

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.

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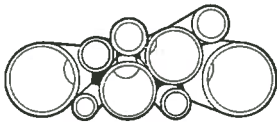
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Note: for numerical index refer to page 31

- 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				Four bends			
1					188	303	543	947	177	286	514	900	158	256	463	818	130	213	388	692
1.5					Covered by Tables 1 and 2															
2					Covered by Tables 1 and 2															
2.5					Covered by Tables 1 and 2															
3					Covered by Tables 1 and 2															
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.

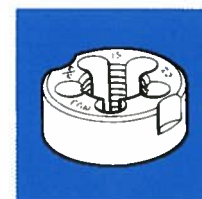
SD32 Complete set comprising stock, die and guide for 32mm Conduit. Overall Dia. of Die 63.5mm

SD3850 Complete set comprising stock, dies and guides for 1 1/2" and 2" Conduit. Overall Dia. of Dies 3 1/2".



Stock - Spare

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



Die - Spare Steel

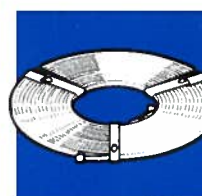
Die	Die	Overall Dia. of Die
DE16	16mm Die	42mm
DE20	20mm Die	42mm
DE25	25mm Die	42mm
DE32	32mm Die	63.5mm
DE38	1 1/2" Die	3 1/2"
DE50	2" Die	3 1/2"



Guide - Spare Steel

Guide	Guide	Overall Dia. of Die
GE16	16mm Guide	42mm
GE20	20mm Guide	42mm
GE25	25mm Guide	42mm
GE32	32mm Guide	63.5mm
GE38	1 1/2" Guide	3 1/2"
GE50	2" Guide	3 1/2"

DRAW-IN TAPES



Draw-in Tape - Steel

No. DT20
Size 20 Metres x 3.2mm

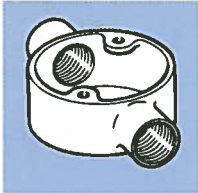
No. DT30
Size 30 Metres x 3.2mm

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.



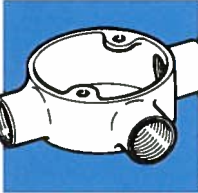
Terminal No. M181
 Size 20mm 25mm
 Standard Pack Qty 10 10



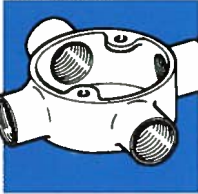
Through No. M182
 Size 20mm 25mm
 Standard Pack Qty 10 10



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



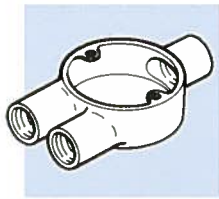
Tangent Angle No. M193
 Size 20mm 25mm
 Standard Pack Qty 10 10



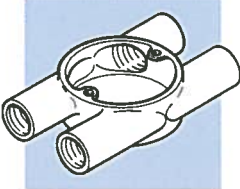
Tangent Tee No. M194
 Size 20mm 25mm
 Standard Pack Qty 10 10



Branch Two Way (U) No. M195
 Size 20mm 25mm
 Standard Pack Qty 10 10



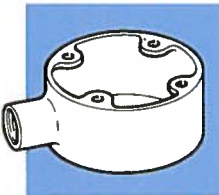
Branch Three Way (Y) No. M196
 Size 20mm 25mm
 Standard Pack Qty 10 10



Twin Through Way (H) No. M197
 Size 20mm 25mm
 Standard Pack Qty 10 10

BOXES - CIRCULAR, LARGE

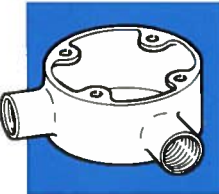
Material: Malleable Iron
 Finishes: Black Enamel, Galvanised
 81mm Internal Diameter,
 20mm and 25mm Boxes Minimum 35mm Deep.
 32mm Box Minimum 38mm Deep.
 1½" Box Minimum 44mm Deep.
 2" Box Minimum 57mm Deep.
 Tapped M4 at 71.5mm Centres.
 With tapped hole in base for earthing screw.
 Supplied without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



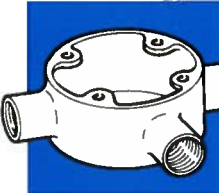
Terminal No. M211
 Size 20mm 25mm 32mm
 Standard Pack Qty 5 5 5
 Size 1½" and 2" are available on special request only



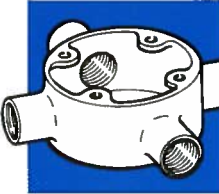
Through No. M212
 Size 20mm 25mm 32mm
 Standard Pack Qty 5 5 5
 Size 1½" and 2" are available on special request only



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



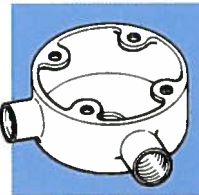
Back Outlet No. M216
 Size 20mm
 Standard Pack Qty 5



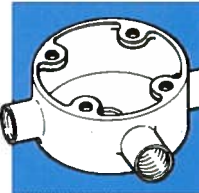
Terminal and Back Outlet No. M217
 Size 20mm
 Standard Pack Qty 5



