



CONDUIT SYSTEM



GALVANISED STEEL CONDUITS

Material : Steel

Finish : Hot dip galvanised both Inside and outside (DG) / Pre-galvanised both Inside and outside (OP)
Standard : BS 4568 Part 1 Class 4 for hot dip galvanised conduits.

Standard Length : 3.75 metre

Note : Pre-galvanised Conduit does meet the requirements of BS 4568.

How to Order; Finish / Size

Eg : DG/ 25 (Hot dip galvanised inside and outside, 25mm conduit)

Conduits are supplied with both ends screwed and complete with one solid coupling.

Outer Diameter	NOMINAL THICKNESS	Approx. weight per Length(kgs)
20 mm	1.60±0.15	2.90
25mm	1.60±0.15	3.66
32 mm	1.60±0.15	4.88

40 and 50 mm Conduits are also available on request

SPACING OF SUPPORTS FOR CONDUITS

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

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

CABLE CAPACITIES OF CONDUITS

The following tables give guidance on the calculation of the number of singlecore PVC Insulated cables which can be pulled in various sizes of conduit.

The tables deal with two particular cases.

1. Singlecore PVC Insulated cables in straight runs not exceeding 3 metres in length.
2. Singlecore PVC insulated cables in straight runs exceeding 3 metres in length or in runs of any length with bends or sets.

1. Straight runs not exceeding 3 metres in length

- a) For each type of cable being used, obtain the cable factor from Table A.
- b) Sum all the cable factors and compare with the conduit factors given in Table 8.
- c) The conduit sizes which will accommodate the cables are those with a conduit factor equal to or greater than the sum of cable factors.

The following Tables A, B, C and D are for guidance only and any future wiring needs should be taken into account.

Table A - Cable factors for short straight runs

Type of Conductor	Conductor Cross Sectional area in mm ²	Factor
		22
		27
		39
		43
	4	58
	6	88

Table B - Conduit factors for short straight run

Conduit diameter In mm	Factor
20	460
25	800
32	1400

2. 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 A.
- Sum all the cable factors and compare with the conduit factors given in Table 8.
- The conduit sizes which will accommodate the cables are those with a conduit factor equal to or greater than the sum of cable factors.

Table C- Cable factors for Long straight runs, or runs incorporating bends

Type of Conductor	Conductor Cross Sectional area in mm ²	Factor
Solid or Stranded	1	22
	1.5	27
	2.5	39

Table D - Conduit factors for runs incorporating bends

Length of run (meters)	Conduit diameter in mm														
	20	25	32	20	25	32	20	25	32	20	25	32	20	25	32
	Straight			One bend			Two bend			Three bend			Four bend		
1	Covered by Table A & Table B			303	543	947	286	514	900	256	463	818	213	388	692
1.5				294	528	923	270	487	857	233	422	750	182	333	600
2				286	514	900	256	463	818	213	388	692	159	292	529
2.5				278	500	878	244	442	783	196	358	643	141	260	474
3				270	487	857	233	422	750	182	333	600			
3.5	290	521	911	263	475	837	222	404	720	165	311	563			
4	286	514	900	256	463	818	213	388	692	155	292	529			
4.5	282	507	889	250	452	800	204	373	667	149	275	500			
5	278	500	878	244	442	783	196	358	643	141	260	474			
6	270	487	857	233	422	750	182	333	600						
7	263	475	837	222	404	720	169	311	563						
8	256	465	818	213	388	692	159	292	529						
9	250	452	800	204	373	667	149	275	500						
10	244	442	783	196	358	643	141	260	474						

Small Malleable Boxes

Material: Malleable Iran

Finishes: Black Enamel, Galvanisec

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 cover or fixing screws unless ordered,

How to Order Accessories : product code / Size
Eg : D 101/25 (Terminal Box for 25mm Conduit)



