

BARTON

METALLIC CABLE PROTECTION EQUIPMENT

CONDUIT & FITTINGS

TRUNKING

ADAPTABLE/SWITCH
& SOCKET BOXES

RMC/IMC/EMT
STAINLESS SYSTEMS



THE COMPANY

Barton Engineering produce and supply the premium quality Barton brand of UK manufactured hot dipped galvanised steel conduit, all main associated electrical cable management systems and a wide range of accessories and fittings.

Barton conduit is produced at its own largescale, modern integrated tube rolling mill in Oldbury, which is located in the industrial West Midlands region of the UK.

Barton products are renowned for their high quality, competitive pricing and worldwide exports.

In 2015, Liberty House Group acquired the business and assets, including all worldwide IPR and trademarks of Barton and today Barton Engineering is an operating division of Liberty Precision Tubes, part of Liberty Tubular Solutions.

Liberty House Group is an international business, specialising in metals trading, manufacture and distribution of steel and advanced engineering products. Operating from four strategically positioned financial hubs in London, Dubai, Singapore and Hong Kong, the Group has sites in Europe, Africa, the Far and Middle East, Australia and North America.

In the Middle East, the entire Barton range is exclusively available through Liberty Building Solutions FZE, who operates a regional distribution centre at Jebel Ali Free Zone South, UAE.

THE QUALITY

The premium quality products listed in this brochure are either manufactured by Barton Engineering under a certified and independently audited ISO 9001 Quality Management System at Liberty Precision Tubes, or are manufactured by our approved suppliers under a certified ISO 9001 system or have their quality assured to the same level rigorous inspection processes at Barton Engineering.

The ISO 9001 Quality Management System includes a complete set of working practices, disciplines and procedures implemented at each stage of the manufacturing programme from raw material receipt to final pre delivery inspection.

As a result, all Barton products perform to the highest quality and safety standards.

THE SERVICE

Barton provide a highly efficient customer focused operation, with fully trained specialist sales personnel available to support all clients at all times.

STANDARDS

Barton products are generally manufactured in accordance with the relevant British Standards. Details of particular standards are given below:

Product	British and European (Euro Norme) Standards
Rigid Steel Conduit	BS 4568 part 1 BS EN 50086-1:1994 BS EN 50086-2:1996 BS 31 BS EN 61386 part 21
Conduit Fittings & Accessories	BS EN 50086-1:1994 BS EN 50086-2:1996 BS 31
Adaptable Boxes	BS 4568 part 2
Flexible Conduit	BS EN 50086-2:1996 BS EN 61386 part 23
Switch and Socket Boxes	BS 4662
Trunking	BS 4678

Barton Engineering operations are subject to the Liberty Precision Tubes continuing assessment programme by BSI Assurance UK which confirm compliance with ISO 9001:2008 certificate no. F5650604



About Liberty House Group



Liberty House Group is an international business, specialising in metals trading as well as the manufacture and distribution of steel and advanced engineering products. Operating from four strategically positioned financial hubs in London, Dubai, Singapore and Hong Kong, the Group has sites in Europe, Africa, the Far and Middle East, Australia and North America. With a network of offices spread across 30 countries around the world, its current turnover is approximately \$4.3 billion and it employs circa 3,000 people globally.

Liberty House Group has two main operating arms – Liberty Commodities and Liberty Industries.

Liberty Commodities (LCG), part of the Liberty House Group, is a comprehensive product and services provider to the global steel and metal industries. The business delivers innovative trade and supply chain solutions, including financing options to its clients through a global network developed over a quarter of a century.

Liberty Industries Group (LIG) is an integrated steel manufacturer and distributor, with processes ranging from the production of liquid steel to value added advanced engineering products. Divided further into Liberty Steel Group (LSG) and Liberty Engineering Group (LEG), the division has sites in the United Kingdom, Africa and India, and employs circa 1,500 people. Its global steel

production capacity exceeds 4 million tonnes per annum and its large and diverse product portfolio includes:

- Steel products such as hot rolled steel coil, steel long products, precision steel tube (both ERW and cold rolled), steel precision strip and steel wire;
- Steel distribution;
- Tubular solutions for a range of industries, such as automotive, agriculture, yellow goods, construction, and many others;
- Engineered products for the automotive industry, including OEMs, Tier 1, 2 & 3 suppliers;
- High performance solutions for the motorsport, aerospace and defence industries; and others.

	Pages
CONDUIT - STEEL	4 – 5
CONDUIT FITTINGS AND ACCESSORIES	6 – 15
ADAPTABLE BOXES	16
CONDUIT - FLEXIBLE	17
SWITCH AND SOCKET BOXES	18 – 19
TRUNKING	20 – 26
NOTES	28
NUMERICAL INDEX	29
HEALTH AND SAFETY AT WORK ACT	31
CONDITIONS OF TRADING	32

ALPHABETICAL INDEX

Description	Page
ADAPTORS	
Flexible Metallic Conduit, Brass	17
Imperial/Metric	9
Metric/Imperial	9
BENDS	
Inspection.....	12
Normal, Internal	12
BOXES	
Adaptable, Pressed Steel.....	16
Ceiling Rose, Shallow	8
Circular, Large	7
Circular, Small	6
Circular, Small, Special Deep	8
Circular, Small Extension	8
Looping In	9
BUSHES	
Brass, Male and Female.....	13
CLIPS	
Earthing, Copper.....	12
CONDUIT	
Flexible, Metallic.....	17
Steel	4 – 5
COUPLINGS	
Earthing.....	11
Flanged	11
Inspection.....	11
Solid	11
COVERS	
Ball and Socket, Earthed, Small.....	10
Ball and Socket, Earthed, Large	11
Dome, Female, Small.....	10
Dome, Female, Large	11
Hook – Dome, Small.....	10
Heavy, Small, Malleable	10
Heavy, Large, Malleable.....	10
Heavy, Small, Steel	10
Heavy, Large, Steel	10
Light, Small, Steel.....	10
Light, Large, Steel.....	10
CRAMPETS	
.....	14
DIES	
.....	5
DRAW-IN	
TAPE	
Steel	5
ELBOWS	
Channel inspection	12
Solid	12
GASKETS	
Rubber	15

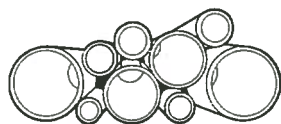
Description	Page
GLANDS	
Brass	13
GUIDES	
.....	5
HOOKS	
Female	11
Male.....	11
LOCKNUTS	
Circular, Milled edge.....	13
Heavy.....	13
Light	13
LOOPS	
Female	11
Male.....	11
NIPPLES	
Normal	11
300mm Long.....	11
ORDERING	
PROCEDURES	
.....	28
PLUGS	
Hexagon Head, Malleable.....	13
Slotted Head, Brass	13
REDUCER	
.....	13
RINGS	
Extension	12
Adaptor	12
SADDLES	
One-Way (Single)	14
Distance	14
Hospital.....	14
Spacer Bar	14
Clips (Half Saddle)	14
SCREWS	
Brass	14
Steel	14
STOCKS	
.....	5
STUDS	
Earth Terminal	14
SWITCH and	
SOCKET BOXES	
.....	18 – 19
TEES	
Channel, Inspection	12
Solid	12
TRUNKING	
Quick-fix.....	21 – 23
Lighting	24 – 25
Multi-compartment.....	26
WASHERS	
Lead	12
Neoprene	12
Serrated.....	12

Note: for numerical index refer to page 31

- Please Note:**
1. Pre-galvanised conduit does not meet the requirements of BS 4568.
It does not meet corrosion classifications defined in this standard.
 2. Binding materials used to make up bundles of Conduit are not intended to be used when lifting this product which should be handled only with approved slings.

HEAVY GAUGE CONDUIT WELDED - SCREWED

Manufactured in accordance with BS 31/BS 4568/BS 6053/BS 6099 (I.E.C. 614) where applicable. Each 3.75 metre length screwed both ends and complete with one solid coupling.



	External Diameter	No. of lengths per bundle	No. of bundles per lift	Metres per lift	Approx. weight per lift Tonnes
BS 4568/BS EN 50086/ BS EN 61386 Part 1 Class 4 finish HOT DIPPED GALVANISED INSIDE & OUTSIDE 3.75 metre lengths	20mm	8	50	1500	1.16
	25mm	8	40	1200	1.17
	32mm	4	41	615	0.80
BS 31 Class 4 finish HOT DIPPED GALVANISED INSIDE & OUTSIDE 3.75 metre lengths	1½"	4	21	315	0.54
	2"	4	21	315	0.85
PRE-GALVANISED INSIDE & OUTSIDE 3.75 metre lengths	20mm	8	50	1500	1.09
	25mm	8	40	1200	1.11
BS 4568/BS EN 50086/ BS EN 61386 Part 1 Class 2 finish BLACK ENAMELLED INSIDE & OUTSIDE 3.75 metre lengths	20mm	8	50	1500	1.16
	25mm	8	40	1200	1.17
	32mm	4	41	615	0.80
BS 31 Class 2 finish BLACK ENAMELLED INSIDE & OUTSIDE 3.75 metre lengths	1½"	4	21	315	0.54
	2"	4	21	315	0.85

Above conduit is packed and shipped in LIFTS (also known as Master Bundles). Each lift comprising the stated number of individual bundles measuring approximately 45-50 centimetres in diameter and 3.75 metres long. The weight varies according to size and finish of conduit but approximate weights are shown above.

Length of run Metres	CONDUIT DIAMETER, MM															
	16	20	25	32	16	20	25	32	16	20	25	32	16	20	25	32
	Straight				One bend				Two bends				Three bends			
1	Covered by Tables 1 and 2				188	303	543	947	177	286	514	900	158	256	463	818
1.5					182	294	528	923	167	270	487	857	143	233	422	750
2					177	286	514	900	158	256	463	818	130	213	388	692
2.5					171	278	500	878	150	244	442	783	120	196	358	643
3					167	270	487	857	143	233	422	750	111	182	333	600
3.5	179	290	521	911	162	263	475	837	136	222	404	720	103	169	311	563
4	177	286	514	900	158	256	463	818	130	213	388	692	97	159	292	529
4.5	174	282	507	889	154	250	452	800	125	204	373	667	91	149	275	500
5	171	278	500	878	150	244	442	783	120	196	358	643	86	141	260	474
6	167	270	487	857	143	233	422	750	111	182	333	600				
7	162	263	475	837	136	222	404	720	103	169	311	563				
8	158	256	463	818	130	213	388	692	97	159	292	529				
9	154	250	452	800	125	204	373	667	91	149	275	500				
10	150	244	442	783	120	196	358	643	86	141	260	474				

Table 4
Conduit factors
for runs
incorporating
bends

CABLE CAPACITIES OF CONDUIT

The following tables give guidance on the calculation of the number of single-core p.v.c insulated cables which can be located in various sizes of conduit.