Through and Back Outlet No. M218
 Size 20mm
 Standard Pack Qty 5



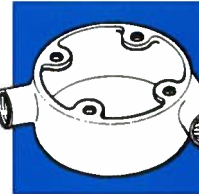
Angle and Back Outlet No. M219
 Size 20mm
 Standard Pack Qty 5



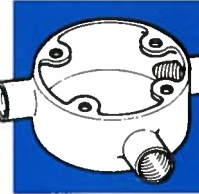
Tee and Back Outlet No. M220
 Size 20mm
 Standard Pack Qty 5



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

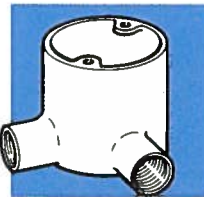
Material: Malleable Iron
 Finishes: Black Enamel, Galvanised
 60.3mm Internal Diameter x 62mm Deep. Tapped M4 at 50.8mm Centres. With tapped hole in base for earthing screw.
 Supplied without covers or fixing screws unless ordered.



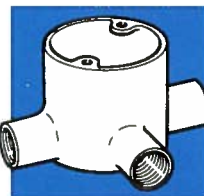
Terminal No. M231
 Size 20mm 25mm
 Standard Pack Qty 5 5
 Size 1 1/2" and 2" are available on special request only



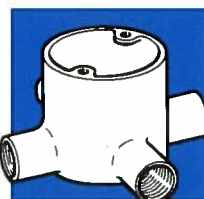
Through No. M232
 Size 20mm
 Standard Pack Qty 5



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.



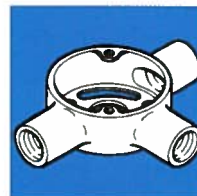
Terminal No. M241
 Size 20mm 25mm
 Standard Pack Qty 10 10



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

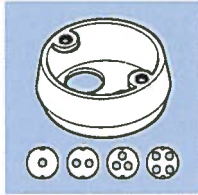
Note this is a special modified version of M186

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



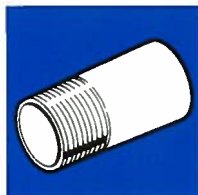
Medium, Malleable Iron No. M272
 Material: Malleable Iron. Finishes: Black Enamel, Galvanised. With tapped hole in base for earthing screw. 1,2,3,4 Holes.
 Minimum 31mm Deep x 63.5mm Internal Diameter. Standard Pack Qty: 10

ADAPTORS

Material: Steel
 Finish: Electro Zinc Plated

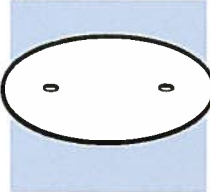


Imperial to Metric Adaptor No. R114
 Size: 3/4" MALE to 20mm FEMALE
 Standard Pack Qty: 100
 Size: 1" MALE to 25mm FEMALE
 Standard Pack Qty: 50

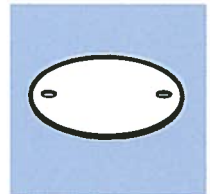


Metric to Imperial Adaptor No. R115
 Size: 20mm MALE to 3/4" FEMALE
 Standard Pack Qty: 100
 Size: 25mm MALE to 1" FEMALE
 Standard Pack Qty: 50

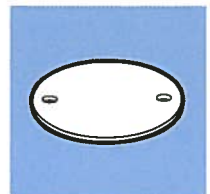
COVERS - CIRCULAR SMALL



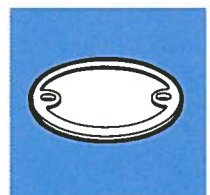
**Cover, Light, Overlapping, Loose,
No Screws No. R280**
Material: Steel
Finishes: Black Enamel, Galvanised
Standard Pack Qty: 50



**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

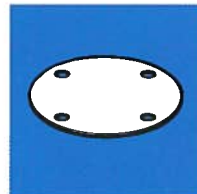


**Cover, Female Dome
No. R289**
Material: Steel
Finishes: Black Enamel, Galvanised
Size 20mm 25mm
Standard Pack Qty 25 25



**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

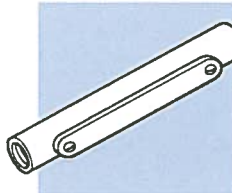


Hook, Female No. M504
 Material: Malleable Iron
 Finishes: Black Enamel, Galvanised
 Size 20mm 25mm
 Standard Pack Qty 50 50

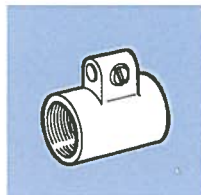
COUPLINGS



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



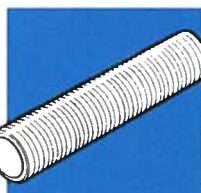
Coupling, Inspection No. M103
 Material: Malleable Iron Body, 16mm – 32mm,
 Steel Cover, 1 1/2" – 2" Malleable Iron Cover
 Finishes: Black Enamel, Galvanised
 Size 20mm 25mm 32mm
 Standard Pack Qty 25 10 5
 Size 1 1/2" 2"
 Standard Pack Qty 5 1



