERIMETER TRUNKING FIREFLY CLIPS

To aid compliance with BS 7671:2018 IET Wiring Regulations, we supply a range of Firefly fire clips to secure cables throughout an installation within a wide range of Marshall-Tufflex perimeter trunking systems. The clips are designed to secure and support cables to prevent premature collapse in the event of a fire.

Product information

- Fire safety clips to comply with BS 5839-1
- For use with Mono, Twin165, Sterling, Odyssey and Twin Plus trunking
- Spring loaded design for easy installation or removal of cables
- Designed for quick installation and to maximise internal trunking space
- We recommend using the masonry or cavity screws and washers for all installations
- Melt point over 1000°C
- Independently tested and certified by an accredited test house



Perimeter trunking clips



NEW

Fire clip Mono 10 centre compartment

code	pack
FCM10C	100



NEW

Fire clip Mono 20 centre compartment

code	pack
FCM20C	100



NEW

Fire clip Twin165 large compartment

code	pack
FCT165L	50



NEW

Fire clip Twin165 small compartment

code	pack
FCT165S	100



NEW

Fire clip Sterling centre compartment

code	pack
FCSPC	50



NEW

Fire clip Sterling angle & curve compartment

code	pack
FCSPAC	100



NEW

Fire clip Sterling square compartment

code	pack
FCSPS	100



NEW

Fire clip Odyssey centre compartment

code	pack
FCOC	50



NEW

Fire clip Odyssey outer compartment

code	pack
FCOO	100





NEW

Fire clip Twin Plus


code	pack
FCTP	50

Please use the table below to determine which clips are required for your perimeter trunking installation.

	Number of compartments in trunking	Outer Compartment 1 (top)	Centre Compartment	Outer Compartment 2 (bottom)
Mono 10	1	-	FCM10C	-
Mono Plus 20	1	-	FCM20C	-
Twin165	2	FCT165S	FCT165L	-
Sterling Profile 1	3	FCSPAC	FCSPC	FCSPAC
Sterling Profile 2	3	FCSPAC	FCSPC	FCSPS
Sterling Profile 3	3	FCSPS	FCSPC	FCSPS
Sterling Curve Profile 1	3	FCSPAC	FCSPC	FCSPAC
Sterling Curve Profile 2	3	FCSPAC	FCSPC	FCSPS
Odyssey	3	FCOO	FCOC	FCOO
Twin Plus	2	-	2 x FCTP	-



NEW



NEW

Masonry screws & washers

code	pack
FCMS	100

Cavity fixings & screws

code	pack
FCCS	50

We recommend using the masonry or cavity screws and washers for all installations

Please refer to BS 7671:2018 for distance required between clips.
Please refer to ON_SITE Guide for B7671:2018; table D1 for guidance.

MINI TRUNKING FIREFLY CLIPS

To aid compliance with BS 7671:2018 IET Wiring Regulations, we supply a range of Firefly fire clips to secure cables within or outside of mini trunking. The clips are designed to secure and support cables to prevent premature collapse in the event of a fire.

Product information

- Fire safety clips to comply with BS 5839-1
- For use with mini trunking
- Spring loaded design for easy installation or removal of cables
- Designed for quick installation and to maximise internal trunking space
- Internal version to fit within trunking prior to cables being installed
- External version to retrofit onto existing installations
- Melt point over 1000°C
- We recommend using the masonry or cavity screws and washers for all installations
- Kits available including all required fixings/screws ready for installation
- Independently tested and certified by an accredited test house



Mini trunking clips



Fire clip internal MMT2

code	trunking size	pack
FCMMMT2	25 x 16mm	100



Fire clip internal MMT3

code	trunking size	pack
FCMMMT3	38 x 16mm	100



Fire clip internal MMT4

code	trunking size	pack
FCMMMT4	38 x 25mm	100



Fire clip internal MMT5

code	trunking size	pack
FCMMMT5	50 x 25mm	100



Fire clip internal MMT6

code	trunking size	pack
FCMMMT6	38 x 38mm	100



Fire clip external MMT2

code	trunking size	pack
FCXMMT2	25 x 16mm	100



Fire clip external MMT4

code	trunking size	pack
FCXMMT4	38 x 25mm	100



Fire clip internal kit - masonry

code	size	kit contents*
FCXMMMT2	MMT2	200
	(25 x 16mm)	
FCXMMMT4	MMT4	100
	(38 x 25mm)	