The tables deal with two particular cases.

- (i) Single-core p.v.c. insulated cables in straight runs not exceeding 3 metres in length.
- (ii) Single-core p.v.c. insulated cables in straight runs exceeding 3 metres in length or in runs of any length with bends or sets.

STRAIGHT RUNS NOT EXCEEDING 3 METRES IN LENGTH.

For each type of cable being used obtain the cable factor from Table 1. Sum all the cable factors and compare with the conduit factors given in Table 2.

The conduit sizes which will accommodate the cables are those with a conduit factor equal to or greater than the sum of the cable factors.

Type of conductor	Conductor cross-sectional area mm ²	Factor
Solid	1	22
	1.5	27
	2.5	39
Stranded	1.5	31
	2.5	43
	4	58
	6	88
	10	146

These tables are based on the 17th edition of the I.E.E. Wiring Regulations Appendix 12.

Conduit dia mm	Factor
16	290
20	460
25	800
32	1400

Table 1 Cable factors for short straight runs

Table 2 Conduit factors for short straight runs

STRAIGHT RUNS EXCEEDING 3 METRES IN LENGTH OR RUNS OF ANY LENGTH INCORPORATING BENDS OR SETS.

For each type of cable being used obtain the cable factor from Table 3.

Sum all the cable factors and compare with the conduit factor given in Table 4 for the relevant length of run and the number of bends and sets in that run.

The conduit sizes which will accommodate the cables are those with a conduit factor equal to or greater than the sum of the cable factors.

Table 3 Cable factors for long straight runs, or runs incorporating bends

Type of conductor	Conductor cross-sectional area mm ²	Factor
Solid or Stranded	1	16
	1.5	22
	2.5	30
	4	43
	6	58
	10	105

SPACING OF SUPPORTS FOR CONDUITS

The following table gives guidance on the spacing of supports for conduit.

Nominal size of conduit mm	Maximum distance between supports	
	Horizontal runs m	Vertical runs m
16mm	0.75	1.0
17mm – 25mm	1.75	2.0
26mm – 40mm	2.0	2.25
Over 40mm	2.25	2.5

This table is based on the 17th edition of the I.E.E. Wiring Regulations Appendix 11.

These tables are for guidance only and account needs to be taken of future wiring needs.

STOCKS, DIES, GUIDES

Complete set Comprising Stock, Dies and Guides.

To screw conduit dia. of 16mm up to 2".

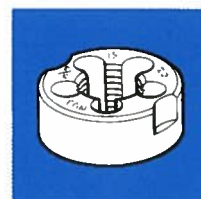
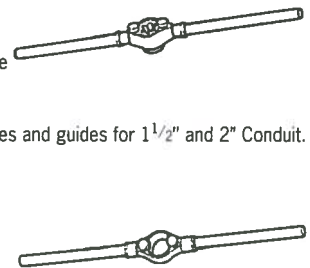
SD2025 Complete set comprising stock, dies and guides for 20mm and 25mm Conduit. Overall Dia. of Dies 42mm.

SD32 Complete set comprising stock, die and guide for 32mm Conduit. Overall Dia. of Die 63.5mm

SD3850 Complete set comprising stock, dies and guides for 1½" and 2" Conduit. Overall Dia. of Dies 3½".

Stock - Spare

ST42 Stock Overall Dia. of Die 42mm
ST64 Stock Overall Dia. of Die 63.5mm



Die - Spare Steel

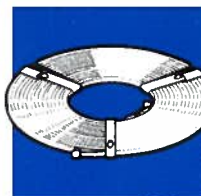
		Overall Dia. of Die
DE16	16mm Die	42mm
DE20	20mm Die	42mm
DE25	25mm Die	42mm
DE32	32mm Die	63.5mm
DE38	1½" Die	3½"
DE50	2" Die	3½"



Guide - Spare Steel

		Overall Dia. of Die
GE16	16mm Guide	42mm
GE20	20mm Guide	42mm
GE25	25mm Guide	42mm
GE32	32mm Guide	63.5mm
GE38	1½" Guide	3½"
GE50	2" Guide	3½"

DRAW-IN TAPES



Draw-in Tape - Steel

No. DT20
Size 20 Metres x 3.2mm

No. DT30
Size 30 Metres x 3.2mm

BOXES – CIRCULAR, SMALL

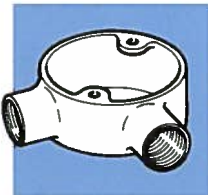
Material: Malleable Iron
 Finishes: Black Enamel, Galvanised
 60.3mm Internal Diameter
 20mm Boxes Minimum 25mm Deep
 25mm Boxes Minimum 28mm Deep
 Tapped M4 at 50.8mm centres.
 With tapped hole in base for earthing screw.
 Supplied without covers or fixing screws unless ordered.

**Terminal No. M181**

Size	20mm	25mm
Standard Pack Qty	10	10

**Through No. M182**

Size	20mm	25mm
Standard Pack Qty	10	10

**Angle No. M183**

Size	20mm	25mm
Standard Pack Qty	10	10

**Tee No. M184**

Size	20mm	25mm
Standard Pack Qty	10	10

**Intersection No. M185**

Size	20mm	25mm
Standard Pack Qty	10	10

**Back Outlet No. M186**

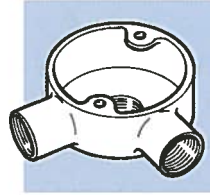
Size	20mm	25mm
Standard Pack Qty	10	10

**Terminal and Back Outlet No. M187**

Size	20mm	25mm
Standard Pack Qty	10	10

**Through and Back Outlet No. M188**

Size	20mm	25mm
Standard Pack Qty	10	10

**Angle and Back Outlet No. M189**

Size	20mm	25mm
Standard Pack Qty	10	10

**Tee and Back Outlet No. M190**

Size	20mm	25mm
Standard Pack Qty	10	10

**Intersection and Back Outlet No. M191**

Size	20mm	25mm
Standard Pack Qty	10	10

**Tangent Through No. M192**

Size	20mm	25mm
Standard Pack Qty	10	10

**Tangent Angle No. M193**

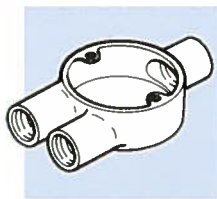
Size	20mm	25mm
Standard Pack Qty	10	10

**Tangent Tee No. M194**

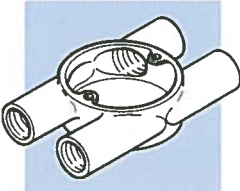
Size	20mm	25mm
Standard Pack Qty	10	10

**Branch Two Way (U) No. M195**

Size	20mm	25mm
Standard Pack Qty	10	10

**Branch Three Way (Y) No. M196**

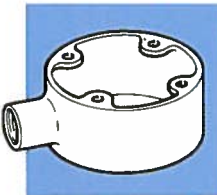
Size 20mm 25mm
Standard Pack Qty 10 10

**Twin Through Way (H) No. M197**

Size 20mm 25mm
Standard Pack Qty 10 10

BOXES - CIRCULAR, LARGE

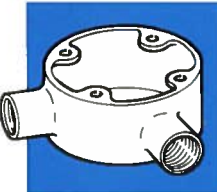
Material: Malleable Iron
Finishes: Black Enamel, Galvanised
81mm Internal Diameter,
20mm and 25mm Boxes Minimum 35mm Deep.
32mm Box Minimum 38mm Deep.
1½" Box Minimum 44mm Deep.
2" Box Minimum 57mm Deep.
Tapped M4 at 71.5mm Centres.
With tapped hole in base for earthing screw.
Supplied without covers or fixing screws unless ordered.

**Terminal No. M211**

Size 20mm 25mm 32mm
Standard Pack Qty 5 5 5
Size 1½" and 2" are available on special request only

**Through No. M212**

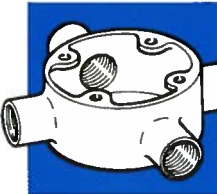
Size 20mm 25mm 32mm
Standard Pack Qty 5 5 5
Size 1½" and 2" are available on special request only

**Angle No. M213**

Size 20mm 25mm 32mm
Standard Pack Qty 5 5 5
Size 1½" and 2" are available on special request only

**Tee No. M214**

Size 20mm 25mm 32mm
Standard Pack Qty 5 5 5
Size 1½" and 2" are available on special request only

**Intersection No. M215**

Size 20mm 25mm 32mm
Standard Pack Qty 5 5 5
Size 1½" and 2" are available on special request only

**Back Outlet No. M216**

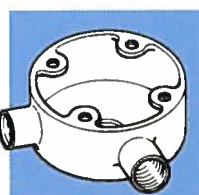
Size 20mm
Standard Pack Qty 5

**Terminal and Back Outlet No. M217**

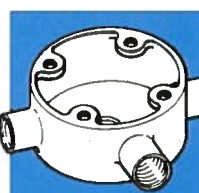
Size 20mm
Standard Pack Qty 5

**Through and Back Outlet No. M218**

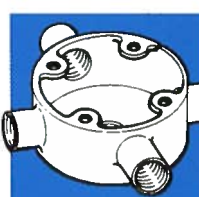
Size 20mm
Standard Pack Qty 5

**Angle and Back Outlet No. M219**

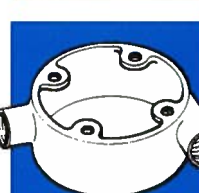
Size 20mm
Standard Pack Qty 5

**Tee and Back Outlet No. M220**

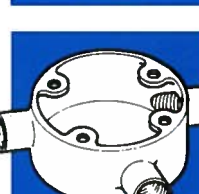
Size 20mm
Standard Pack Qty 5

**Intersection and Back Outlet No. M221**

Size 20mm
Standard Pack Qty 5

**Tangent Angle No. M222**

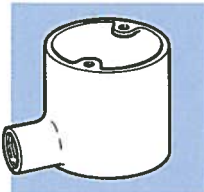
Size 20mm 25mm 32mm
Standard Pack Qty 5 5 5

**Tangent Tee No. M223**

Size 20mm 25mm 32mm
Standard Pack Qty 5 5 5

BOXES - CIRCULAR, SMALL SPECIAL DEEP

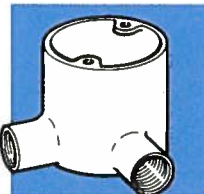
Material: Malleable Iron
 Finishes: Black Enamel, Galvanised
 60.3mm Internal Diameter x 62mm Deep. Tapped M4 at 50.8mm Centres. With tapped hole in base for earthing screw.
 Supplied without covers or fixing screws unless ordered.