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

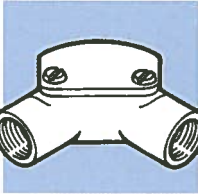


Coupling, Flanged, No. M110/M111
 Material: Malleable Iron
 Complete with washer and brass bush
 N.B. – Neoprene washers effect a greater degree of protection from the ingress of dust and/or liquids.
 Finishes: Black Enamel, Galvanised
 M110 (lead washer),
 M111 (Neoprene washer)
 Size 20mm 25mm 32mm
 Standard Pack Qty 50 50 25
 Size 1 1/2"
 Standard Pack Qty 25

ELBOWS

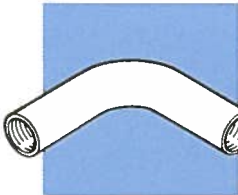


Elbow, Solid No. M121
 Material: Malleable Iron
 Finishes: Black Enamel, Galvanised
 Size 20mm 25mm 32mm
 Standard Pack Qty 25 25 10
 Size 1½" 2"
 are available on request only

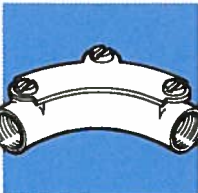


Elbow, Channel Inspection, No. M123
 Material: Malleable Iron, 20mm – 32mm
 Steel Cover 1½" – 2" Malleable Iron Cover
 Finishes: Black Enamel, Galvanised
 Size 20mm 25mm 32mm
 Standard Pack Qty 25 25 10
 Size 1½" 2"
 are available on request only

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

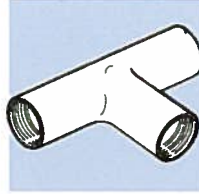


Lead No. F112
Neoprene No. F113
 Size 20mm 25mm 32mm
 Standard Pack Qty 50 50 25
 Size 1½"
 Standard Pack Qty 25

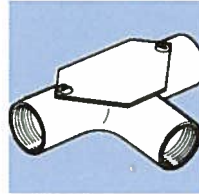


Serrated No. F116
 Material: Steel
 Finishes: Self Colour, Zinc Plated
 Size 20mm 25mm 32mm
 Standard Pack Qty 100 100 100

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

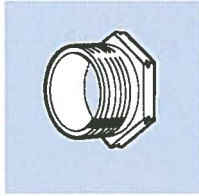


Ring, Extension No. R294
 Material: Steel
 Finishes: Black Enamel, Galvanised
 Size 6mm 10mm 13mm
 Standard Pack Qty 100 50 50
 Size 16mm 19mm 25mm
 Standard Pack Qty 25 25 25
 Size 32mm 38mm 50mm
 Standard Pack Qty 10 10 10

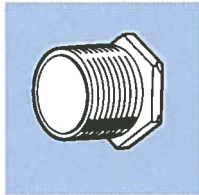


Clip, Earthing No. F506
 Material: Copper
 Finish: Self Colour
 Size 20mm 25mm 32mm
 Standard Pack Qty 100 100 50
 Size 1½" 2"
 Standard Pack Qty 50 50

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

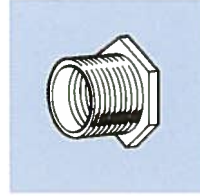


Plug, Slotted Head No. F535
 Material: Brass
 Finishes: Self Colour
 Size 20mm 25mm 32mm
 Standard Pack Qty 100 100 100
 Size 1½" 2"
 Standard Pack Qty 100 50



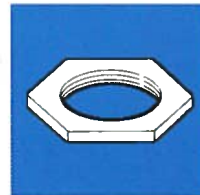
Gland for T.R.S. or similar cable No. F538
 Material: Brass
 Finishes: Self Colour
 Size 20mm 25mm
 Standard Pack Qty 100 100

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
 1½" 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



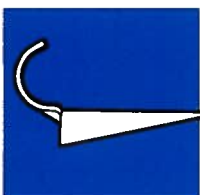
Saddle, Spacer Bar, One Way No. R431
 Material: Steel
 Finishes: Black Enamel, Galvanised
 Size 20mm 25mm 32mm
 Standard Pack Qty 100 100 50
 Size 1 1/2" 2"
 Standard Pack Qty 50 25



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

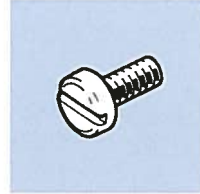


Saddle, 1 Way (Single) No. R451
 Material: Steel
 Finishes: Black Enamel, Galvanised
 Size 20mm 25mm 32mm
 Standard Pack Qty 100 100 100
 Size 1 1/2" 2"
 Standard Pack Qty 100 50

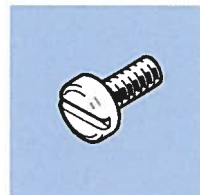


Crampet, Steel No. F461
 Material: Steel
 Finishes: Black Enamel, Galvanised
 Size 20mm 25mm
 Standard Pack Qty 100 100

