FRS. SUPPLY

SUPPLYING THE ELECTRICAL WHOLESALE TRADE

PRODUCT CATALOGUE

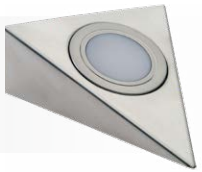


LIGHTING | PHOTOCELLS | CABLE COVERS | VENTILATION

COMPETITIVE PRICES | QUALITY PRODUCTS | FAST DELIVERY

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FRS

FRS have been supplying the **electrical wholesale** trade since 1970

Formed in 1970, primarily as agents selling on behalf of quality manufacturers supplying the electrical wholesale trade, Frank Russell & Son (FRS) has emerged as a leading distributor of a diverse and quality range of products put together to meet the changing needs of today's competitive wholesale market.

FRS are constantly evaluating and sourcing new products to add to the FRS range, and are fully committed to quality and service.

The partners at FRS share over seventy years' experience, supplying electrical wholesalers with their everyday needs, passing on valuable and expert knowledge. Operating from extensive premises, and using a computerised stock control system.

All telephone sales enquiries can usually be answered 'on the spot', and as we offer an overnight delivery service, all our orders could be with you by the next day.

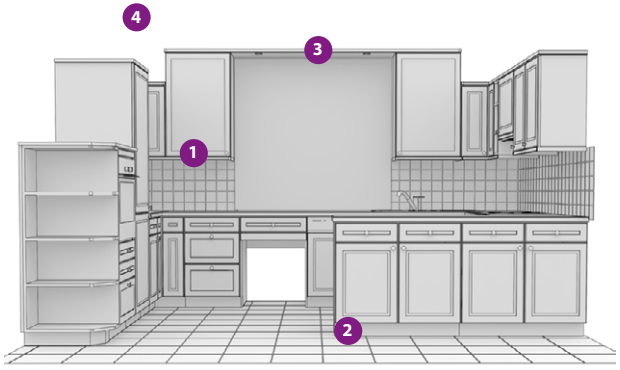


Kitchen Lighting

The range of products to illuminate your kitchen is very extensive, as are the areas from the floor all the way to the ceiling. You should always illuminate work top surfaces well, ensuring that there is quality and approved lighting for the area. This is important for a surface where you will be preparing food. Kitchen units and flooring can be enhanced by background lighting; this will give a professional effect to the space.

Remember that kitchen lighting products must be fitted with the utmost care. Safety is paramount and if you are unsure about installing kitchen lighting, consult a professional.

Some key features of this section include: • Plinth lighting for background effects
• Inner cabinet lights for convenience • Under unit lights – ideal when preparing food
• Over unit lights for show • Spotlights and linear lighting.



1



UNDER UNIT LIGHTS

2



PLINTH LIGHTS

3



LINEAR LIGHTING

4



DOWNLIGHTS

CCT LED ULTRA SLIM LINK LIGHTS

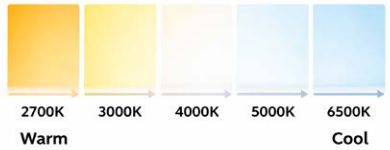


LED ULTRA SLIM LINK LIGHTS - 5 COLOUR CCT

Code	L/mm	H/mm	D/mm	Volts
FR227CCT	277	37	23	240
FR505CCT	505	37	23	240
FR838CCT	838	37	23	240

Code	Watt/ Lumen	2700K	3000K	4000K	5000K	6500K
FR277CCT	**4W**	378Lm	379Lm	405Lm	398Lm	368Lm
FR505CCT	**7W**	645Lm	689Lm	731Lm	712Lm	655Lm
FR838CCT	**13W**	1181Lm	1262Lm	1331Lm	1306Lm	1224Lm





LINK LEADS

Code:	Description:
FR0201T5	250mm link lead
FR0202T5	500mm link lead
FR0203T5	1000mm link lead



Switched linear LED link lights
Low power consumption high lumen output. Linkable up to 6 fittings. Supplied with fixing brackets for horizontal or vertical installation, mains cable and link cable.

LED BRUSHED STEEL 3 LIGHT UNDER UNIT KITS

LOW PROFILE / ULTRA SLIM



LED 5203 / LED 5503

Code	L/mm	H/mm	W/mm	Watts	Lumens	CCT
LED5203	190mm	4.5mm	70mm	4.5	520	3000K
LED5503	190mm	4.5mm	70mm	4.5	550	4000K

1 x master unit C/W switch

Linked to 2x slave units

Each light is 4.5watts & Lumens as per the figures above, the driver is 12V -15Watt, c/w plug & play connectors for quick installation

SATIN LED MAINS VOLTAGE UNDER UNIT LIGHTS



LED 270

Code	Description:
LED270.1	Satin 240v LED recess light warm white 3000k
LED270.2	Satin 240v LED recess light cool white 4000k



Code	Description:
LED270.3	Satin 240v LED surface light warm white 3000k
LED270.4	Satin 240v LED surface light cool white 4000k



Code	Description:
LED270.5	Satin 240v LED angled light warm white 3000k
LED270.6	Satin 240v LED angled light cool white 4000k

Diameter: 70mm. Cut out for recessing 56mm. Lumen output: Cool white 180L / Warm white 150L
Energy consumption: 4w LED. Beam angle: 120. Colour ref: Cool white 4000K / Warm white 3000K
IP rating: IP40. Cable length: 1.5m
Cable supplied with bootlace ends (not supplied with HV connector)

SATIN LED MAINS VOLTAGE UNDER UNIT LIGHTS



LED0701 or LED0702



LED0705 or LED0706



LED0703 or LED0704

Code:	Description:
LED0701SN	Satin mains voltage recessed LED spotlight with 1.5m lead and HV connector. Dia:66mm x 14mm - Cut out: 55mm Lamp ref 3000K Warm White 3Watts
LED0702SN	Satin mains voltage recessed LED spotlight with 1.5m lead and HV connector. Dia: 66mm x 14mm - Cut out: 55mm Lamp ref 4000K Cool White 3Watts
LED0703SN	Satin mains voltage LED spotlight with 1.5m lead and HV connector & surface mounting round base. Dia: 68 x15mm Lamp ref 3000K Warm White 3Watts
LED0704SN	Satin mains voltage LED spotlight with 1.5m lead and HV connector & surface mounting round base. Dia: 68 x15mm Lamp ref 4000K Cool White 3Watts
LED0705SN	Satin mains voltage LED spotlight with 1.5m lead, HV connector & stainless steel triangle base. Size: 125mm width max 48mm height max x 138mm length Lamp Ref 3000K Warm White 3Watts
LED0706SN	Satin mains voltage LED spotlight with 1.5m lead, HV connector & stainless steel triangle base. Size: 125mm width max 48mm height max 138mm length Lamp Ref 4000K Cool White 3Watts