**Terminal No. M231**

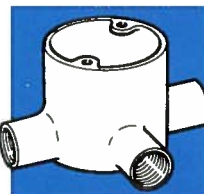
Size 20mm 25mm
 Standard Pack Qty 5 5
 Size 1 1/2" and 2" are available on special request only

**Through No. M232**

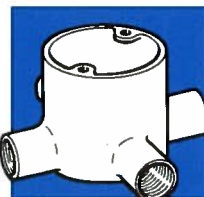
Size 20mm
 Standard Pack Qty 5

**Angle No. M233**

Size 20mm 25mm
 Standard Pack Qty 5 5

**Tee No. M234**

Size 20mm 25mm
 Standard Pack Qty 5 5

**Intersection No. M235**

Size 20mm 25mm
 Standard Pack Qty 5 5

BOXES - CIRCULAR, SMALL EXTENSION PATTERN

Material: Malleable Iron
 Finishes: Black Enamel, Galvanised
 60.3mm Internal Diameter
 20mm Boxes Minimum 25mm Deep
 25mm Boxes Minimum 28mm Deep
 Tapped M4 at 50.8mm centres.
 With tapped hole in base for earthing screw.
 Supplied without covers or fixing screws unless ordered.

**Terminal No. M241**

Size 20mm 25mm
 Standard Pack Qty 10 10

**Through No. M242**

Size 20mm 25mm
 Standard Pack Qty 10 10

**Angle No. M243**

Size 20mm 25mm
 Standard Pack Qty 10 10

**Tee No. M244**

Size 20mm 25mm
 Standard Pack Qty 10 10

**Intersection No. M245**

Size 20mm 25mm
 Standard Pack Qty 10 10

BOXES - CEILING ROSE

Material: Malleable Iron
 Finishes: Black Enamel, Galvanised
 With tapped hole in base for earthing screw. Internal Diameter minimum 55mm and Minimum Depth 12.5mm. Tapped M4 at 50.8mm Centres.

**Shallow No. M361**

Size 20mm
 Standard Pack Qty 25

Note this is a special modified version of M186

BOXES - LOOPING IN

With tapped hole in base for earthing screw. 20mm clearance.



Medium, Steel No. R274

Material: Steel. Finishes: Black Enamel, Galvanised. With tapped hole in base for earthing screw. 1 Hole or 4 Knockouts. Size: 29mm Deep x 63.5mm Internal Diameter. Standard Pack Qty: 10



Medium, Malleable Iron No. M272

Material: Malleable Iron. Finishes: Black Enamel, Galvanised. With tapped hole in base for earthing screw. 1,2,3,4 Holes. Minimum 31mm Deep x 63.5mm Internal Diameter. Standard Pack Qty: 10

ADAPTORS

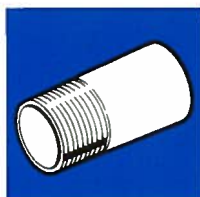
Material:
Finish:

Steel
Electro Zinc Plated



Imperial to Metric Adaptor No. R114

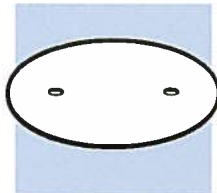
Size: $\frac{3}{4}$ " MALE to 20mm FEMALE
Standard Pack Qty: 100
Size: 1" MALE to 25mm FEMALE
Standard Pack Qty: 50



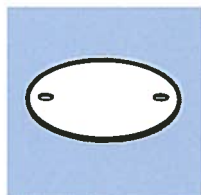
Metric to Imperial Adaptor No. R115

Size: 20mm MALE to $\frac{3}{4}$ " FEMALE
Standard Pack Qty: 100
Size: 25mm MALE to 1" FEMALE
Standard Pack Qty: 50

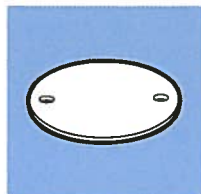
COVERS - CIRCULAR SMALL



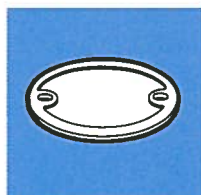
**Cover, Light, Overlapping, Loose,
No Screws No. R280**
Material: Steel
Finishes: Black Enamel, Galvanised
Standard Pack Qty: 50



**Cover, Light, Loose, No Screws.
No. R281**
Material: Steel
Finishes: Black Enamel, Galvanised
Standard Pack Qty: 100



**Cover, Heavy, Loose, No Screws
No. R282**
Material: Steel
Finishes: Black Enamel, Galvanised
Standard Pack Qty: 50



**Cover, Heavy, Loose, No Screws
No. M283**
Material: Malleable Iron
Finishes: Black Enamel, Galvanised
Standard Pack Qty: 50



**Cover, Ball and Socket, Earthed
No. M286**
Material: Malleable Iron with copper earthwire
Finishes: Black Enamel, Galvanised
Size 20mm 25mm
Standard Pack Qty: 25 25



**Cover, Hook Dome, Combined
No. R287**
Material: Steel
Finishes: Black Enamel, Galvanised
Standard Pack Qty: 25



**Cover, Female Dome
No. M288**
Material: Malleable Iron
Finishes: Black Enamel, Galvanised
Size 20mm 25mm
Standard Pack Qty 25 25

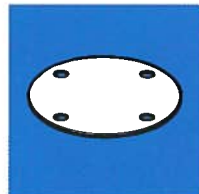


**Cover, Female Dome
No. R289**
Material: Steel
Finishes: Black Enamel, Galvanised
Size 20mm 25mm
Standard Pack Qty 25 25



**Cover, Ball and Socket, Earthed
No. R290**
Material: Steel
Finishes: Black Enamel, Galvanised
Size 20mm
Standard Pack Qty 25

COVERS - CIRCULAR LARGE



**Cover, Light, Loose, No Screws
No. R381**
Material: Steel
Finishes: Black Enamel, Galvanised
Standard Pack Qty: 50

HOOKS AND LOOPS

**Loop, Male No. M501**

Material: Malleable Iron

Finishes: Black Enamel, Galvanised

Size 20mm 25mm

Standard Pack Qty 50 50

**Hook, Male No. M502**

Material: Malleable Iron

Finishes: Black Enamel, Galvanised

Size 20mm 25mm

Standard Pack Qty 50 50

**Loop, Female No. M503**

Material: Malleable Iron

Finishes: Black Enamel, Galvanised

Size 20mm 25mm

Standard Pack Qty 50 50

**Hook, Female No. M504**

Material: Malleable Iron

Finishes: Black Enamel, Galvanised

Size 20mm 25mm

Standard Pack Qty 50 50

COUPLINGS

**Coupling, Solid No. R101**

Material: Steel

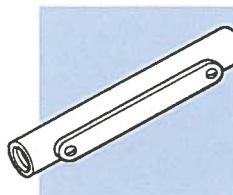
Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 100 50 50

Size 1 1/2" 2"

Standard Pack Qty 25 20

**Coupling, Inspection No. M103**

Material: Malleable Iron Body, 16mm – 32mm,

Steel Cover, 1 1/2" – 2" Malleable Iron Cover

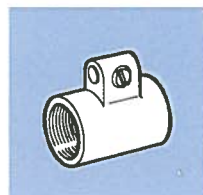
Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 25 10 5

Size 1 1/2" 2"

Standard Pack Qty 5 1

**Coupling, Earthing No. M105**

Material: Malleable Iron

Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 50 50 25

Size 1 1/2" 2"

Standard Pack Qty 25 10

**Nipple, Normal No. F107**

Material: Steel

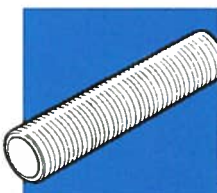
Finishes: Self Colour, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 50

Size 1 1/2" 2"

Standard Pack Qty 50 25

**Nipple, 300mm Long No. F109**

Material: Steel

Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 10 10 10

Size 1 1/2" 2"

Standard Pack Qty 10 5

**Coupling, Flanged, No. M110/M111**

Material: Malleable Iron

Complete with washer and brass bush

N.B. – Neoprene washers effect a greater degree of protection from the ingress of dust and/or liquids.

Finishes: Black Enamel, Galvanised

M110 (lead washer),

M111 (Neoprene washer)

Size 20mm 25mm 32mm

Standard Pack Qty 50 50 25

Size 1 1/2"

Standard Pack Qty 25

ELBOWS

**Elbow, Solid No. M121**

Material: Malleable Iron

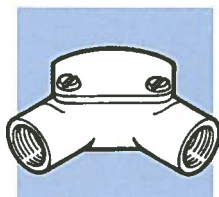
Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 25 25 10

Size 1½" 2"

are available on request only

**Elbow, Channel Inspection, No. M123**

Material: Malleable Iron, 20mm – 32mm

Steel Cover 1½" – 2" Malleable Iron Cover

Finishes: Black Enamel, Galvanised

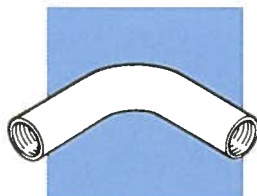
Size 20mm 25mm 32mm

Standard Pack Qty 25 25 10

Size 1½" 2"

are available on request only

BENDS

**Bends, Normal, Internal Thread****No. R141**

Material: Steel

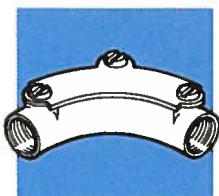
Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 25 10 5

Size 1½" 2"

are available on request only

**Bend, Inspection No. M145**

Material: Malleable Iron, 20mm – 32mm

Steel Cover 1½" – 2" Malleable Iron Cover

Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 25 10 5

Size 1½" 2"

are available on request only

WASHERS

**Lead No. F112****Neoprene No. F113**

Size 20mm 25mm 32mm

Standard Pack Qty 50 50 25

Size 1½"