Fire clip internal kit - cavity

code	size	kit contents*
FCXMMMT2	MMT2	100
	(25 x 16mm)	
FCXMMMT4	MMT4	50
	(38 x 25mm)	



Fire clip external kit - masonry

code	size	kit contents*
FCXMMMT2	MMT2	100
	(25 x 16mm)	
FCXMMMT4	MMT4	50
	(38 x 25mm)	



Fire clip external kit - cavity

code	size	kit contents*
FCXCMMT2	MMT2	50
	(25 x 16mm)	
FCXCMMT4	MMT4	50
	(38 x 25mm)	

*Kit contents

Please note: the quantity stated refers to the number of fire clips within the kit, each kit also contains the appropriate number of screws.

Each Masonry kit is supplied with: Masonry screws, washers and 1 x Ø4mm drill bit

Each Cavity kit is supplied with: Cavity fixings and screws

Please refer to BS 7671:2018 for distance required between clips.

Please refer to ON-SITE Guide for BS 7671:2018; table D1 for guidance.

MAXI TRUNKING FIREFLY CLIPS

To aid compliance with BS 7671:2018 IET Wiring Regulations, we supply a range of Firefly fire clips to secure cables within maxi trunking. The clips are designed to secure and support cables to prevent premature collapse in the event of a fire.



Product information

- Fire safety clips to comply with BS 5839-1
- For use within maxi trunking
- Spring loaded design for easy installation or removal of cables
- Designed for quick installation and to maximise internal trunking space
- We recommend using the masonry or cavity screws and washers for all installations
- Melt point over 1000°C
- Independently tested and certified by an accredited test house

Maxi trunking clips



**Fire clip internal
MTRS50**

code	trunking size	pack
FCMTRS50	50 x 50mm	50



NEW

**Fire clip internal
MTRS75/50**

code	trunking size	pack
FCMTRS75/50	75 x 50mm	50



NEW

**Fire clip internal
MTRS75**

code	trunking size	pack
FCMTRS75	75 x 75mm	50



NEW

**Fire clip internal
MTRS100**

code	trunking size	pack
FCMTRS100	100 x 100mm	50



NEW

**Fire clip internal
MTRS100/50**

code	trunking size	pack
FCMTRS100/50	100 x 50mm	50

Fixings



NEW

**Masonry screws &
washers**

code	pack
FCMS	100



NEW

Cavity fixings & screws

code	pack
FCCS	50

We recommend using the masonry or cavity screws and washers for all installations

Please refer to BS 7671:2018 for distance required between clips.
Please refer to ON-SITE Guide for BS 7671:2018; table D1 for guidance.

CONDUIT FIREFLY CLIPS AND STRAPS

To aid compliance with BS 7671:2018 IET Wiring Regulations, we supply a range of Firefly fire clips and straps to secure cables within conduit. The clips are designed to secure and support cables to prevent premature collapse in the event of a fire.

Product information

- Fire safety clips to comply with BS 5839-1
- Clips or straps available for use with conduit installations
- Designed for quick installation
- Straps allow for adjustment of conduit position during installation
- We recommend using the masonry or cavity screws and washers for all installations
- Melt point over 1000°C
- Independently tested and certified by an accredited test house



Conduit trunking clips



Fire clip 20mm round conduit		
code	colour	pack
FCCR20		100



Fire clip 25mm round conduit		
code	colour	pack
FCCR25		100



NEW

Fire clip 20mm conduit strap		
code	colour	pack
FCCRC20WH	white	50
FCCRC20BK	black	50



NEW

Fire clip 25mm conduit strap		
code	colour	pack
FCCRC25WH	white	50
FCCRC25BK	black	50



NEW

Fire clip 32mm conduit strap		
code	colour	pack
FCCRC32WH	white	50
FCCRC32BK	black	50

Fixings



NEW

Masonry screws & washers	
code	pack
FCMS	100



NEW

Cavity fixings & screws	
code	pack
FCCS	50

We recommend using the masonry or cavity screws and washers for all installations

Please refer to BS 7671:2018 for distance required between clips.
Please refer to ON-SITE Guide for BS 7671:2018; table D1 for guidance.