Mains voltage under cabinet lights with cool white or warm white LED
Each fitting is supplied with HV plugs for quick installation
We recommend using our 6-way multi connector c/w 13a BS plug as this will aid quick installation time
No transformer or driver required
IP20 120° angle light. SMD 2835 LED technology. 200 Lumens, power 3 watt.
Energy efficiency claim A+

SWITCHES & ACCESSORIES
FOR LED MAINS VOLTAGE UNDER UNIT LIGHTS



LED0708



LED0711



LED0712



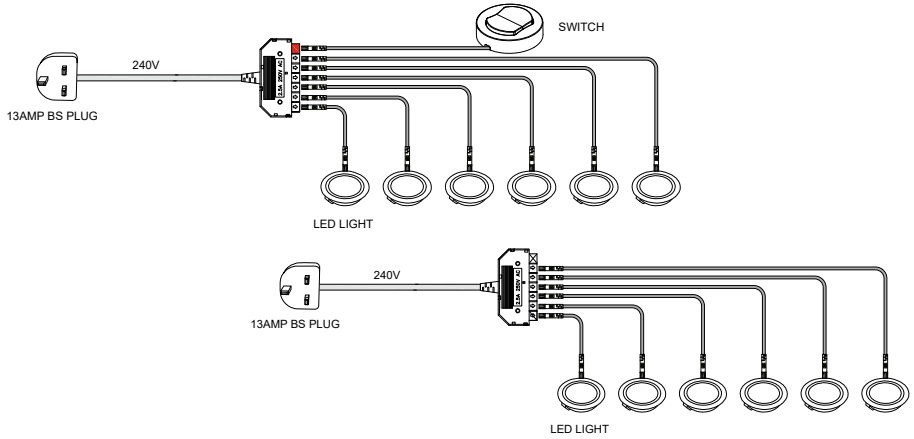
LED0707



LED0713

SWITCHES & ACCESSORIES

Code:	Description:
LED0707	HV 1.0m extension cable
LED0708	HV 6-way connection cable with 1.5m cable + 13amp BS plug
LED0711	Surface switch - dia 66mm - depth 15mm
LED0712	Recessed switch - cutout 55mm - dia 66mm - depth 12mm
LED0713	HV 6-way connection cable with 1.5m cable + 13amp BS plug & master switch connection in red



G4 UNDER UNIT LIGHTS & LV TRANSFORMERS

RECESSED & SURFACE G4 20WATT HALOGEN UNDER UNIT LIGHTS



Code:	Description:
FR20ECSCH	Single recessed satin fitting

Diameter: 74mm / Height: 24mm / Lamp: G4, 20w max, 12v / Cable: 1.5m with amp plug.
Cut out 58mm (for recessing only).
These products require LV transformers



Code:	Description:
FR20CSCH	Single Surface satin fitting

Diameter: 74mm / Height: 24mm / Lamp: G4, 20w max, 12v / Cable: 1.5m with amp plug.
These products require LV transformers



Code:	Description:
FR20TCSCH	Single satin triangular fitting

Length: 145mm / Width max: 130mm / Height max: 40mm
Lamp: G4, 20w max, 12v / Cable: 1.5m with amp plug.
These products require LV transformers

G4 UNDER UNIT LIGHTS & LED DRIVERS

RECESSED & SURFACE FITTINGS G4 LED LAMPS



Code:	Description:
LED1603WW	Single Surface satin fitting G4 LED lamp 1.5W 3000K 100 lumens
LED1603CW	Single Surface satin fitting G4 LED lamp 1.5W 4000K 100 lumens

Diameter: 74mm / Height: 24mm / Lamp: G4, / Cable: 1.5m with amp plug.
These products require LED DRIVERS SEE BELOW

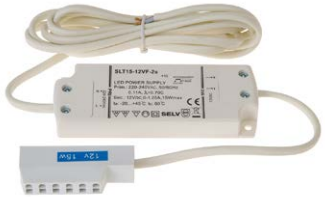


Code:	Description:
LED1503WW	Single Surface satin triangular fitting G4 LED lamp 1.5W 3000K 100 lumens
LED1503CW	Single Surface satin triangular fitting G4 LED lamp 1.5W 4000K 100 lumens

Length: 145mm / Width max: 130mm / Height max: 40mm
Lamp: G4, 20w max, 12v / Cable: 1.5m with amp plug.
These products require LED DRIVERS SEE BELOW

Code:	Description:
LED0601/02	LED driver, 0-6 watt with AMP connection block
LED0602/02	LED driver, 1-15 watt with AMP connection block





IP65 LED 5 LIGHT WALK OVER KITS



5 LIGHT KITS

Code:	Description:
LED0401WW	Warm White, 5 light LED walk over kit

• LED Type: 5mm • LED Q'TY: 5*6 • Beam Angle: 15° • Minimum luminous flux(lm): 5*30
• LED Watt: 5*0.5W • Safety Class: III • Safety Type: IP65 • Material: Aluminium+PC • Driver: Exterior incl

Walk over decking LED lights
Each light & driver is supplied with water proof connectors.

IP65 walk over lights, suitable for internal & external installations.
Bezel dia: 40mm / Bezel height: 3mm / Cut out: 35mm / Fitting depth: 50mm
240V supply - 12v output



Lighting

The choice is endless, but remember these few points.