Standard Pack Qty 25

**Serrated No. F116**

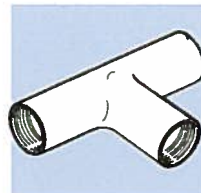
Material: Steel

Finishes: Self Colour, Zinc Plated

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 100

TEES

**Tee, Solid No. M131**

Material: Malleable Iron

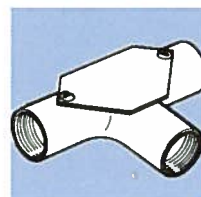
Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 25 25 10

Size 1½" 2"

are available on request only

**Tee, Channel Inspection, No. M133**

Material: Malleable Iron,

20mm – 32mm Steel Cover

1½" – 2" Malleable Iron Cover

Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 25 20 10

Size 1½" 2"

are available on request only

RINGS

**Ring, Adaptor No. M370**

Material: Malleable Iron

Finishes: Black Enamel, Galvanised

Standard Pack Qty: 100

**Ring, Extension No. R294**

Material: Steel

Finishes: Black Enamel, Galvanised

Size 6mm 10mm 13mm

Standard Pack Qty 100 50 50

Size 16mm 19mm 25mm

Standard Pack Qty 25 25 25

Size 32mm 38mm 50mm

Standard Pack Qty 10 10 10

**Clip, Earthing No. F506**

Material: Copper

Finish: Self Colour

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 50

Size 1½" 2"

Standard Pack Qty 50 50

BUSHES

**Bush, Short Male No. F531**

Material: Brass

Finish: Self Colour

Size 20mm 25mm 32mm

Standard Pack Qty 100 50 50

Size 1½" 2"

Standard Pack Qty 50 25

**Bush, Long Male No. F532**

Material: Brass

Finish: Self Colour

Size 20mm 25mm 32mm

Standard Pack Qty 100 50 50

Size 1½" 2"

Standard Pack Qty 25 25

**Bush, Female No. F534**

Material: Brass

Finish: Self Colour

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 100

Size 1½" 2"

Standard Pack Qty 100 50

PLUGS AND GLANDS

**Plug, Hexagon Head, No. M527**

Material: Malleable Iron

Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 100

Size 1½" 2"

Standard Pack Qty 50 25

**Plug, Slotted Head No. F535**

Material: Brass

Finishes: Self Colour

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 100

Size 1½" 2"

Standard Pack Qty 100 50

**Gland for T.R.S. or similar cable****No. F538**

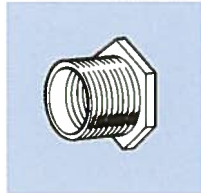
Material: Brass

Finishes: Self Colour

Size 20mm 25mm

Standard Pack Qty 100 100

REDUCERS

**Reducer No. M471**

Material: Malleable Iron

Finishes: Black Enamel, Galvanised

Size 20 x 16mm 25 x 16mm

St'd Pack Qty 100 100

25 x 20mm 32 x 20mm

100 50

32 x 25mm 1½" x 20mm

50 50

1¼" x 25mm 1½" x 20mm

50 50

1½" x 25mm 1½" x 32mm

50 50

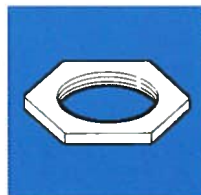
2" x 25mm 2" x 32mm

25 25

2" x 1½"

25

LOCKNUTS

**Locknut, Hexagon Light No. R507**

Material: Steel

Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 100

Size 1½" 2"

Standard Pack Qty 50 25

**Locknut, Hexagon Heavy No. M508**

Material: Malleable Iron

Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 100

Size 1½" 2"

Standard Pack Qty 50 50

**Locknut, Circular, Milled Edge****No. F505**

Material: Steel

Finishes: Self Colour, Zinc Plated

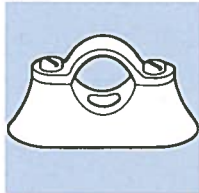
Size 20mm 25mm 32mm

Standard Pack Qty 100 100 100

Size 1½" 2"

Standard Pack Qty 50 25

SADDLES

**Saddle, Hospital No. M362**

Material: Malleable Iron Base, with Steel Top

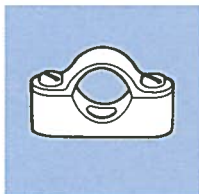
Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 50 25 25

Size 1 1/2" 2"

Standard Pack Qty 25 10

**Saddle, Distance No. M363**

Material: Iron Base with Steel Top

Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 50 25 25

Size 1 1/2" 2"

Standard Pack Qty 25 10

**Saddle, Spacer Bar, One Way****No. R431**

Material: Steel

Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 50

Size 1 1/2" 2"

Standard Pack Qty 50 25

**Clip (Half Saddle) No. F441**

Material: Steel

Finishes: Black Enamel, Galvanised

Size 20mm 25mm

Standard Pack Qty 100 100

Size 32mm

Standard Pack Qty 100

**Saddle, 1 Way (Single) No. R451**

Material: Steel

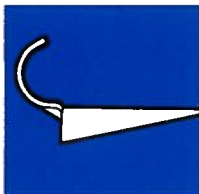
Finishes: Black Enamel, Galvanised

Size 20mm 25mm 32mm

Standard Pack Qty 100 100 100

Size 1 1/2" 2"

Standard Pack Qty 100 50

**Crampet, Steel No. F461**

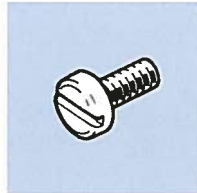
Material: Steel

Finishes: Black Enamel, Galvanised

Size 20mm 25mm

Standard Pack Qty 100 100

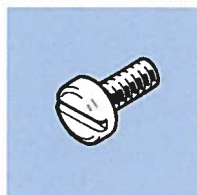
SCREWS

**Brass, M4 Pan Head No. F645**

Length: 6mm 10mm 12mm 16mm

20mm 25mm

Standard Pack Qty: 100

**Brass, M3.5 Pan Head No. F646**

Length: 6mm 10mm 12mm 16mm

20mm 25mm

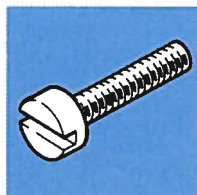
Standard Pack Qty: 100

**Brass, M3.5 Raised Countersunk****No. F647**

Length: 6mm 10mm 12mm 16mm

20mm 25mm

Standard Pack Qty: 100

**Brass, M3.5 Cheese Head No. F648**

Length: 6mm 10mm 12mm 16mm

20mm 25mm

Standard Pack Qty: 100

**Brass, M4 Earth Terminal Studs****No. F657**

Standard Pack Qty: 100

**Screw - Steel, Bright Zinc Plated.****M4 Pan Head No. F645**

Length: 5mm 6mm

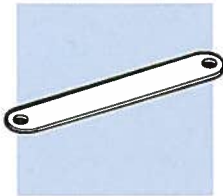
Standard Pack Qty: 100

**Screw - Steel, Bright Zinc Plated.****M3.5 Pan Head No. F646**

Length: 5mm 6mm

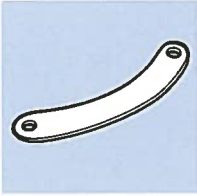
Standard Pack Qty: 100

GASKETS

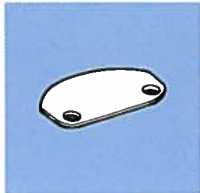


**Rubber Gasket for Coupling,
Inspection No. F401**
Size 20mm 25mm 32mm
Size 1 1/2" 2"

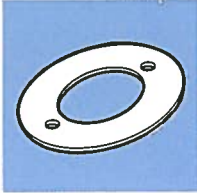
NO STANDARD PACK – ORDER AS REQUIRED



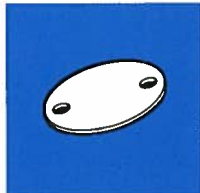
**Rubber Gasket for Bend,
Inspection No. F408**
Size 20mm 25mm 32mm
Size 1 1/2" 2"



**Rubber Gasket for Elbow,
Channel Inspection No. F402**
Size 20mm 25mm 32mm
Size 1 1/2" 2"



**Rubber Gasket for Box,
Small Circular No. F409**

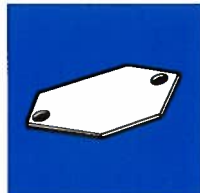


**Rubber Gasket for Elbow,
Circular Inspection No. F403**



**Rubber Gasket for Box,
Large Circular No. F410**

Rubber Gaskets also available for all sizes of
Adaptable Boxes **No. F415**



**Rubber Gasket for Tee,
Channel Inspection No. F405**
Size 20mm 25mm 32mm
Size 1 1/2" 2"

Barton Adaptable Boxes are manufactured from steel and are available with plain sides or knock-outs.

The standard finishes are Black Enamel and Hot Dipped Galvanised.

Where boxes are supplied with knock-outs the number and size are as follows:

Width of side	Number of K.O.'s in each side	Size of K.O.
3"	2	20mm
4"	3	20mm
6"	4	20mm
9"	6	20mm
12"	6	20mm

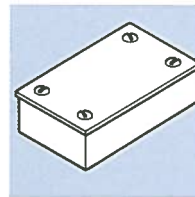
Flanged lids are fitted as standard to all boxes and are secured by M5 x 8mm mushroom head screws.

Boxes can be supplied to order with overlapping flat lids at an extra charge.

Rubber gaskets are available and supplied to order at an extra charge.

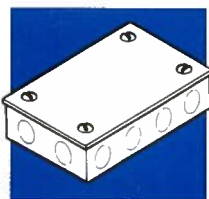
The complete range is manufactured in accordance with BS 4568 Part 2.

A range of Pre-Galvanised Adaptable Boxes are also available on request.