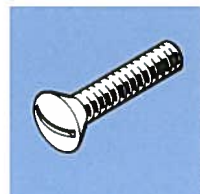
SCREWS



Brass. M4 Pan Head No. F645
 Length: 6mm 10mm 12mm 16mm
 20mm 25mm
 Standard Pack Qty: 100



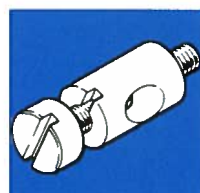
Brass. M3.5 Pan Head No. F646
 Length: 6mm 10mm 12mm 16mm
 20mm 25mm
 Standard Pack Qty: 100



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

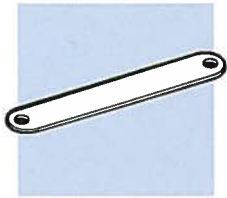


Screw - Steel, Bright Zinc Plated. M4 Pan Head No. F645
 Length: 5mm 6mm
 Standard Pack Qty: 100



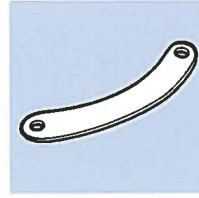
Screw - Steel, Bright Zinc Plated. M3.5 Pan Head No. F646
 Length: 5mm 6mm
 Standard Pack Qty: 100

GASKETS

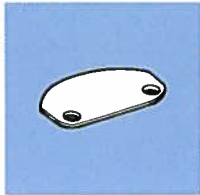


Rubber Gasket for Coupling,
Inspection No. F401
 Size 20mm 25mm 32mm
 Size 1 1/2" 2"

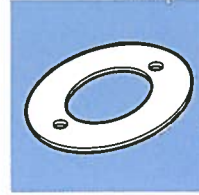
NO STANDARD PACK – ORDER AS REQUIRED



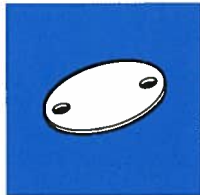
Rubber Gasket for Bend,
Inspection No. F408
 Size 20mm 25mm 32mm
 Size 1 1/2" 2"



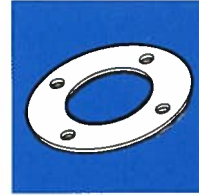
Rubber Gasket for Elbow,
Channel Inspection No. F402
 Size 20mm 25mm 32mm
 Size 1 1/2" 2"



Rubber Gasket for Box,
Small Circular No. F409

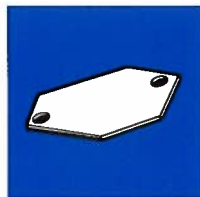


Rubber Gasket for Elbow,
Circular Inspection No. F403

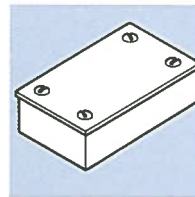


Rubber Gasket for Box,
Large Circular No. F410

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"



**Adaptable Boxes
Plain No. R261**

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.

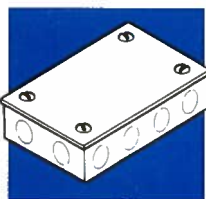
Boxes can be supplied to order with overlapping flat lids at an extra charge.

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.

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



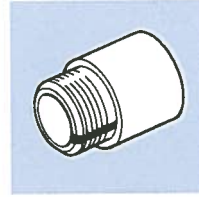
**Adaptable Boxes
with Knock-outs No. R262**

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	



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

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, 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

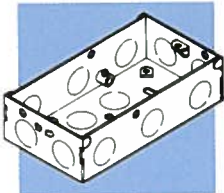
Material: Pre-coated galvanised steel

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	20 & 25mm	3 fixed and	10
Gang	KO's	1 adjustable	



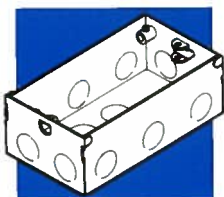
Switch and Socket Boxes
35mm deep No. BC92RE

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



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

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



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

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

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 compatibility between cable and lighting trunking.

The standard finish is high quality galvanised steel.