- What is the light being used for?
- Task lighting, background lighting, mood lighting etc.
- Make sure the light fitting produces the desired lighting effect and is positioned correctly.
- Be able to control the light source or have easily changeable lamps.
- Meet current building regulations

TRACK LIGHT KITS



MT332SB



MT313BL



MT316BL

Code:	Description:
MT332SB	3 x Satin Brass GU10 Spot Lights c/w 1mtr black track with live & dead ends & 3 x LED GU10 lamps
MT313BL	3 x Black GU10 Spot Lights c/w 1mtr black track with live & dead ends & 3 x LED GU10 lamps
MT316BL	3 x Black GU10 Spot Lights c/w 1mtr black track with live & dead ends & 3 x LED GU10 lamps
MT313WH	3 x White GU10 Spot Lights c/w 1mtr white track with live & dead ends & 3 x LED GU10 lamps
MT316WH	3 x White GU10 Spot Lights c/w 1mtr white track with live & dead ends & 3 x LED GU10 lamps
MT313SV	3 x Silver GU10 Spot Lights c/w 1mtr silver track with live & dead ends & 3 x LED GU10 lamps
MT316SV	3 x Silver GU10 Spot Lights c/w 1mtr silver track with live & dead ends & 3 x LED GU10 lamps

TRACK LIGHT KITS



MT313WH



MT316WH



MT313SV



MT316SV

BLACK GU10 TRACK SPOTS



MT13BL



MT16BL







MT32SB

Code:	Description:
MT13BL	Black single mesh track spot
MT16BL	Black single round track spot
MT32SB	Satin brass GU10 spot light

Mains voltage track system 16A - 240V
Available in white, silver & black
GU10 halogen lamps or retro fit LED lamps can be used
Rotate or tilt to illuminate all areas when using spot or flood lamps

BLACK 9 WATT DIMMABLE LED TRACK SPOT









Code:	Description:
MT31BL	9 watt dimmable LED track spot c/w built in driver

Mains voltage track system 16A - 240V

Beam angle 38° / lumens 730 @ 3000K.
Size: Length 95mm: Dia 56mm: Height 110mm

BLACK TRACK & ACCESSORIES



MT01BL



MT03BL



MT04BL



MT11BL



MT05BL



MT17BL



MT07BL



MT06BL

BLACK TRACK & ACCESSORIES



MT08BL



MT10BL



MT19BL

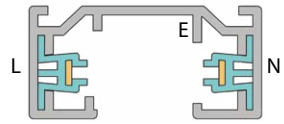


MT20BL

Code:	Description:
MT01BL	1 Metre Black track (c/w with live & dead ends)
MT03BL	2 Metre Black track (c/w with live & dead ends)
MT04BL	Black mini straight connector
MT11BL	Black dead end
MT17BL	Black live end feed

Code:	Description:
MT05BL	Black L connector
MT06BL	Black T connector
MT07BL	Black cross connector
MT08BL	Black flexi connector
MT19BL	Black centre live feed
MT20BL	Black track adaptor
MT10BL	Black suspension kit 3M

Mains voltage track system 16A - 240V
Available in white, silver & black



Track Cross Section 34x17mm

TRACK & ACCESSORIES

WHITE GU10 TRACK SPOTS



MT13WH



MT16WH





Code:	Description:
MT13WH	White single mesh track spot
MT16WH	White single round track spot

Mains voltage track system 16A - 240V
Available in white, silver & black
GU10 halogen lamps or retro fit LED lamps can be used
Rotate or tilt to illuminate all areas when using spot or flood lamps

WHITE 9 WATT DIMMABLE LED TRACK SPOT









Code:	Description:
MT31WH	9 watt dimmable LED track spot c/w built in driver

Mains voltage track system 16A - 240V
Beam angle 38° / lumens 730 @ 3000K.
Size: Length 95mm: Dia 56mm: Height 110mm

WHITE TRACK & ACCESSORIES



MT01WH



MT03WH



MT04WH



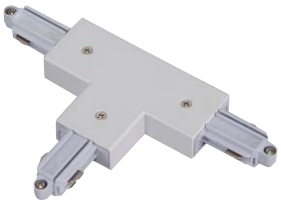
MT11WH



MT17WH



MT05WH



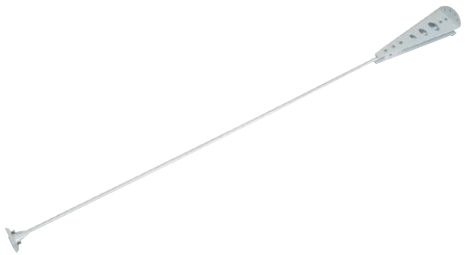
MT06WH



MT07WH



MT08WH



MT09WH

WHITE TRACK & ACCESSORIES



MT10WH



MT12WH



MT19WH

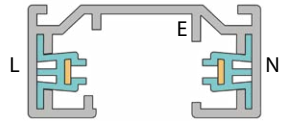


MT20WH

Code:	Description:
MT01WH	1 Metre White track (c/w with live & dead ends)
MT03WH	2 Metre White track (c/w with live & dead ends)
MT04WH	White mini straight connector
MT11WH	White dead end
MT17WH	White live end feed

Code:	Description:
MT05WH	White L connector
MT06WH	White T connector
MT07WH	White cross connector
MT08WH	White flexi connector
MT09WH	White ceiling connector
MT10WH	White suspension kit 3m
MT12WH	White support – top
MT19WH	White centre live feed
MT20WH	White track adaptor

Mains voltage track system 16A - 240V
Available in white, silver & black



Track Cross Section 34x17mm

SILVER GU10 TRACK SPOTS



MT13SV



Code:	Description:
MT13SV	Silver single mesh track spot

Mains voltage track system 16A - 240V
Available in white, silver & black
GU10 halogen lamps or retro fit LED lamps can be used
Rotate or tilt to illuminate all areas when using spot or flood lamps

SILVER GU10 TRACK SPOTS



MT16SV



Code:	Description:
MT16SV	Silver single round track spot

Mains voltage track system 16A - 240V
Available in white, silver & black
GU10 halogen lamps or retro fit LED lamps can be used
Rotate or tilt to illuminate all areas when using spot or flood lamps

TRACK SPOTS

SILVER TRACK & ACCESSORIES



MT01SV



MT03SV



MT04SV



MT11SV



MT17SV



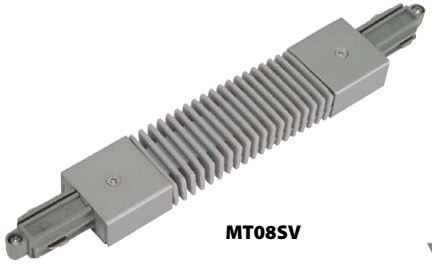
MT05SV



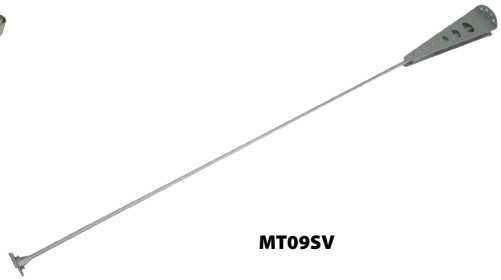
MT06SV



MT07SV



MT08SV



MT09SV

SILVER TRACK & ACCESSORIES



MT10SV



MT12SV



MT19SV

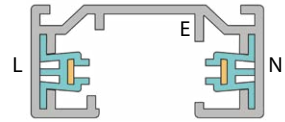


MT20SV

Code:	Description:
MT01SV	1 Metre Silver track (c/w with live & dead ends)
MT03SV	2 Metre Silver track (c/w with live & dead ends)
MT04SV	Silver mini straight connector
MT11SV	Silver dead end
MT17SV	Silver live end feed