**Adaptable Boxes
Plain No. R261**

Size		Pack Qty
mm	Inches	
75 x 75 x 37.5	3 x 3 x 1 1/2	10
75 x 75 x 50	3 x 3 x 2	10
75 x 75 x 75	3 x 3 x 3	6
100 x 75 x 37.5	4 x 3 x 1 1/2	10
100 x 75 x 50	4 x 3 x 2	10
100 x 100 x 37.5	4 x 4 x 1 1/2	10
100 x 100 x 50	4 x 4 x 2	10
100 x 100 x 75	4 x 4 x 3	6
100 x 100 x 100	4 x 4 x 4	6
150 x 75 x 37.5	6 x 3 x 1 1/2	6
150 x 75 x 50	6 x 3 x 2	6
150 x 75 x 75	6 x 3 x 3	6
150 x 100 x 37.5	6 x 4 x 1 1/2	6
150 x 100 x 50	6 x 4 x 2	6
150 x 100 x 75	6 x 4 x 3	6
150 x 150 x 37.5	6 x 6 x 1 1/2	6
150 x 150 x 50	6 x 6 x 2	6
150 x 150 x 75	6 x 6 x 3	4
150 x 150 x 100	6 x 6 x 4	2
150 x 150 x 150	6 x 6 x 7	2
200 x 150 x 150	8 x 6 x 2	6
200 x 200 x 100	8 x 8 x 4	2
200 x 200 x 150	8 x 8 x 6	2
225 x 75 x 37.5	9 x 3 x 1 1/2	6
225 x 75 x 50	9 x 3 x 2	6
225 x 75 x 75	9 x 3 x 3	6
225 x 100 x 75	9 x 4 x 3	4
225 x 150 x 37.5	9 x 6 x 1 1/2	4
225 x 150 x 50	9 x 6 x 2	4
225 x 150 x 75	9 x 6 x 3	4
225 x 150 x 100	9 x 6 x 4	2
225 x 225 x 50	9 x 9 x 2	2
225 x 225 x 75	9 x 9 x 3	2
225 x 225 x 100	9 x 9 x 4	1
225 x 225 x 150	9 x 9 x 6	1
300 x 150 x 50	12 x 6 x 2	2
300 x 150 x 75	12 x 6 x 3	2
300 x 150 x 100	12 x 6 x 4	2
300 x 225 x 50	12 x 9 x 2	2
300 x 225 x 75	12 x 9 x 3	1
300 x 225 x 100	12 x 9 x 4	1
300 x 300 x 37.5	12 x 12 x 1	2
300 x 300 x 50	12 x 12 x 2	2
300 x 300 x 75	12 x 12 x 3	1
300 x 300 x 100	12 x 12 x 4	1
300 x 300 x 150	12 x 12 x 6	1
400 x 300 x 150	16 x 12 x 6	1
450 x 450 x 150	18 x 18 x 6	1
600 x 600 x 150	24 x 24 x 6	1



**Adaptable Boxes
with Knock-outs No. R262**

REFER BARTON FLEXIBLE CATALOGUE FOR A COMPLETE RANGE OF FLEXIBLE CONDUITS AND FITTINGS

STANDARD FLEXIBLE METALLIC CONDUIT (UNPACKED)

Galvanised Steel – No. F562

Internal Diameter	16mm	20mm	25mm	
	32mm	40mm	50mm	63mm

P.V.C. COVERED FLEXIBLE METALLIC CONDUIT

Galvanized Steel PVC Covered NO. F582

Available as standard in black P.V.C. sheathed for added protection against ingress of dirt, moisture and greases.

A full range of fittings is also available.

SPACING OF SUPPORTS FOR CONDUITS

The following table gives guidance on the spacing of support for flexible conduit.

Nominal size of conduit	Maximum distance between supports	
	Horizontal runs m	Vertical runs m
16mm and Under	0.3	0.5
17mm-25mm	0.4	0.6
26mm-40mm	0.6	0.8
Over 40	0.8	1.0



Adaptor, Flexible Tube, Conduit, Male Thread No. F536

Material: Brass.

Finishes: Self colour.

Conduit x Flexible Conduit I/D	Standard Pack Quantity
16mm x 16mm	100
20mm x 16mm	100
20mm x 20mm	50
25mm x 25mm	50
32mm x 32mm	25
1 1/2" x 40mm	20
2" x 50mm	10



Adaptor, Flexible Tube, Conduit, Female Thread No. F537

Material: Brass.

Finishes: Self colour.

Conduit x Flexible Conduit I/D	Standard Pack Quantity
20mm x 16mm	100
20mm x 20mm	50
25mm x 20mm	50
25mm x 25mm	50
32mm x 32mm	25
1 1/2" x 40mm	20
2" x 50mm	10

A comprehensive range of switch and socket boxes manufactured in four depths 16mm, 25mm, 35mm and 47mm and all available in one and two gang configurations. To facilitate the easy fitting of accessories into the boxes, they are designed with at least one adjustable lug.



Adjustable Lug

All Barton RE Series Switch and Socket Boxes include a unique Regulation Brass Earth Terminal into which several earth wires can be fitted from either the inside or outside of the box.



Regulation Brass Earth Terminal

Each box is produced with a specified number and size of knock outs which allow adequate cable entries for wiring purposes.

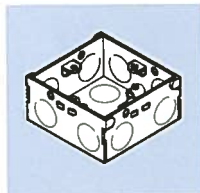
Nominal Dimensions:

One Gang – 72mm x 72mm

Two Gang – 132mm x 72mm

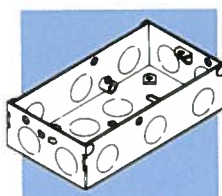
Material: Pre-coated galvanised steel

Barton switch and socket boxes are manufactured in accordance with BS 4662.



Switch and Socket Boxes
35mm deep No. BC82RE2025

Gang	Type of Entry	Fixing Lugs	Pack Qty.
One Gang	20 & 25mm KO's	3 fixed and 1 adjustable	10



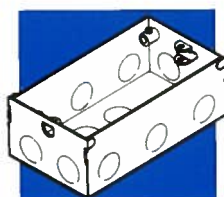
Switch and Socket Boxes
35mm deep No. BC92RE

Gang	Type of Entry	Fixing Lugs	Pack Qty.
Two Gang	20 & 25mm KO's	1 fixed and 1 adjustable	5



Switch and Socket Boxes
47mm deep No. BC14RE
 (For use with double thickness partitioning)

Gang	Type of Entry	Fixing Lugs	Pack Qty.
One Gang	20mm KO's	2 fixed and 2 adjustable	20



Switch and Socket Boxes
47mm deep No. BC22RE
 (For use with double thickness partitioning)

Gang	Type of Entry	Fixing Lugs	Pack Qty.
Two Gang	20 & 25mm KO's	1 fixed and 1 adjustable	10

THE BARTON CABLE TRUNKING RANGE

QUICK-FIX RANGE (QF)

This is the most popular range of trunking. It features a rapid and fool proof method for securing the lid, by simply twisting turnbuckles through 90 degrees. These lock the lid in place, providing full earth continuity between body and lid.

The range is manufactured from high quality galvanised steel as standard and is also available as an option with a coloured powder coating.

LIGHTING TRUNKING (LT)

The range of lighting trunking has a 50 x 50mm body section with either a white PVC or steel snap-in lid. Fittings are common to the Quick-Fix and Screw-Fix ranges, providing complete compatability between cable and lighting trunking.

The standard finish is high quality galvanised steel.

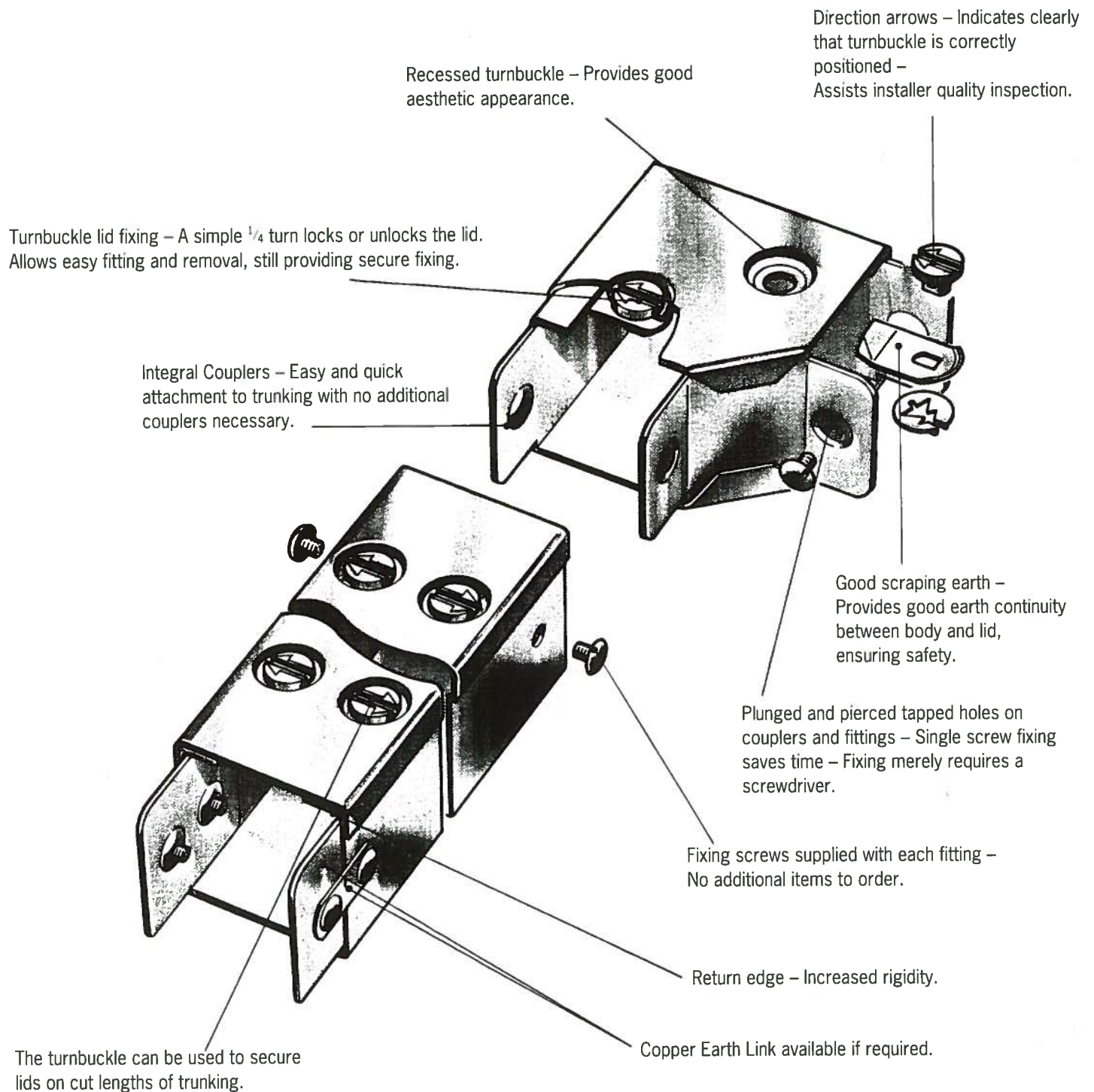
QUALITY

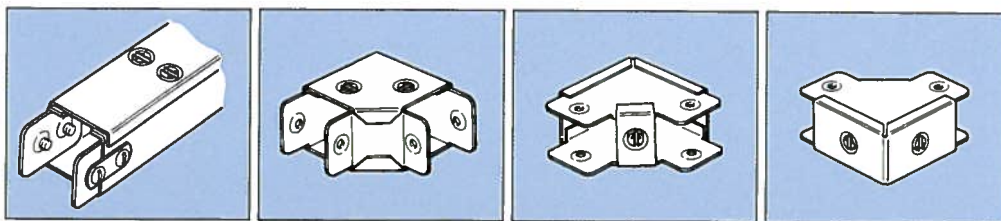
All galvanised steel used in the manufacture of cable trunking and fittings complies with BS EN 10142 (and BS 4678), ensuring a no-flake, no-fracture product.