Firefly Fire Clips

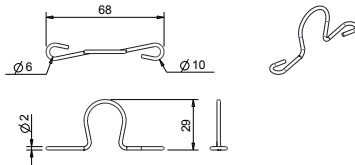
Standards

Compliant with the general principles of BS 5839-1:2013 Section 26.2d when independently tested.

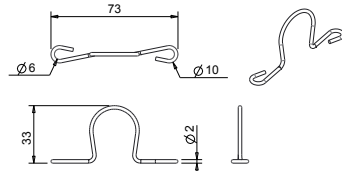
Dimensions

Conduit Firefly Clips

FCCR20

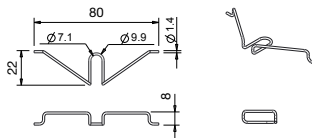


FCCR25

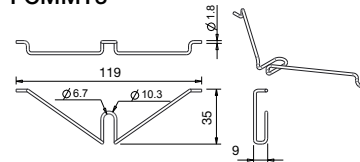


Mini Trunking Firefly Clips

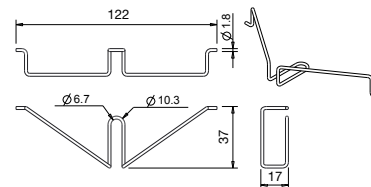
FCMMT2



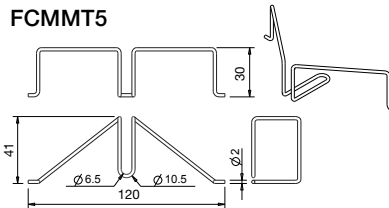
FCMMT3



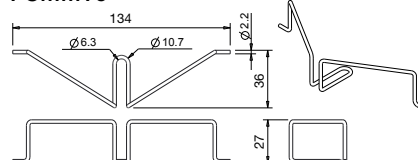
FCMMT4



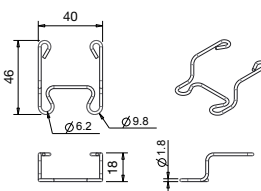
FCMMT5



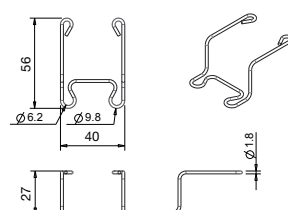
FCMMT6



FCXMMT2

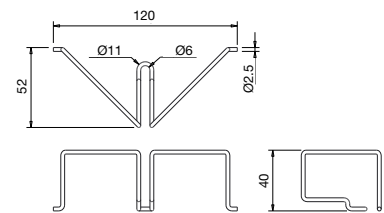


FCXMMT4

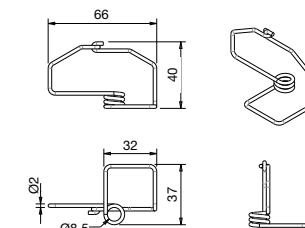


Maxi Trunking Firefly Clips

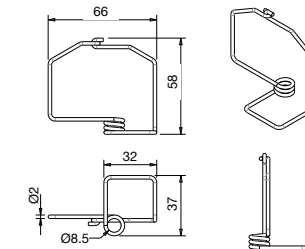
FCMTRS50



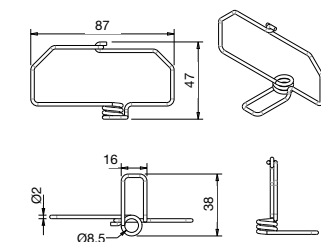
FCMTRS75-50



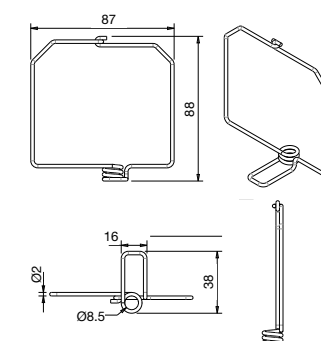
FCMTRS75



FCMTRS100-50