Code:	Description:
MT05SV	Silver L connector
MT06SV	Silver T connector
MT07SV	Silver cross connector
MT08SV	Silver flexi connector
MT09SV	Silver ceiling connector
MT10SV	Silver suspension kit 3m
MT12SV	Silver support – top
MT19SV	Silver centre live feed
MT20SV	Silver track adaptor

Mains voltage track system 16A - 240V
Available in white, silver & black



Track Cross Section 34x17mm

G9 PICTURE LIGHTS



Brass



Antique brass



Chrome



Satin

Code:	Description:
FR2101BR	Brass G9 picture light
FR2102AT	Antique brass G9 picture light
FR2103CH	Chrome G9 picture light
FR2104SN	Satin G9 picture light

Traditional style picture light
2x 25watt G9 Halogen lamps supplied. 240v Supply
Width: 360mm / Depth: 210mm / Base dia: 82mm / Lamp: 2 x G9 / Wattage: 2x25w max

Code:	Description:
FR2101BR/LWW	Brass G9 LED picture light, c/w LED warm white G9 lamps
FR2102AT/LWW	Antique Brass G9 LED picture light, c/w LED warm white G9 lamps
FR2103CH/LWW	Chrome G9 LED picture light, c/w LED warm white G9 lamps
FR2104SN/LWW	Satin G9 LED picture light, c/w LED warm white G9 lamps

Code:	Description:
FR2101BR/LCW	Brass G9 LED picture light, c/w LED cool white G9 lamps
FR2102AT/LCW	Antique Brass G9 LED picture light, c/w LED cool white G9 lamps
FR2103CH/LCW	Chrome G9 LED picture light, c/w LED cool white G9 lamps
FR2104SN/LCW	Satin G9 LED picture light, c/w LED cool white G9 lamps

Traditional style picture light with a modern twist
2x 2watt G9 LED Lamps. Warm White, 3000K, 230 Lumens. Cool white, 4000K, 250 Lumens. 240v Supply Width: 360mm / Depth: 210mm / Base dia: 82mm / Lamp: 2 x G9 / Wattage: 2x25w max

FIXED, TWIST & LOCK DOWNLIGHTS



Chrome



Satin



White

GU10, MAINS 240v DOWNLIGHTS

Code:	Description:
FR50HCSN/1	Satin nickel GU10 downlight
FR50HCCH/1	Chrome GU10 downlight
FR50HCWH/1	White GU10 downlight



TILT, TWIST & LOCK DOWNLIGHTS



Chrome



Satin



White

GU10, MAINS 240v DOWNLIGHTS

Code:	Description:
FR50HTSN/1	Satin nickel GU10 tilt downlight
FR50HTCH/1	Chrome GU10 tilt downlight
FR50HTWH/1	White GU10 tilt downlight



Die-cast aluminium downlights
Twist & lock lamp retaining ring for easy lamp replacement
Lamp type: GU10 Halogen lamps 50watt max or LED retro fit lamps

Fixed, twist & lock downlights
Cut out: 66mm / Bezel dia: 80mm / Depth: 5mm / Void height: 90mm. Not supplied with lamps.

Tilt, twist & lock downlights
Cut out: 83mm / Bezel dia: 95mm / Depth: 6-18mm / Void height: 110mm. Not supplied with lamps.

IP65 FIXED DOWNLIGHTS



Chrome



Satin



White



Brass

GU10, MAINS 240v DOWNLIGHTS

Code:	Description:
FR501CSDSCH/1	Satin nickel, IP65 GU10 downlight
FR501CSDCH/1	Chrome, IP65 GU10 downlight
FR501CSDWH/1	White, IP65 GU10 downlight
FR501CSDBR/1	Brass, IP65 GU10 downlight

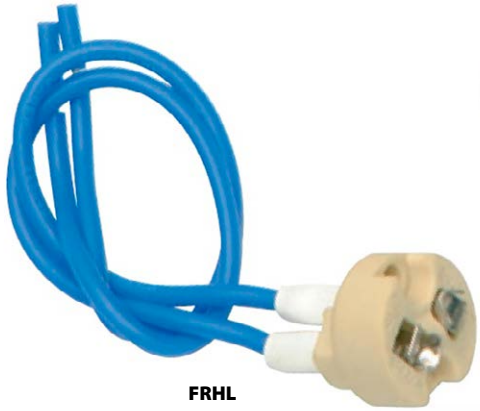


Die-cast aluminium fixed downlights with clear glass
Fixed bezel with twist & lock lamp retaining ring for easy lamp replacement
Lamp type: GU10 Halogen 50watt max or LED retro fit lamps
Lamp type: Low voltage MR16 halogen 50watt max

Cut out: 70mm / Bezel dia: 84mm / Depth: 7mm / Void height: 98mm. Not supplied with lamps.

*** Purchase MR16 lamp holder to convert to low voltage**

LIGHTING SPARES



FRHL



FRGUL



FRSTBGU10



FRCP

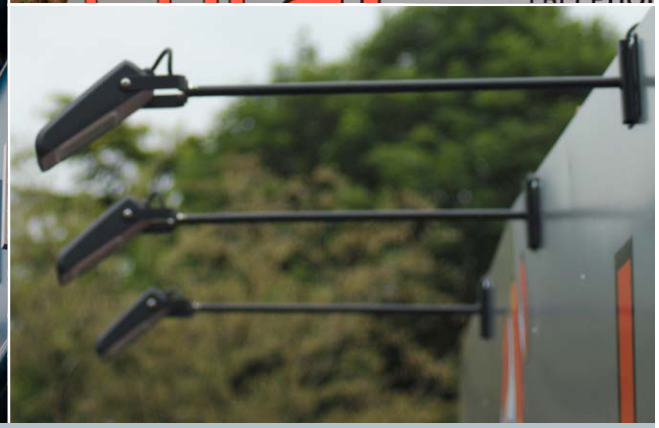
Code:	Description:
FRHL	MR16 halogen lamp holder. Length 150mm
FRGUL	GU10 lamp holder. Length 170mm
FRSTBGU10	GU10 lamp holder, stirrup bar, terminal block & earth point
FRCP	Spring clip, lamp retaining ring











Sign and Menu Lighting

LED SIGN LIGHT





Code:	Description:
FR9LEDBLSL	Black 9w LED sign light

LED sign light
9watt, 4000k, 850lm, IP65, 240v,
Size's, total length 850mm, bracket length 580mm, bracket base 110mm x 110mm, cable length 450mm

6 " SIGN & MENU LIGHTS

A classic design of sign and menu lighting perfect for pubs, restaurants and shops.