MULTI COMPARTMENT TRUNKING

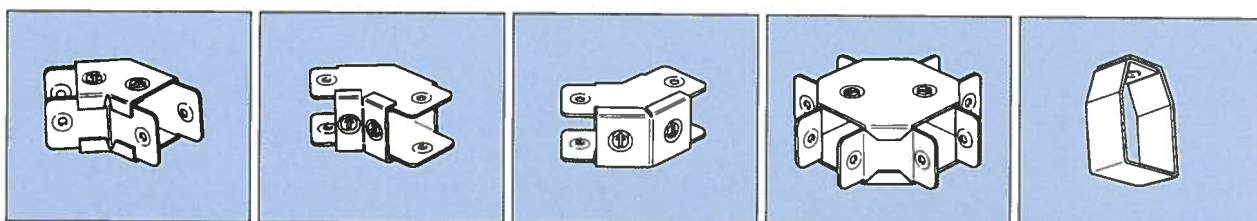
We manufacture Multi Compartment Trunking. Please see Page 28 for further information.

QUICK-FIX





Dimensions (mm)	CABLE TRUNKING (See note (1) below)	RIGHT ANGLE BEND - TOP LID	RIGHT ANGLE BEND - INSIDE LID	RIGHT ANGLE BEND - OUTSIDE LID
50 x 50	QF/22	QF/RABT 22	QF/RABI 22	QF/RABO 22
75 x 50	QF/32	QF/RABT 32	QF/RABI 32	QF/RABO 32
75 x 75	QF/33	QF/RABT 33	QF/RABI 33	QF/RABO 33
100 x 50	QF/42	QF/RABT 42	QF/RABI 42	QF/RABO 42
100 x 75	QF/43	QF/RABT 43	QF/RABI 43	QF/RABO 43
100 x 100	QF/44	QF/RABT 44	QF/RABI 44	QF/RABO 44
150 x 50	QF/62	QF/RABT 62	QF/RABI 62	QF/RABO 62
150 x 75	QF/63	QF/RABT 63	QF/RABI 63	QF/RABO 63
150 x 100	QF/64	QF/RABT 64	QF/RABI 64	QF/RABO 64
150 x 150	QF/66	QF/RABT 66	QF/RABI 66	QF/RABO 66
225 x 100	QF/94	QF/RABT 94	QF/RABI 94	QF/RABO 94

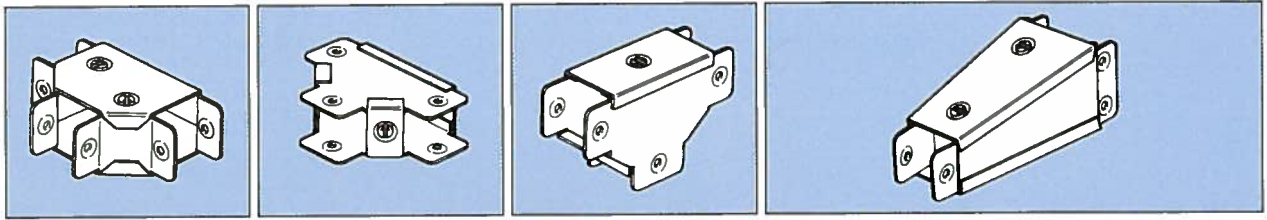


Dimensions (mm)	45 DEGREE BEND - TOP LID	45 DEGREE BEND - INSIDE LID	45 DEGREE BEND - OUTSIDE LID	4 WAY BOX	HANGER
50 x 50	QF/FFT 22	QF/FFI 22	QF/FFO 22	QF/FW 22	QF/H 22
75 x 50	QF/FFT 32	QF/FFI 32	QF/FFO 32	QF/FW 32	QF/H 32
75 x 75	QF/FFT 33	QF/FFI 33	QF/FFO 33	QF/FW 33	QF/H 33
100 x 50	QF/FFT 42	QF/FFI 42	QF/FFO 42	QF/FW 42	QF/H 42
100 x 75	QF/FFT 43	QF/FFI 43	QF/FFO 43	QF/FW 43	QF/H 43
100 x 100	QF/FFT 44	QF/FFI 44	QF/FFO 44	QF/FW 44	QF/H 44
150 x 50	QF/FFT 62	QF/FFI 62	QF/FFO 62	QF/FW 62	QF/H 62
150 x 75	QF/FFT 63	QF/FFI 63	QF/FFO 63	QF/FW 63	QF/H 63
150 x 100	QF/FFT 64	QF/FFI 64	QF/FFO 64	QF/FW 64	QF/H 64
150 x 150	QF/FFT 66	QF/FFI 66	QF/FFO 66	QF/FW 66	QF/H 66
225 x 100	QF/FFT 94	QF/FFI 94	QF/FFO 94	QF/FW 94	QF/H 94

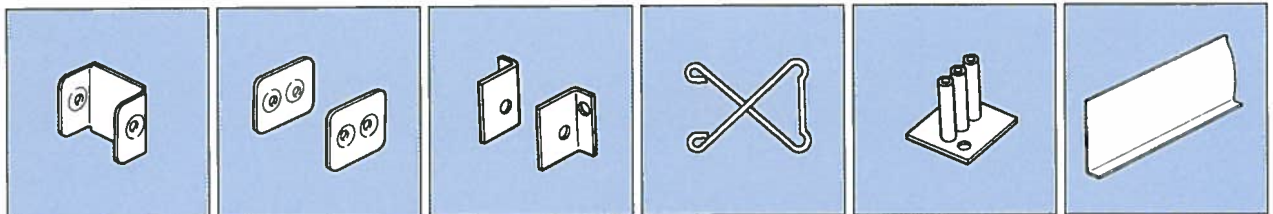
(1) Cable Trunking – 3m length complete with lid and couplers.

Product Code Example. QF/RABT 22. ie. Quick-Fix/Right Angle Bend Top 2" x 2".

All 50 x 50mm Fittings are compatible with 50 x 50mm Lighting Trunking.



Dimensions (mm)	TEE BEND - TOP LID	TEE BEND - INSIDE LID	TEE BEND - OUTSIDE LID	REDUCER	
50 x 50	QF/TT 22	QF/TI 22	QF/TO 22		
75 x 50	QF/TT 32	QF/TI 32	QF/TO 32	75 x 50 TO 50 x 50mm	QF/RED 32/22
75 x 75	QF/TT 33	QF/TI 33	QF/TO 33	75 x 75 TO 50 x 50mm	QF/RED 33/22
100 x 50	QF/TT 42	QF/TI 42	QF/TO 42	75 x 75 TO 75 x 50mm	QF/RED 33/32
100 x 75	QF/TT 43	QF/TI 43	QF/TO 43	100 x 50 TO 50 x 50mm	QF/RED 42/22
100 x 100	QF/TT 44	QF/TI 44	QF/TO 44	100 x 75 TO 50 x 50mm	QF/RED 43/22
150 x 50	QF/TT 62	QF/TI 62	QF/TO 62	100 x 100 TO 50 x 50mm	QF/RED 44/22
150 x 75	QF/TT 63	QF/TI 63	QF/TO 63	100 x 100 TO 75 x 75mm	QF/RED 44/33
150 x 100	QF/TT 64	QF/TI 64	QF/TO 64	150 x 100 TO 100 x 100mm	QF/RED 64/44
150 x 150	QF/TT 66	QF/TI 66	QF/TO 66	150 x 150 TO 100 x 100mm	QF/RED 66/44
225 x 100	QF/TT 94	QF/TI 94	QF/TO 94	150 x 150 TO 150 x 100mm	QF/RED 66/64



Dimensions (mm)	STOP END	COUPLER	FLANGED COUPLER	CABLE RETAINER	PIN RACK	LOOSE SEPARATOR 3m LENGTHS
50 x 50	QF/SE 22	QF/C 2	QF/FC 2	QF/CRS 2	QF/PR 22	QF/LS 2
75 x 50	QF/SE 32	QF/C 2	QF/FC 2	QF/CRS 3	QF/PR 32	QF/LS 2
75 x 75	QF/SE 33	QF/C 3	QF/FC 3	QF/CRS 3	QF/PR 33	QF/LS 3
100 x 50	QF/SE 42	QF/C 2	QF/FC 2	QF/CRS 4	QF/PR 42	QF/LS 2
100 x 75	QF/SE 43	QF/C 3	QF/FC 3	QF/CRS 4	QF/PR 43	QF/LS 3
100 x 100	QF/SE 44	QF/C 4	QF/FC 4	QF/CRS 4	QF/PR 44	QF/LS 4
150 x 50	QF/SE 62	QF/C 2	QF/FC 2	QF/CRS 6	QF/PR 62	QF/LS 2
150 x 75	QF/SE 63	QF/C 3	QF/FC 3	QF/CRS 6	QF/PR 63	QF/LS 3
150 x 100	QF/SE 64	QF/C 4	QF/FC 4	QF/CRS 6	QF/PR 64	QF/LS 4
150 x 150	QF/SE 66	QF/C 6	QF/FC 6	QF/CRS 6	QF/PR 66	QF/LS 6
225 x 100	QF/SE 94	QF/C 4	QF/FC 4	QF/CRS 9	QF/PR 94	QF/LS 4

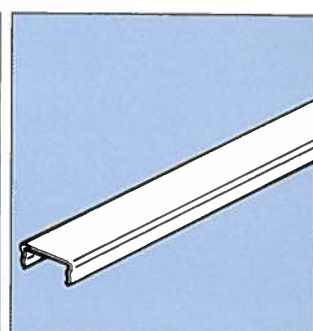
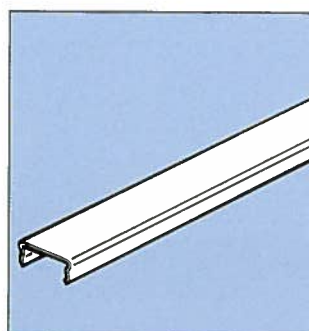
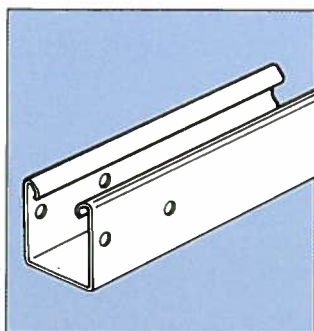
*2 Metre lengths available to order.