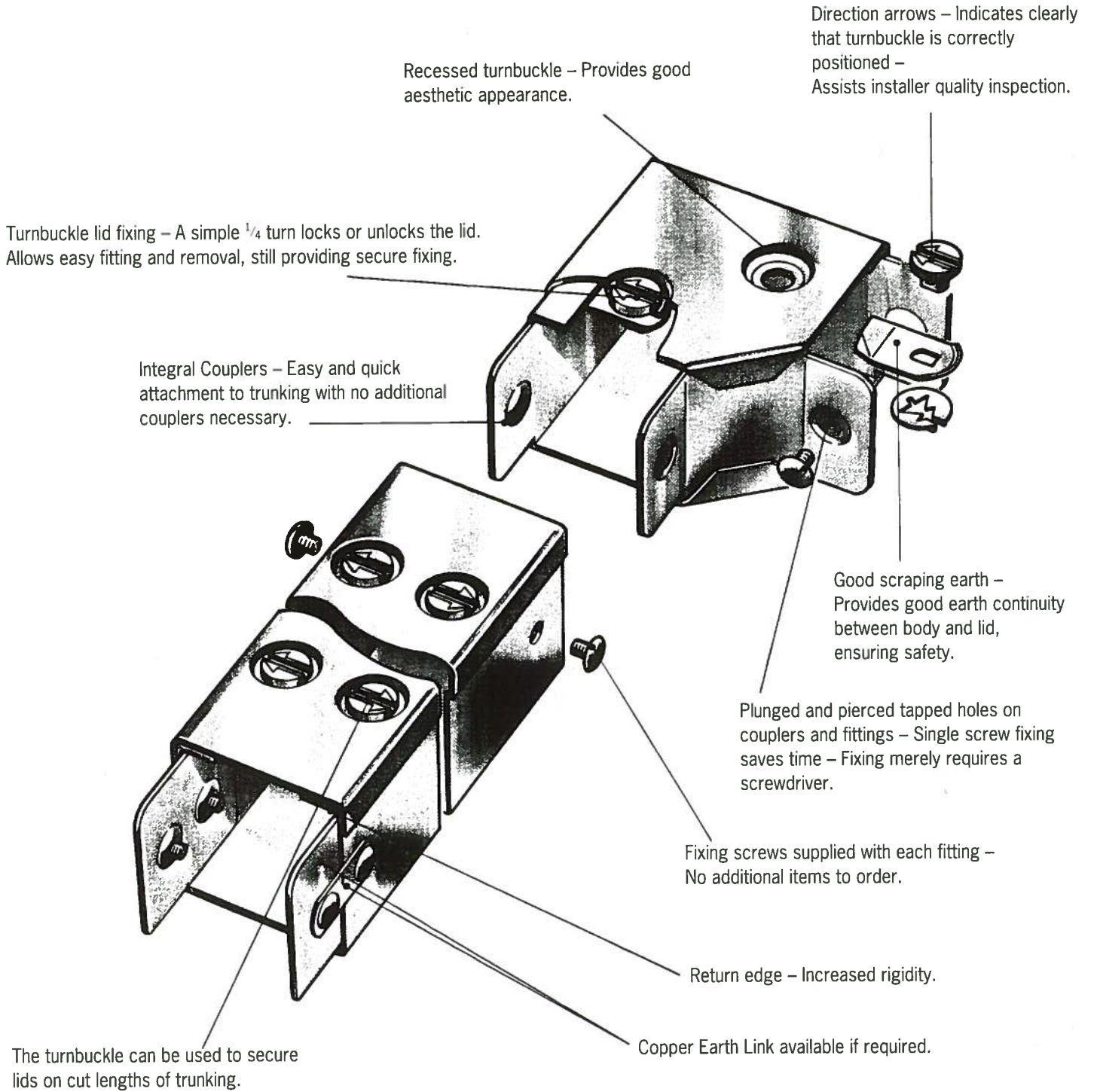
QUALITY

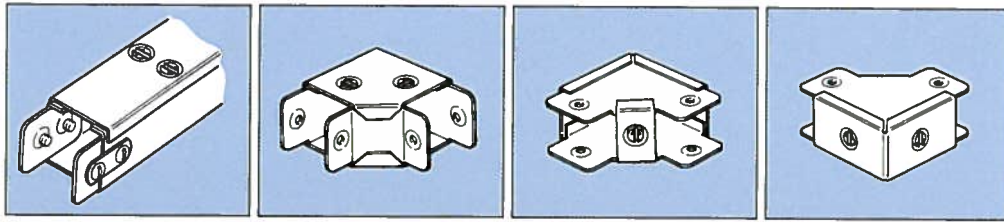
All galvanised steel used in the manufacture of cable trunking and fittings complies with BS EN 10142 (and BS 4678), ensuring a no-flake, no-fracture product.

MULTI COMPARTMENT TRUNKING

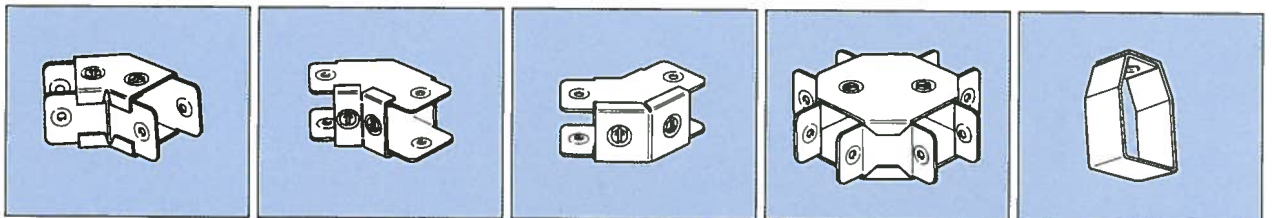
We manufacture Multi Compartment Trunking. Please see Page 28 for further information.