FR6BLSL



FR6SNSL

Code:	Description:
FR6BLSL	Powder coated black sign light
FR6SNSL	Powder coated silver sign light

Metal sign lights
Powder coated finish black & silver colours. White reflector for more illumination
13" arm / 6" cowl / Besa fixing plate / 48W E27 lamp holder.

9" CLASSIC SWAN NECK SIGN LIGHTS

A classic design of sign lighting perfect for pubs, restaurants and shops.



FR9BLSL



FR9SNSL

Code:	Description:
FR9BLSL	Powder coated black sign light
FR9SNSL	Powder coated silver sign light

Metal sign lights
Powder coated finish black & silver colours. White reflector for more illumination.
20" arm / 9" cowl / Besa fixing plate / 100W ES lamp holder.



Photocells
(dusk to dawn sensors)

Why use photocells?

Firstly, photocells are an economical way of switching lights on and off by using dusk and dawn as the triggers to switch lights on when required and off when not. There are a few points to remember when selecting photocells; after all, it's always good to save on energy costs.

Burning hours: How long are the lights on for?

Standard photocells come on at dusk and switch off at dawn (FRP3 70 Lux on and 105 Lux off). Some of the reasons for having lights on during the night include meeting health and safety requirements and for security reasons. For anyone who doesn't require lights to be switched on for the entire night, you may want to consider a Part-night Photocell. These units switch on at dusk and off at midnight. If required, they can be set to come back on in the early hours of the morning up to 5am.

In the summer your lights might not come on very often due to the brightness of the summer months. However, in the winter, you could expect them to be on a lot more.

Another option is a Night Owl; these can be set to switch off a number of hours after dusk. You can also go for a lower LUX level, this means the lights come on later in the night and go off earlier in the morning, reducing the burning hours.

The next step is to spec the correct photocell to ensure that it can handle the load it is switching. One example is LED flood lights, where the wattages used might be low but the 'inrush' current can be fairly high. This is due to the control gear not having full power-factor corrected gear.

This is only a short summary of photocells & types. If you require any more information, or if you are in any doubt over what photocell you require, please contact our sales office.

FRS PHOTOCELL HEADS & KITS



FRPEC01



FRPEC01KT



FRP3



FRP3KT

Code:	Description:
FRPEC01	Photocell head only
FRPEC01KT	Photocell kit
FRP3	Photocell head only
FRP3KT	Photocell kit

Code:	Max load	Amps	Voltage	Lux on	IP rating	Guarantee
FRPEC01	1 x 250w	5	240v	70	IP65	1 Year
FRPEC01KT	1 x 250w	5	240v	70	IP65	1 Year
FRP3	2 x 250w	5	240v	70	IP65	1 Year
FRP3KT	2 x 250w	5	240v	70	IP65	1 Year

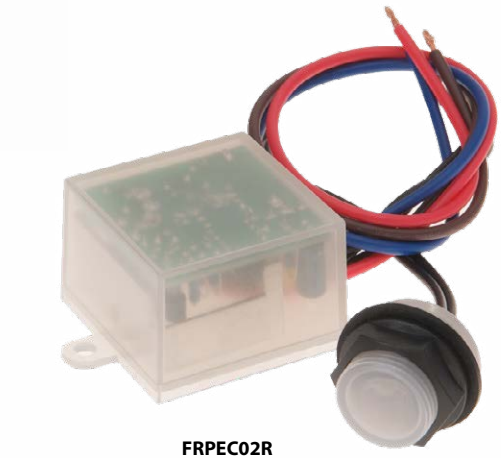
Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufacturers continued improvements and redesign. E&OE

FRS MINIATURE PHOTOCELLS



FRPEC02



FRPEC02R

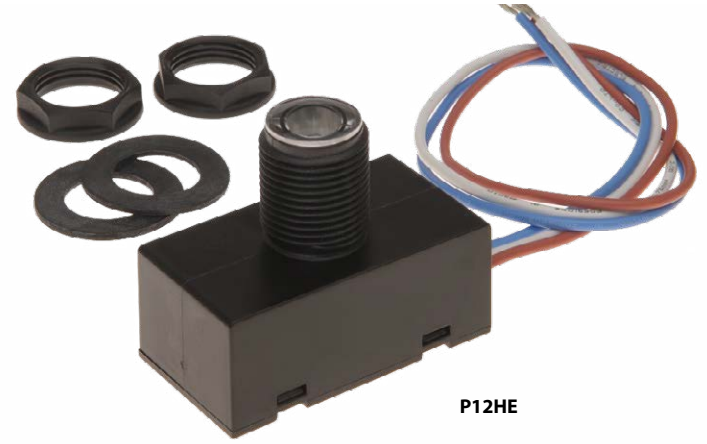
Code:	Description:
FRPEC02	Miniature photocell
FRPEC02R	Remote miniature photocell

Code:	Max load	Amps	Voltage	Lux on	IP rating	Guarantee
FRPEC02	1 x 250w	5	240v	70	IP65	1 Year
FRPEC02R	1 x 250w	5	240v	70	IP65	1 Year

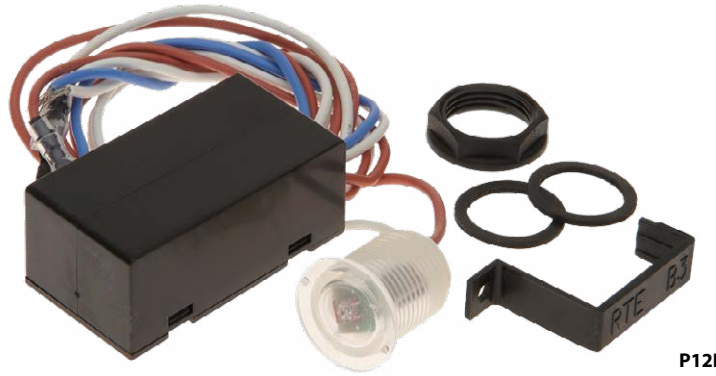
Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufacturers continued improvements and redesign. E&OE