*Powder-coated finishes are available to suit customer requirements.

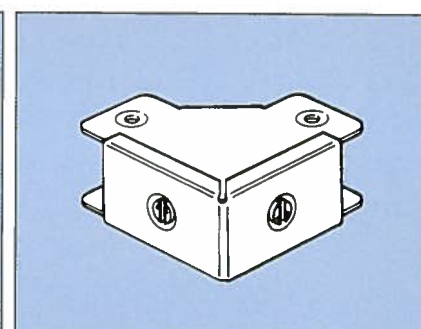
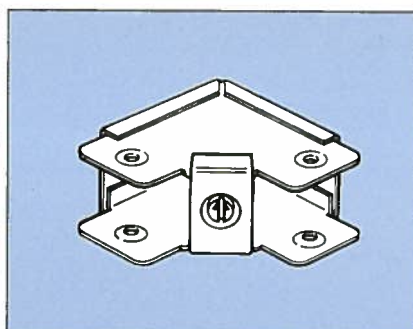
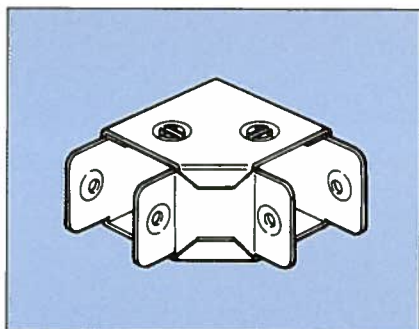
*Non gusset fittings and accessories are available.

Hangers are available with 11mm or 21mm holes.

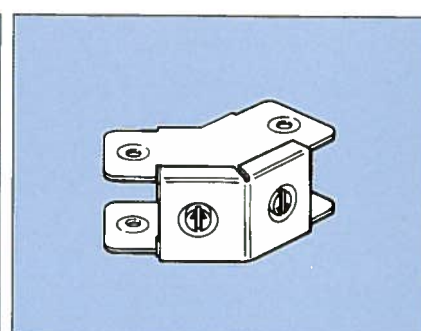
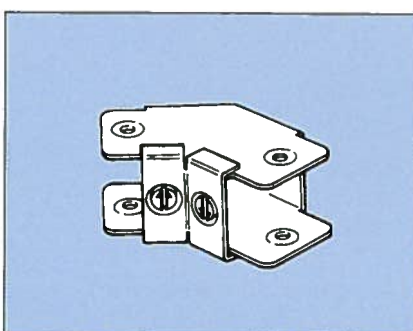
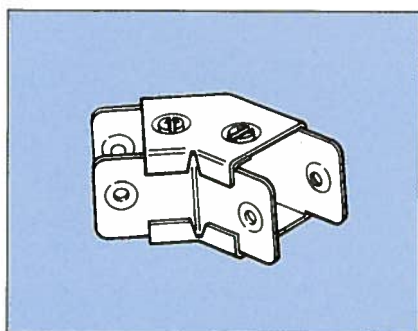
Manufactured from pre-galvanised sheet steel to BS EN 10142.



Dimensions mm	LIGHTING TRUNKING – BODY ONLY		METAL LID	P.V.C. LID
50 x 50	3.5M long LT22/3.5	5.0M long LT22/5.0	2M long	2M long
	4.5M long LT22/4.5	6.0M long LT22/6.0	LT2/ML	LT2/PVCL

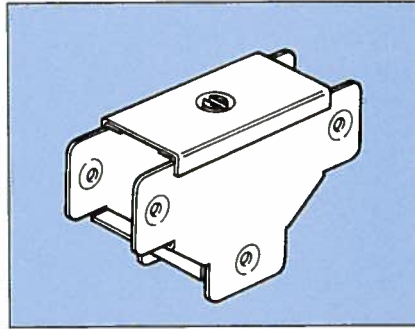
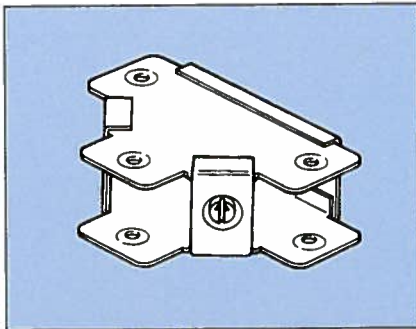
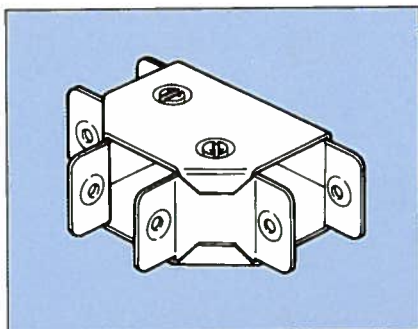


Dimensions mm	RIGHT ANGLE BEND – TOP LID	RIGHT ANGLE BEND – INSIDE LID	RIGHT ANGLE BEND – OUTSIDE LID
50 x 50	QF/RABT 22	QF/RABI 22	QF/RABO 22

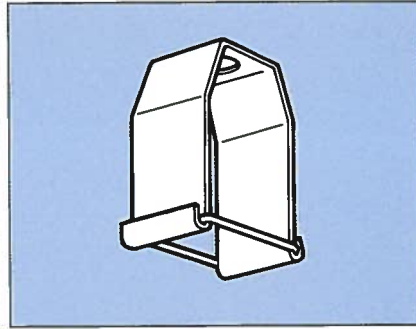
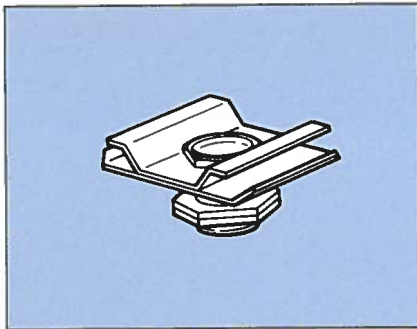
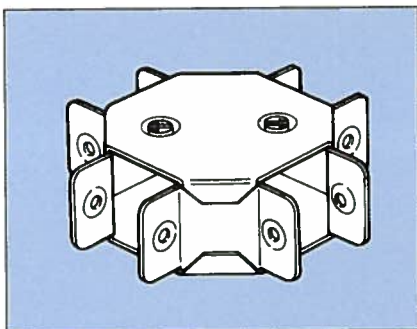


Dimensions mm	45 DEGREE BEND – TOP LID	45 DEGREE BEND – INSIDE LID	45 DEGREE BEND – OUTSIDE LID
50 x 50	QF/FFT 22	QF/FFI 22	QF/FFO 22

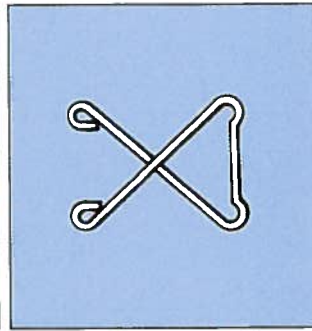
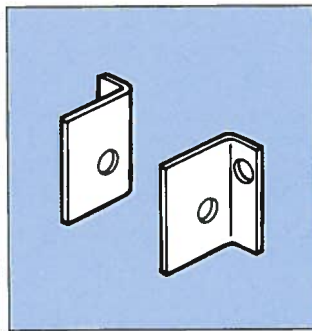
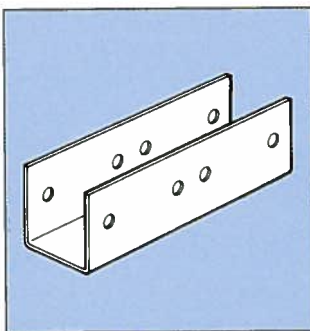
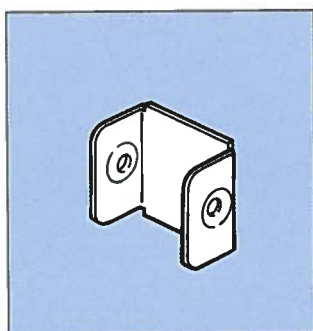
Product Code Example QF/RABT 22
i.e. Quick-Fix/Right Angle Bend Top 2" x 2".



Dimensions mm	TEE BEND - TOP LID	TEE BEND - INSIDE LID	TEE BEND - OUTSIDE LID
50 x 50	QF/TT 22	QF/TL 22	QF/TO 22



Dimensions mm	FOUR WAY BOX	SUSPENSION UNIT	HANGER
50 x 50	QF/FW 22	LT/SU 22	LT/H 22



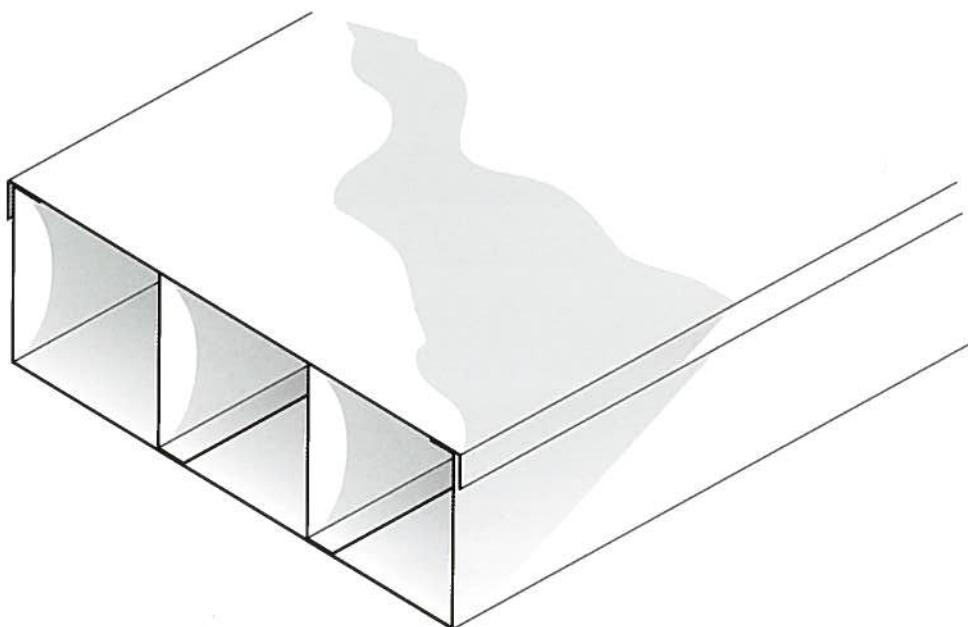
Dimensions mm	STOP END	COUPLER	FLANGED COUPLER	CABLE RETAINER
50 x 50	QF/SE 22	LT/SC 22 (Short) LT/LC 22 (Long)	QF/FC 22	QF/CRS 2

50 x 50mm Quick-Fix fittings are available for use with Lighting Trunking.