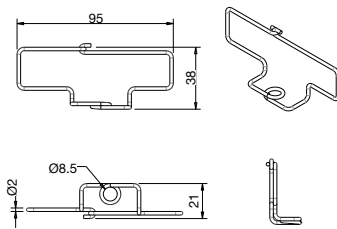


FCMTRS100



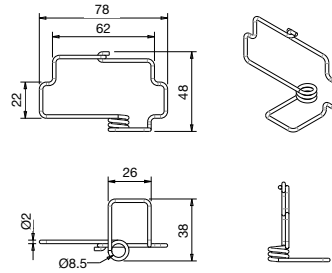
Mono 10 Firefly Clips

FCM10C (centre compartment)



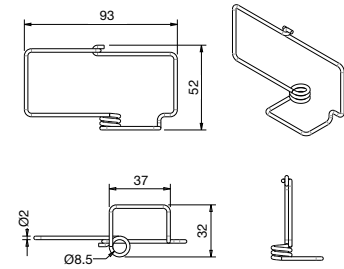
Odyssey Firefly Clips

FCOC (centre compartment)

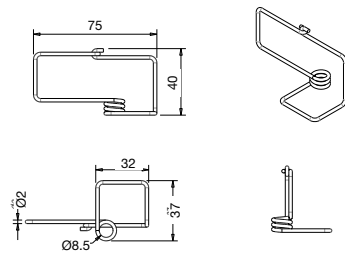


Twin Plus Firefly Clips

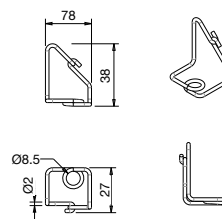
FCTP



FCM20C (centre compartment)

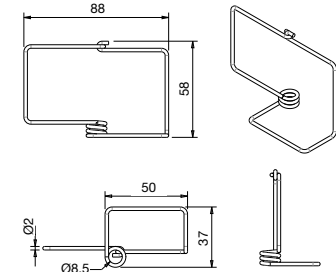


FCOO (outer compartment)



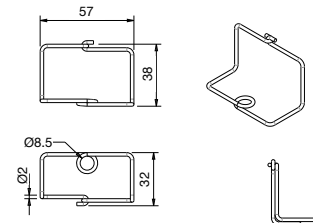
Twin165 Firefly Clips

FCT165L (large compartment)

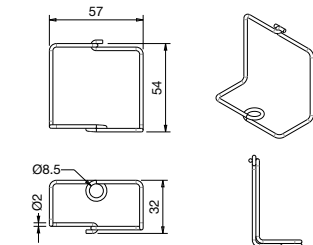


Sterling Firefly Clips

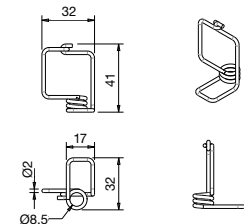
FCSPC (centre compartment)



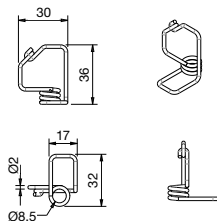
FCT165S (small compartment)



FCSPS (square compartment)



FCSPAC (angle/curve compartment)



Self Tapping Masonry Screw 4.7mm x 37mm and washers

We recommend that self-tapping masonry screws are used when installing Firefly fire clips.