MINIATURE PHOTOCELLS



P12HE



P12R

Code:	Lux on / off	Max load	IP rating	Voltage	Guarantee
P12H	70 / 35	250W	IP65	240V	1 Year
P12R	70 / 35	250W	IP65	240V	1 Year

Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufacturers continued improvements and redesign. E&OE

PHOTOCELLS





Code:	Description:
SS4	Photocell head
SS4KT	Photocell kit
SS4ED	Photocell head*
SS4EDKT	Photocell kit*

*Surge protected

Code:	Max load	Voltage	Lux on	IP rating	Guarantee
SS4	250w (LED)	240v	70	IP65	1 Year
SS4ED	250w (LED)	240v	70	IP65	1 Year

Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufacturers continued improvements and redesign. E&OE

PHOTOCELLS



SS5 DRHD



SS5 DRHDK

Code:	Description:
SS5 DRHD	Heavy duty photocell head
SS5 DRHDK	Heavy duty photocell kit

Max load	Voltage	Lux on	IP rating	Guarantee
1000w (LED)	240v	70	IP65	5 Years

Important:
This photocell is recommended for use with LED lighting. Up to 1000w max.

PHOTOCELLS 110V



SS3



SS3K

Code:	Description:
SS3 110V	110v photocell head
SS3K 110V	110v photocell kit

Max load	Voltage	Lux on	IP rating	Guarantee
400w (LED)	110v	70	IP65	4 Years

Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufactures continued improvements & redesign. E&OE

PART NIGHT PHOTOCELL



SS9



SS9K

Code:	Description:
SS9	Part night photocell head
SS9K	Part night photocell kit

The SS9 is a NEMA photocell featuring Part-Night operation, offering ultimate energy saving by automatically switching the light off for a defined section of the night. Midnight – 05:30am.

Fully interchangeable with conventional NEMA photocells.

Offers up to 50% energy savings when compared with the equivalent full-night photocell.

Max load	Voltage	Lux on	IP rating	Guarantee
250w (LED)	240v	70	IP65	6 Years

Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufactures continued improvements & redesign. E&OE

PART NIGHT MINIATURE PHOTOCELL



Code:	Description:
SS19	Part night miniature photocell

The ultimate energy saver in a miniature 20mm miniature format.

Offering part-night operation. Midnight – 05:30am.

SS19 can offer significant energy savings by automatically switching the light off for part of the night when it is not needed.

Max load	Voltage	Lux on	IP rating	Guarantee
250w (LED)	240v	70	IP65	6 Years

Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufactures continued improvements & redesign. E&OE

MINIATURE & REMOTE PHOTOCELLS





Code:	Description:
SS14	Miniature photocell
SS14R	Remote miniature photocell

Max load	Voltage	Lux on	IP rating	Guarantee
250w (LED)	240v	70	IP65	3 Years

Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufactures continued improvements & redesign. E&OE

TIME DELAY PHOTOCELLS



Code:	Description:
NIGHTHAWK	Time delay photocell

Reference
This unit has adjustable time settings
2/4/6/8 these are the number of hours settings and lux level adjustable

Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufacturers continued improvements and redesign. E&OE

BRACKET



B17

Code:	Description:
B17	Nema base & bracket

DUMMY BASE



B16

Code:	Description:
B16	Dummy base/shorting plug

Important:
When using photo-cells with LED flood lights always check with the manufacturer of the LED flood lights the inrush current before selecting the photocell.

Specification can change due to manufacturers continued improvements and redesign. E&OE





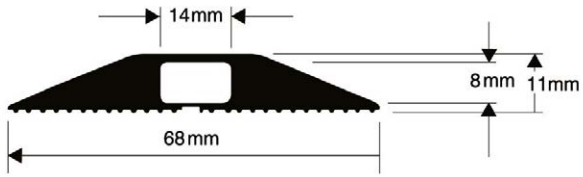


Cable Protectors

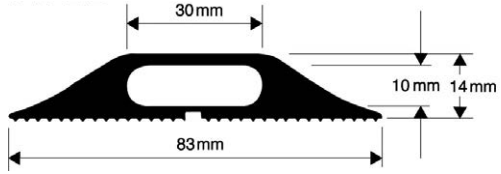
FRS rubber cable protectors help create a safer environment in your workplace, either in the office or on the shop floor. With a wide range of profile selections available, they help you comply with health and safety requirements and play a major role in preventing accidents caused by loose, trailing cables, air lines or hoses etc.

CABLE PROTECTORS

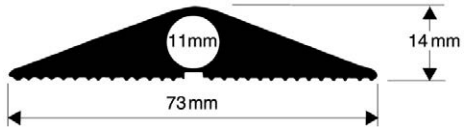
Standard Type



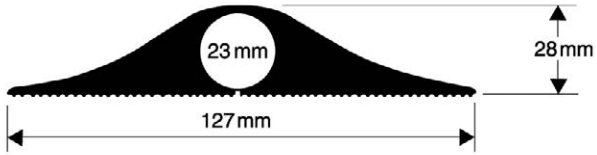
Type B



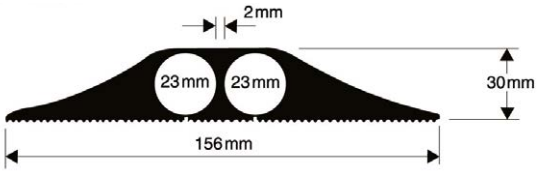
Type E



Type F



Type FF

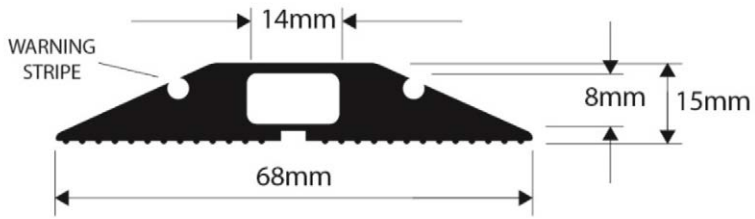


Code	Approx Hole Dimensions	Length	Width	Height
Standard Type	8mm x 14mm	9m	68mm	11mm
Standard Type / 3	8mm x 14mm	3m	68mm	11mm
Type B	10mm x 30mm	9m	83mm	14mm
Type B / 3	10mm x 30mm	3m	83mm	14mm
Type E	11mm bore	9m	73mm	14mm
Type E / 3	11mm bore	3m	73mm	14mm
Type F	23mm bore	9m	127mm	28mm
Type F / 3	23mm bore	3m	127mm	28mm
Type FF	2 x 23mm bore	4.5m	156mm	30mm