Hangers are available with 11mm or 21mm holes.

Manufactured from pre-galvanised sheet steel to BS EN 10142.

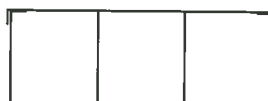
AVAILABLE IN QUICK-FIX



For 2 Compartment Trunking add QF/-----/2
to the listed numbers on the previous pages.



For 3 Compartment Trunking add QF/-----/3
to the listed numbers on the previous pages.



Multi Compartment Trunking is supplied with evenly spaced separators. Trunking with different sized compartments may be supplied subject to prior agreement.

Details must be confirmed in writing when ordering.

TRUNKING AND BENDS

"L" shaped separators are welded into position or can be supplied loose for fitting on site.

TEES AND INTERSECTIONS

Separators are supplied loose so that wiring can be laid into position. 50% of the wiring area is lost by the fitting of separators.

TRUNKING CAPACITY GUIDE

The following guide will help you select the correct size of trunking for the required number and size of cables in your installation. It has been prepared from Appendix 12 of the I.E.E. wiring regulations for Electrical Installations.

When cables are pulled into trunking, they experience drag from other cables and from the trunking itself. Using this guide to select the size of trunking for your cabling will ensure that an acceptable pulling force is required to install the cables, and that minimum damage to the insulation will occur. This is only a guide: and is designed for use with single core PVC insulated cables.

TO USE THIS GUIDE

- Calculate Capacity Unit by multiplying the number of cables by the Factor from table A.
- Use Capacity Unit to choose nearest size of trunking from table B.
- Remember that cables can cross over each other and that you may need space for future wiring. Consequently, select the next size up.

EXAMPLE			
NUMBER OF CABLES	CONDUCTOR CROSS SECTION MM ²	FACTOR (FROM A)	CAPACITY UNIT (FROM B)
50	1.5 stranded	8.1	405
40	2.5 stranded	11.4	456
20	6.0 stranded	22.9	458
Total			1319

From Table B, The Capacity Unit of 1319 falls between 50 x 50mm and 75 x 50mm hence choose 75 x 50mm trunking.

TABLE A		
TYPE OF CONDUCTOR	CONDUCTOR CROSS SECTION	FACTOR
Solid	1.5	7.1
	2.5	10.2
Stranded	1.5	8.1
	2.5	11.4
	4	15.2
	6	22.9
	10	36.3
	16	42.9
	25	62.6
	35	95

TABLE B	
CAPACITY UNIT	DIMENSION OF TRUNKING MM X MM
738	75 x 25
993	100 x 25
1037	50 x 50
1555	75 x 50
2091	100 x 50
2371	75 x 75
3162	150 x 50
3189	100 x 75
4252	100 x 100
4743	150 x 75
9697	150 x 150

Note: For sizes and types of cables not included in the above tables A and B, calculate total cross section of cables and select trunking size so that not more than 45% of trunking is filled.

ORDERING PROCEDURES

1. Please contact our sales office to discuss product availability, delivery times and any commercial queries.
2. All telephone orders must be confirmed in writing and be clearly marked 'Confirmation Order'. Please order using the catalogue number and specify the finish required.
3. Invoices will reflect current ongoing discounts unless there is a valid special price. In such cases, these prices will only be available if the written order refers to special prices and refers to the quotation reference number.
4. Orders for items not usually held in stock must be placed in writing and may not then be cancelled.
5. Please refer to our current price lists for details of minimum carriage paid order values and any minimum order charges.
6. All orders and transactions are subject to our Conditions of Sale which may be obtained upon request.

QUALITY ASSURANCE PROCEDURES

All aspects of the operations of Barton Engineering are governed by detailed Quality Assurance Procedures. These are subject to regular independent audit who provide independent certification to confirm that they comply with the requirements of the International Standard ISO 9001.

CE MARKING

It is our policy that Barton Engineering products will be CE marked to confirm that they comply with the relevant directives.

At the time of writing our best advice is that our ranges of Cable Protection Products will be classified within the Low Voltage Products Directive. We will therefore ensure that the CE marking is undertaken to comply with the necessary regulation.

No.	Page	No.	Page	No.	Page
CONDUIT FITTINGS AND ACCESSORIES					
R101	Couplings..... 11	R261	Adaptable Box, Plain 16	F535	Plug, Brass..... 13
M103	Couplings, Inspection..... 11	R262	Adaptable Box, Knock-Outs..... 16	F536	Adaptors, Brass, Flexible Conduit, Male 17
M105	Couplings, Earthing..... 11	M272	Loop in Box, Malleable Iron, Medium..... 9	F537	Adaptors, Brass, Flexible Conduit, Female 17
F107	Nipples, Normal..... 11	R274	Loop in Box, Steel, Medium 9	F538	Glands, Brass 13
F109	Nipples, 300mm..... 11	R280	Cover, Overlapping 10	F562	Flexible Conduit 17
M110	Flanged Couplers..... 11	R281	Cover, Light, Steel 10	F582	Flexible Conduit, PVC 17
M111	Flanged Couplers..... 11	R282	Cover, Heavy, Steel 10	F645	Screws 14
F112	Lead Washers..... 12	M283	Cover, Heavy, Malleable Iron..... 10	F646	Screws 14
F113	Neoprene Washers 12	M286	Cover, Ball and Socket, Malleable Iron 10	F647	Screws 14
R114	Adaptors, Imperial/Metric 9	R287	Cover, Hook and Dome, Steel..... 10	F648	Screws 14
R115	Adaptors, Metric/Imperial 9	M288	Cover, Female Dome, Malleable Iron 10	F657	Studs, Earthing, Terminal 14
F116	Serrated Washers 12	R289	Cover, Female Dome, Steel 10		
M121	Elbows, Solid..... 12	R290	Cover, Ball and Socket, Steel..... 10	SWITCH AND SOCKET BOXES	
M123	Elbows, Inspection, Channel..... 12	R294	Extension Ring 12	BC14RE47mm One Gang 19	
M131	Tees, Solid..... 12	M361	Box, Ceiling Rose..... 8	BC22RE47mm Two Gang 19	
M133	Tees, Inspection, Channel..... 12	M362	Saddle, Hospital 14	BC82RE35mm One Gang 19	
R141	Bends 12	M363	Saddle, Distance..... 14	BC92RE35mm Two Gang 19	
M145	Bends, Inspection 12	M370	Adaptor Ring 12		
M181	Terminal Box 6	R381	Large Cover, Light, Steel..... 10	TRUNKING	
M182	Through Box..... 6	R382	Large Cover, Heavy, Steel 10	QF/- - Quick-fix System 21 - 23	
M183	Angle Box..... 6	F401	Gasket, Inspection Coupler 15	LT/- - Lighting System 24 - 25	
M184	Tee Box 6	F402	Gasket, Channel Inspection Elbow .. 15	Multi Compartment Trunking 26	
M185	Intersection Box..... 6	F403	Gasket, Circular Inspection Elbow .. 15		
M186	Back Outlet 6	F405	Gasket, Channel Inspection Tee 15		
M187	Terminal and Back Outlet Box 6	F408	Gasket, Inspection Bend..... 15		
M188	Through and Back Outlet Box..... 6	F409	Gasket, Small Circular Box 15		
M189	Angle and Back Outlet Box..... 6	F410	Gasket, Large Circular Box 15		
M190	Tee and Back Outlet Box 6	F415	Gasket, All Adaptable Box sizes 15		
M191	Intersection and Back Outlet Box..... 6	R431	Saddle, Spacer Bar 14		
M192	Tangent Through Box 6	F441	Saddle, Half..... 14		
M193	Tangent Angle Box..... 6	R451	Saddle, Single 14		
M194	Tangent Tee Box 6	F461	Crampets 14		
M195	Branch Two Way Box 6	M471	Reducers 13		
M196	Branch Three Way..... 7	M501	Loop, Male 11		
M197	Twin Through Way Box 7	M502	Hook, Male..... 11		
M211	Large Terminal Box..... 7	M503	Loop, Female 11		
M212	Large Through Box 7	M504	Hook, Female 11		
M213	Large Angle Box 7	F505	Circular Locknuts, Milled Edge..... 13		
M214	Large Tee Box..... 7	F506	Copper Clip, Earthing 12		
M215	Large Intersection Box 7	R507	Locknut, Light, Steel 13		
M216	Large Back Outlet Box 7	M508	Locknut, Heavy, Malleable Iron..... 13		
M217	Large Terminal and Back Outlet Box. 7	M527	Plug, Malleable Iron..... 13		
M218	Large Through and Back Outlet Box . 7	F531	Bush, Brass, Short Male 13		
M219	Large Angle and Back Outlet Box 7	F532	Bush, Brass, Long Male..... 13		
M220	Large Tee and Back Outlet Box..... 7	F534	Bush, Brass, Female 13		
M221	Large Intersection and Back Outlet Box..... 7				
M222	Large Tangent Angle Box 7				
M223	Large Tangent Tee Box 7				
M231	Terminal Deep Box..... 8				
M232	Through Deep Box 8				
M233	Angle Deep Box 8				
M234	Tee Deep Box..... 8				
M235	Intersection Deep Box 8				
M241	Terminal Extension Box 8				
M242	Through Extension Box..... 8				
M243	Angle Extension Box..... 8				
M244	Tee Extension Box 8				
M245	Intersection Extension Box..... 8				