DESIGNED FOR	Fixing of Firefly clips to trunking, timber track and general components into concrete and masonry.
HEAD STYLE	Countersunk
DRIVE BIT	Phillips 2
DRILL POINT	Nail point
COATING	500hr Evoshield®
SHANK MATERIAL	Carbon steel
MATERIAL GRADE	AISI C1022

Size	Fixture Thickness mm	Minimum Drill Depth mm	Minimum Embedment Depth mm	Pilot Hole mm
4.7 x 37mm	5.0 – 20.0	35.0	25.0	4.35

Characteristic pull out loads				
Embedment depth mm	35N /mm ² concrete kN	Common masonry kN	Dense block kN	Hollow block kN
25	2.3	1.3	1.4	n/a
30	4.3	1.5	2.0	5.0
35	5.2	2.3	2.8	5.4

Hardness Rating (Vickers scale)	
Surface Hardness HV	Core Hardness HV
630.0	430.0

Ultimate mechanical performance	
Tensile Strength kN	Shear Strength kN
10.8	13.0

Influence of Concrete Strength on Performance								
Concrete Strength (As per BS EN 206-1:2000) depth mm	Nominal Embedment Depth mm	Concrete Grade						
		C20/25	C25/30	C30/37	C34/45	C40/50	C50/60	>C50/60
30N/mm ²	32.0	0.70	1.00	1.00	1.10	1.15	1.20	1.25

Advanced Setting Data		
Substrate Type	Category	
n/a	Nominal embedment depth	32.0mm
Non cracked concrete (>30N/mm ²)	Minimum base material thickness	100.0mm
	Minimum screw spacing	50.0mm
	Minimum edge distance	50.0mm
Cracked concrete (>30N/mm ²)	Minimum base material thickness	100.0mm
	Minimum screw spacing	50.0mm
	Minimum edge distance	50.0mm

Influence of Edge Distance on Performance / Influence of Anchor Spacing on Performance										
% of stated minimum	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Reduction Factor	0.45	0.55	0.65	0.70	0.70	0.75	0.80	0.85	0.90	1.0

Testing

All test results were derived from empirical testing performed by ETAS (Evolution Testing & Analytical Services) a UKAS (United Kingdom Accreditation Service) accredited testing laboratory (Accreditation No. 7485). The following tests were performed to the following standards.

Test / Parameter	Standard / Method / Procedure
Ultimate Tensile	ISO 6892-1:2009 "Metallic materials – tensile testing – Part 1: Method of test at room temperature."
Ultimate Shear	MIL-STD-1312-13 "Military Standard: Fastener test method (Method 13) Double shear test."
Pull Out (Withdrawal Force)	EN 14566:2009 "Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods."
Pull Over	EN 14592:2008 "Timber structures. Dowel type fasteners. Requirements."
Hardness	ISO 650 7-1: 2005 "Metallic materials – Vickers hardness test – Part 1: Test Method."
Corrosion Resistance	EN ISO 9227: 2012 "Corrosion tests in artificial atmospheres. Salt spray tests".
Drilling Time Test	EN 14566: 2009 "Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods."

Marshall-Tufflex Ltd

Churchfields Industrial Estate
Hastings
East Sussex
TN38 9PU
United Kingdom

T +44 (0)1424 856600
F +44 (0)1424 856611
E sales@marshall-tufflex.com
www.marshall-tufflex.com

Technical Hotline:
+44 (0)1424 856688



Collect your order from our branches:

London (E17 6DJ)
Our London branch is moving Summer 2019 (WD18 0EZ)
Manchester (M26 1GG)
Hastings (TN38 9NU)

Republic of Ireland distributor

Core Electrical Ltd
17b Goldenbridge Industrial Estate
Tyrconnell Road, Inchicore
Dublin 8

T +353 (0)1453 7033
F +353 (0)1453 8911

Northern Ireland distributor

Core Electrical Ltd
Unit 4 Duncrue Industrial Park
Duncrue Road
Belfast, BT3 9BP

T +44 (0)28 900 200 66
F +44 (0)28 900 213 08

In pursuance of our policy of continued product improvement Marshall-Tufflex reserve the right to change the design or specification of its products without notification.

**UK OWNED
UK MANUFACTURER**