CABLE PROTECTORS

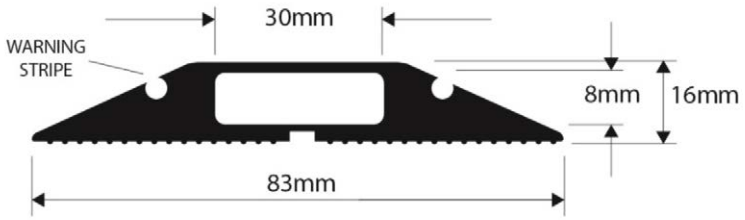


HAZ 1



Code	Approx Hole Dimensions	Length	Width	Height
HAZ1	8 x 14mm	9m	68mm	15mm
HAZ1 / 3	8 x 14mm	3m	68mm	15mm

HAZ 2



Code	Approx Hole Dimensions	Length	Width	Height
HAZ2	10 x 30mm	9m	83mm	16mm
HAZ2 / 3	10 x 30mm	3m	83mm	16mm



Ventilation

Extraction of stale air & condensation from bathrooms & kitchens is a must to stop damp and mould. Good quality ventilation is essential for ensuring that you adhere to building regulations.

A few points to remember:

- Ducting comes in many sizes
- Types of ducting; round or square, solid, flexible, or insulated.
- Make sure you have adequate space to install the ducting.
- Grilles to match the external colour of your building or grilles for use inside your rooms.

Fans & extraction cooker hoods must have the correct size ducting. Please refer to the manufacturers recommended specification.

4”-5”-6” GRAVITY GRILLES

4” GRAVITY GRILLES

Code:	Description:	Size:
FRV4GGWH	4” White gravity grille	4” Spigot
FRV4GGBR	4” Brown gravity grille	4” Spigot
FRV4GGTC	4” Terracotta gravity grille	4” Spigot
FRV4GGBG	4” Beige gravity grille	4” Spigot
FRV4GGBK	4” Black gravity grille	4” Spigot



Black gravity grille

5” GRAVITY GRILLES

Code:	Description:	Size:
FRV5GGWH	5” White gravity grille	5” Spigot
FRV5GGBR	5” Brown gravity grille	5” Spigot
FRV5GGTC	5” Terracotta gravity grille	5” Spigot
FRV5GGBG	5” Beige gravity grille	5” Spigot
FRV5GGBK	5” Black gravity grille	5” Spigot



Brown gravity grille

6” GRAVITY GRILLES

Code:	Description:	Size:
FRV6GGWH	6” White gravity grille	6” Spigot
FRV6GGBR	6” Brown gravity grille	6” Spigot
FRV6GGTC	6” Terracotta gravity grille	6” Spigot
FRV6GGBG	6” Beige gravity grille	6” Spigot



Terracotta gravity grille



White gravity grille



Beige gravity grille

4” FIXED GRILLES

Code:	Description:	Size:
FRV4FGWH	4” White fixed grille	4” Spigot
FRV4FGBR	4” Brown fixed grille	4” Spigot
FRV4FGTC	4” Terracotta fixed grille	4” Spigot
FRV4FGBG	4” Beige fixed grille	4” Spigot
FRV4FGBK	4” Black fixed grille	4” Spigot
FRV4FGAN	4” Anthracite fixed grille RAL 7016	4” Spigot

Supplied with fly-screen



Anthracite fixed grille

5” FIXED GRILLES

Code:	Description:	Size:
FRV5FGWH	5” White fixed grille	5” Spigot
FRV5FGBR	5” Brown fixed grille	5” Spigot
FRV5FGTC	5” Terracotta fixed grille	5” Spigot
FRV5FGBG	5” Beige fixed grille	5” Spigot
FFV5FGBK	5” Black fixed grille	5” Spigot

Supplied with fly-screen



White fixed grille

6” FIXED GRILLES

Code:	Description:	Size:
FRV6FGWH	6” White fixed grille	6” Spigot
FRV6FGBR	6” Brown fixed grille	6” Spigot
FRV6FGTC	6” Terracotta fixed grille	6” Spigot
FRV6FGBG	6” Beige fixed grille	6” Spigot
FRV6FGBK	6” Black fixed grille	6” Spigot

Supplied with fly-screen



Brown fixed grille



Terracotta fixed grille



Black fixed grille



Beige fixed grille

4" COWLED GRILLES & 4" HIGH RISE KITS

4" COWLED GRILLES

Code:	Description:	Size:
FRV4CGWH	4" White cowled grille	4" spigot
FRV4CGBR	4" Brown cowled grille	4" spigot
FRV4CGBK	4" Black cowled grille	4" spigot



White cowled grille



Brown cowled grille



Black cowled grille

HIGH RISE KITS

4"/100mm HIGH RISE KITS

Code:	Description:	Size:
FRV21HRB	High rise vent brown	4"/100mm
FRV21HRW	High rise vent white	4"/100mm



High rise vent white



High rise vent brown

AIR VALVES

Code:	Description:	Size:
FRV04AV	Air valve with spigot	4"/100mm
FRV05AV	Air valve with spigot	5"/125mm
FRV06AV	Air valve with spigot	6"/150mm



ROUND AIR VENTS

Code:	Description:	Size:	
FRV4RGCH	Chrome plastic air vent	100mm / 4" spigot	100mm / 4" spigot
FRV4RGWH	White plastic air vent	100mm / 4" spigot	100mm / 4" spigot
FRV5RGWH	White plastic air vent	125mm / 5" spigot	125mm / 5" spigot
FRV6RGWH	White plastic air vent	150mm / 6" spigot	150mm / 6" spigot



Chrome plastic air vent



White plastic air vent

INSULATED & ALUMINIUM FLEXIBLE DUCTING



10M INSULATED FLEXIBLE ALUMINIUM DUCTING

Code:	Description:	Size:
FRV410ADIN	4" Alu flex duct	4" x 10m
FRV510ADIN	5" Alu flex duct	5" x 10m
FRV610ADIN	6" Alu flex duct	6" x 10m



3M FLEXIBLE ALUMINIUM DUCTING

Code:	Description:	Size:
FRV403AD	4" Alu flex duct	4" x 3m
FRV503AD	5" Alu flex duct	5" x 3m
FRV603AD	6" Alu flex duct	6" x 3m