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

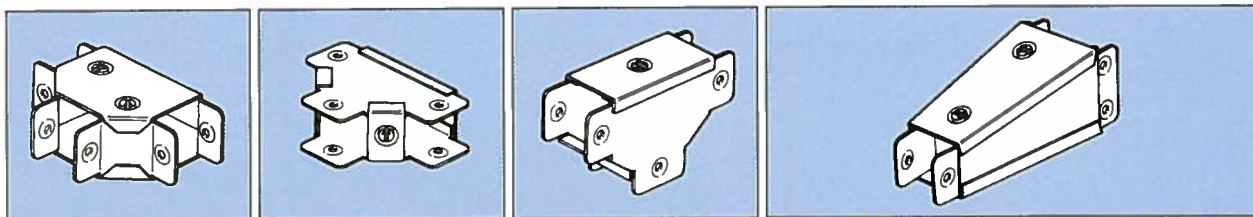


Dimensions (mm)	45 DEGREE BEND - TOP LID	45 DEGREE BEND - INSIDE LID	45 DEGREE BEND - OUTSIDE LID	4 WAY BOX	HANGER
50 x 50	QF/FFT 22	QF/FFI 22	QF/FFO 22	QF/FW 22	QF/H 22
75 x 50	QF/FFT 32	QF/FFI 32	QF/FFO 32	QF/FW 32	QF/H 32
75 x 75	QF/FFT 33	QF/FFI 33	QF/FFO 33	QF/FW 33	QF/H 33
100 x 50	QF/FFT 42	QF/FFI 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

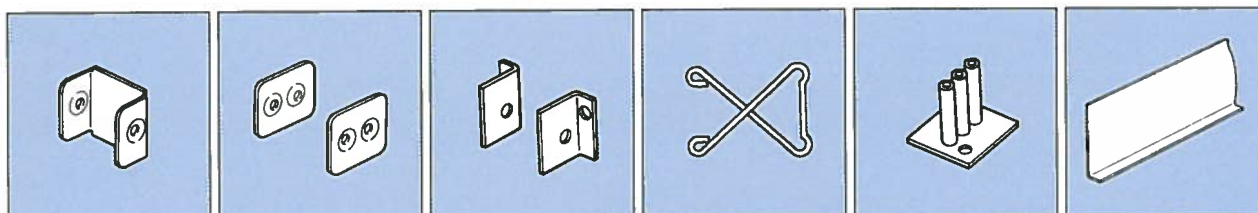
(1) Cable Trunking – 3m length complete with lid and couplers.

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

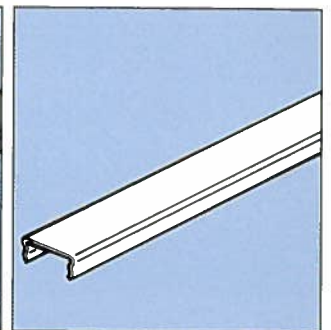
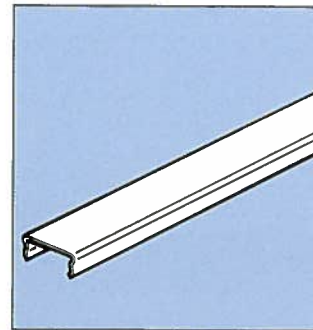
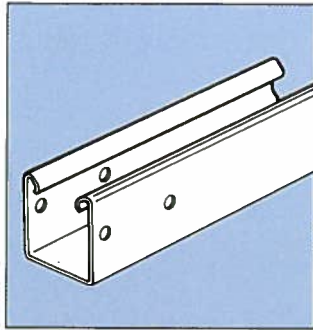
*2 Metre lengths available to order.

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

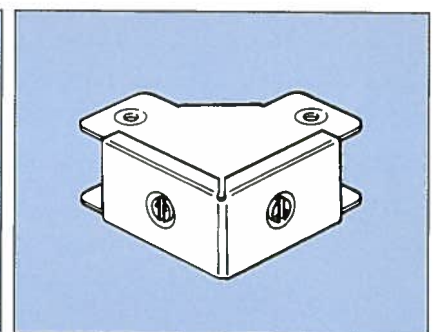
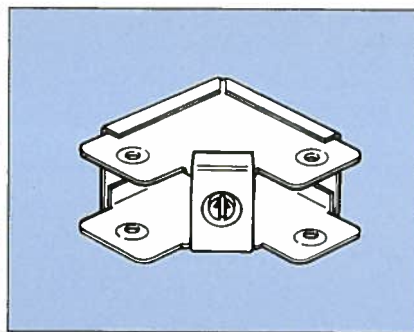
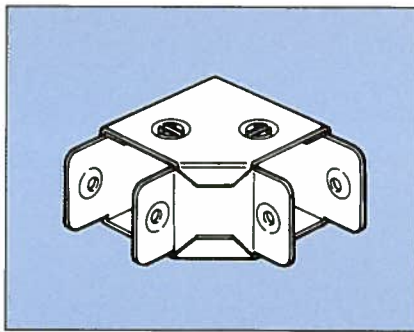
*Non gusset fittings and accessories are available.

Hangers are available with 11mm or 21mm holes.