10M FLEXIBLE ALUMINIUM DUCTING

Code:	Description:	Size:
FRV410AD	4" Alu flex duct	4" x 10m
FRV510AD	5" Alu flex duct	5" x 10m
FRV610AD	6" Alu flex duct	6" x 10m

4" PVC DUCTING

Code:	Description:	Size:
FRV401PD	4" White PVC flex duct	4" x 1m
FRV403PD	4" White PVC flex duct	4" x 3m
FRV406PD	4" White PVC flex duct	4" x 6m
FRV415PD	4" White PVC flex duct	4" x 15m
FRV445PD	4" White PVC flex duct	4" x 45m



5" PVC DUCTING

Code:	Description:	Size:
FRV501PD	5" White PVC flex duct	5" x 1m
FRV503PD	5" White PVC flex duct	5" x 3m
FRV506PD	5" White PVC flex duct	5" x 6m
FRV515PD	5" White PVC flex duct	5" x 15m



6" PVC DUCTING

Code:	Description:	Size:
FRV601PD	6" White PVC flex duct	6" x 1m
FRV603PD	6" White PVC flex duct	6" x 3m
FRV606PD	6" White PVC flex duct	6" x 6m
FRV615PD	6" White PVC flex duct	6" x 15m



VENTILATION ACCESSORIES



THREADED HOSE CONNECTORS

Code:	Description:	Size:
FRV01TCON	Male connector	100mm o/d
FRV02TCON	Female connector	100mm i/d

WORM DRIVE CLIPS



Code:	Description:	Size:
FRV01WDC	4" Worm drive clip	100mm
FRV02WDC	5" Worm drive clip	125mm
FRV03WDC	6"Worm drive clip	150mm

DUCT TAPE



Code:	Description:	Size:
DTAPE1	PVC Duct tape	50mm x 33mtr
DTAPE2	Aluminium duct tape	50mm x 45mtr

4"-5"-6" DIA ROUND PLASTIC PIPE & ACCESSORIES



ROUND PIPE

Code:	Description:	Size:
FRV401RP	Plastic round pipe	100mm dia x 350mm
FRV402RP	Plastic round pipe	100mm dia x 1mtr
FRV403RP	Plastic round pipe	100mm dia x 2mtr
FRV501RP	Plastic round pipe	125mm dia x 350mm
FRV502RP	Plastic round pipe	125mm dia x 1mtr
FRV503RP	Plastic round pipe	125mm dia x 2mtr
FRV601RP	Plastic round pipe	150mm dia x 350mm
FRV602RP	Plastic round pipe	150mm dia x 1mtr
FRV603RP	Plastic round pipe	150mm dia x 2mtr

PIPE FASTENER



Code:	Description:	Size:
FRV01PF	Pipe fastener	100mm dia
FRV02PF	Pipe fastener	125mm dia
FRV03PF	Pipe fastener	150mm dia

4”-5”-6” DIA ROUND PLASTIC PIPE & ACCESSORIES

EQUAL T

Code:	Description:	Size:
FRV01TEE	Equal tee	100mm dia
FRV02TEE	Equal tee	125mm dia
FRV03TEE	Equal tee	150mm dia



3 WAY SPLITTER / Y PIECE

Code:	Description:	Size:
FRV01Y	3 way splitter	100mm dia
FRV02Y	3 way splitter	125mm dia
FRV03Y	3 way splitter	150mm dia



CONDENSATION TRAP

Code:	Description:	Size:
FRV04CT	Plastic condensation trap	100mm/4”



REDUCERS

Code:	Description:	Size:
FRV01RED	Plastic reducer	5” - 4”
FRV02RED	Plastic reducer	6” - 5”
FRV03RED	Plastic reducer	6” - 4”



4”-5”-6” DIA ROUND PLASTIC PIPE & ACCESSORIES

PIPE CONNECTORS

Code:	Description:	Size:
FRV405RP	Pipe connector	100mm dia
FRV505RP	Pipe connector	125mm dia
FRV605RP	Pipe connector	150mm dia



PIPE CONNECTORS WITH DAMPER

Code:	Description:	Size:
FRV406RP	Pipe con & damper	100mm dia
FRV506RP	Pipe con & damper	125mm dia
FRV606RP	Pipe con & damper	150mm dia



90° BEND

Code:	Description:	Size:
FRV408RP	90° Bend	100mm dia
FRV508RP	90° Bend	125mm dia
FRV608RP	90° Bend	150mm dia



VENTILATION

110 x 54mm FLAT CHANNEL DUCTING & ACCESSORIES

FLAT CHANNEL DUCTING

Code:	Description:	Size:
FRV01FCD	Flat channel duct	110 x 54mm x 1mtr
FRV020FCD	Flat channel duct	110 x 54mm x 2mtr
FRV03FCD	Flat duct clips	
FRV04FCD	Flat duct connector	
FRV05FCD	Flat duct con & damper	
FRV06FCD	Elbow bend 100mm i/d	
FRV07FCD	Elbow bend & insert 100mm o/d	
FRV08FCD	Horizontal 90° bend	
FRV09FCD	Vertical 90° bend	
FRV10FCD	Round to rectangle adaptor	
FRV11FCD	Short round to rectangle	
FRV12FCD	Horizontal T piece	
FRV24FCD	Flexible ducting	110 x 54mm x 3mtr



FRV01FCD/FRV020FCD



FRV03FCD



FRV04FCD



FRV05FCD

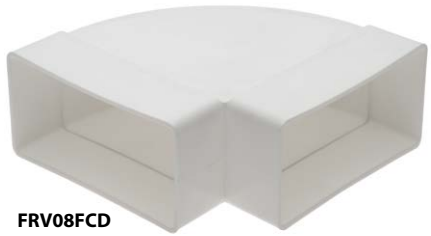
110 x 54mm FLAT CHANNEL DUCTING & ACCESSORIES



FRV06FCD



FRV07FCD



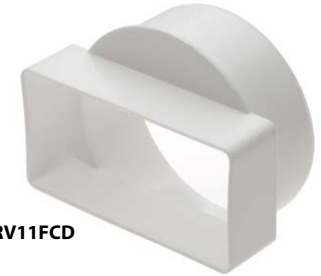
FRV08FCD



FRV09FCD



FRV10FCD



FRV11FCD



FRV12FCD



FRV24FCD

VENTILATION

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