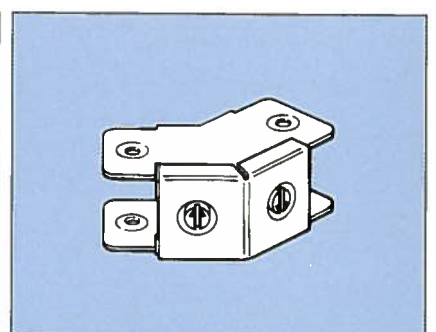
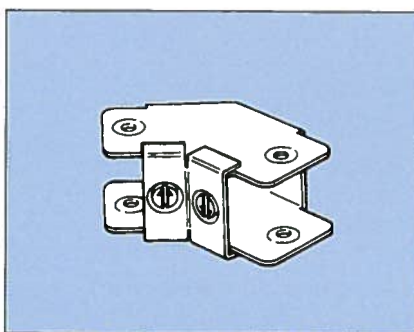
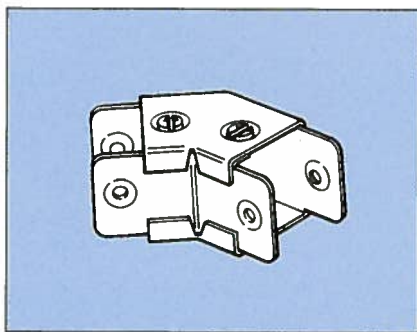
Manufactured from pre-galvanised sheet steel to BS EN 10142.



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

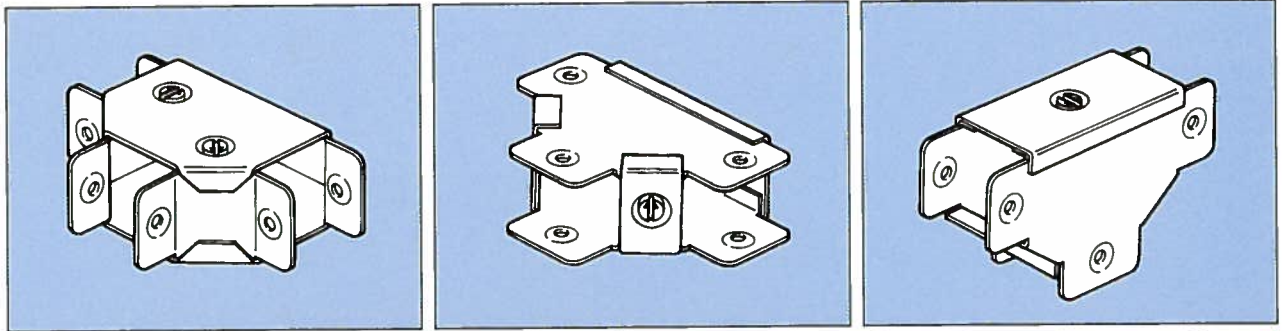


Dimensions mm	RIGHT ANGLE BEND - TOP LID	RIGHT ANGLE BEND - INSIDE LID	RIGHT ANGLE BEND - OUTSIDE LID
50 x 50	QF/RABT 22	QF/RABI 22	QF/RABO 22

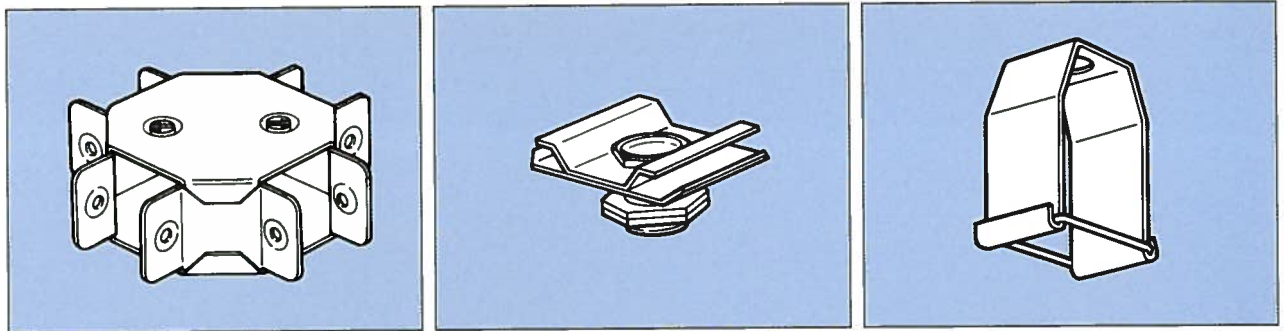


Dimensions mm	45 DEGREE BEND - TOP LID	45 DEGREE BEND - INSIDE LID	45 DEGREE BEND - OUTSIDE LID
50 x 50	QF/FFT 22	QF/FFI 22	QF/FFO 22

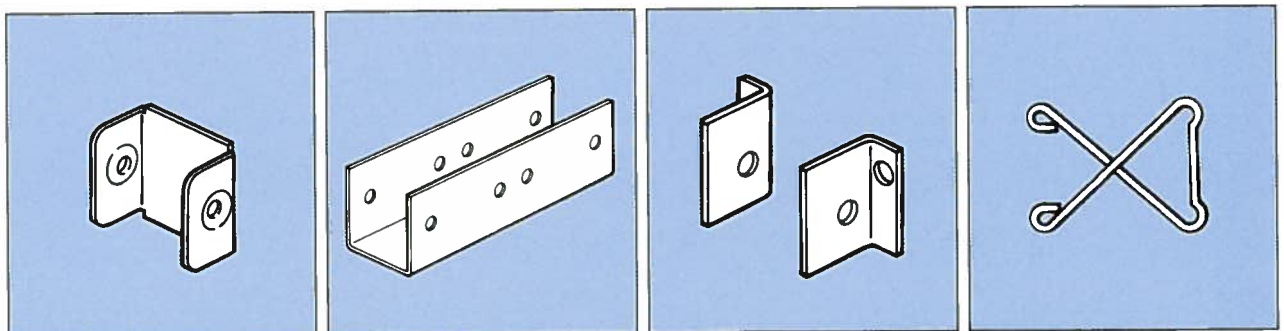
Product Code Example QF/RABT 22
 i.e. Quick-Fix/Right Angle Bend Top 2" x 2".



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



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



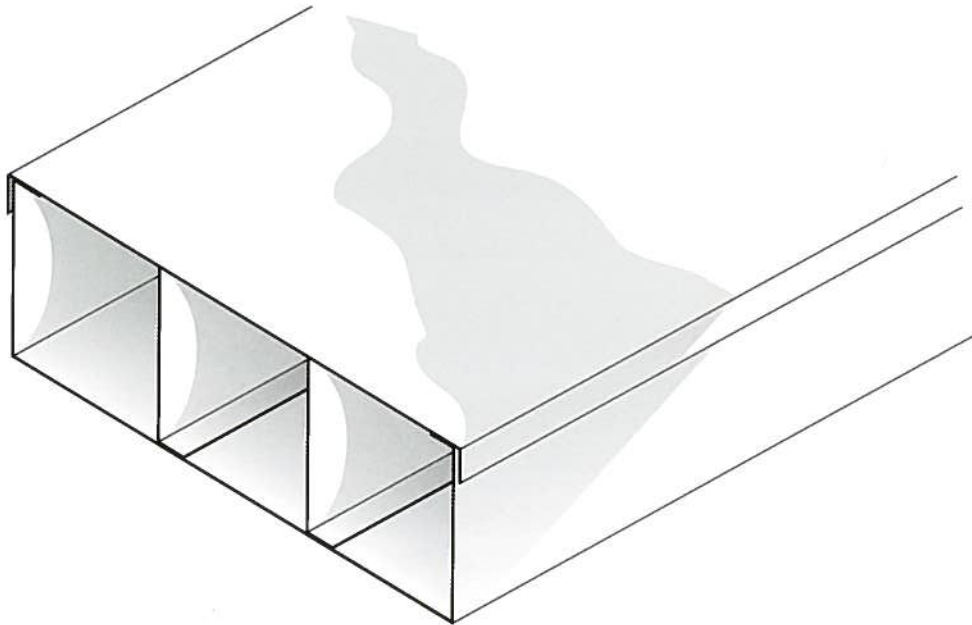
Dimensions mm	STOP END	COUPLER	FLANGED COUPLER	CABLE RETAINER
50 x 50	QF/SE 22	LT/SC 22 (Short) LT/LC 22 (Long)	QF/FC 22	QF/CRS 2

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	11	R261	16	F535	13
M103	11	R262	16	F536	17
M105	11	M272	9		17
F107	11		9	F537	17
F109	11	R274	9		17
M110	11	R280	10	F538	13
M111	11	R281	10	F562	17
F112	12	R282	10	F582	17
F113	12	M283	10	F645	14
R114	9	M286	10	F646	14
R115	9		10	F647	14
F116	12	R287	10	F648	14
M121	12	M288	10	F657	14
M123	12		10		
M131	12	R289	10	SWITCH AND SOCKET BOXES	
M133	12	R290	10	BC14RE47mm One Gang	19
R141	12	R294	12	BC22RE47mm Two Gang	19
M145	12	M361	8	BC82RE35mm One Gang	19
M181	6	M362	14	BC92RE35mm Two Gang	19
M182	6	M363	14		
M183	6	M370	12	TRUNKING	
M184	6	R381	10	QF/-- Quick-fix System	21 – 23
M185	6	R382	10	LT/-- Lighting System	24 – 25
M186	6	F401	15	Multi Compartment Trunking	26
M187	6	F402	15		
M188	6	F403	15		
M189	6	F405	15		
M190	6	F408	15		
M191	6	F409	15		
M192	6	F410	15		
M193	6	F415	15		
M194	6	R431	14		
M195	6	F441	14		
M196	7	R451	14		
M197	7	F461	14		
M211	7	M471	13		
M212	7	M501	11		
M213	7	M502	11		
M214	7	M503	11		
M215	7	M504	11		
M216	7	F505	13		
M217	7	F506	12		
M218	7	R507	13		
M219	7	M508	13		
M220	7	M527	13		
M221	7	F531	13		
	7	F532	13		
M222	7	F534	13		
M223	7				
M231	8				
M232	8				
M233	8				
M234	8				
M235	8				
M241	8				
M242	8				
M243	8				
M244	8				
M245	8				