TERMINAL

S. No. : O 101
 Size : 20mm 25mm
 Pack Qty : 10 x 10



BACK OUTLET

S. No. : O 106
 Size : 20mm 25mm
 Pack Qty : 10 x 10



THROUGH

S. No. : O 102
 Size : 20mm 25mm
 Pack Qty : 10 x 10



TERMINAL & BACK OUTLET

S. No. : O 107
 Size : 20mm 25mm
 Pack Qty : 10 x 10



ANGLE

S. No. : O 103
 Size : 20mm 25mm
 Pack Qty : 10 x 10



TERMINAL & BACK OUTLET

S. No. : O 108
 Size : 20mm 25mm
 Pack Qty : 10 x 10



TEE

S. No. : O 104
 Size : 20mm 25mm
 Pack Qty : 10 x 10



ANGLE & BACK OUTLET

S. No. : O 109
 Size : 20mm 25mm
 Pack Qty : 10 x 10



INTERSECTION

S. No. : O 105
 Size : 20mm 25mm
 Pack Qty : 10 x 10



TEE & BACK OUTLET

S. No. : O 110
 Size : 20mm 25mm
 Pack Qty : 10 x 10

Small Malleable Boxes / Large Malleable Boxes



INTR. SEC. & BACK OUTLET

S. No. : O 111
Size : 20mm 25mm
Pack Qty : 10 x 10



TWIN THROUGH WAY (Y)

S. No. : O 117
Size : 20mm 25mm
Pack Qty : 10 x 10



TANGENT THROUGH

S. No. : O 112
Size : 20mm 25mm
Pack Qty : 10 x 10



TANGENT ANGLE

S. No. : O 113
Size : 20mm 25mm
Pack Qty : 10 x 10



TANGENT TEE

S. No. : O 114
Size : 20mm 25mm
Pack Qty : 10 x 10



BRANCH TWO WAY (U)

S. No. : O 115
Size : 20mm 25mm
Pack Qty : 10 x 10



BRANCH THREE WAY (Y)

S. No. : O 116
Size : 20mm 25mm
Pack Qty : 10 x 10

Large Malleable Boxes

Material : Malleable Iron

Finishes : Black Enamel, Galvanised
81mm Internal Diameter

20mm & 25mm Boxes Minimum 35mm Deep

32mm Boxes Minimum 38mm Deep

Tapped M4 at 71.5mm centres.

With tapped hole in base for earthing screw.
Supplied without cover or fixing screws unless ordered.



TERMINAL

S. No. : O 118
Size : 20mm 25mm 32mm
Pack Qty : 5 x 5 x 5



THROUGH

S. No. : O 119
Size : 20mm 25mm 32mm
Pack Qty : 5 x 5 x 5



ANGLE

S. No. : O 120
Size : 20mm 25mm 32mm
Pack Qty : 5 x 5 x 5

Large Malleable Boxes

Boxes are available for 40 and 50mm conduit also.



TEE

S. No. : O 121
Size : 20mm 25mm 32mm
Pack Qty: 5 x 5 x 5



TEE & BACK OUTLET

S. No. : O 127
Size : 20mm
Pack Qty : 5



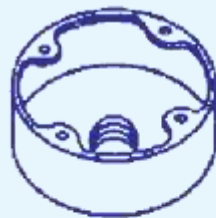
INTERSECTION

S. No. : O 122
Size : 20mm 25mm 32mm
Pack Qty: 5 x 5 x 5



INTR. SEC. & BACK OUTLET

S. No. : O 128
Size : 20mm
Pack Qty : 5



BACK OUTLET

S. No. : O 123
Size : 20mm
Pack Qty : 5



TANGENT ANGLE

S. No. : O 129
Size : 20mm 25mm 32mm
Pack Qty : 5 x 5 x 5



TERMINAL & BACK OUTLET

S. No. : O 124
Size : 20mm
Pack Qty : 5



TANGENT TEE

S. No. : O 130
Size : 20mm 25mm 32mm
Pack Qty : 5 x 5 x 5



THROUGH & BACK OUTLET

S. No. : O 125
Size : 20mm
Pack Qty : 5



ANGLE & BACK OUTLET

S. No. : O 126
Size : 20mm
Pack Qty : 5

REDUCER



REDUCER

S. No. : O 131
Material : Malleable Iron
Size : 20x16mm
Pack Qty : 10
Size : 25x16mm
Pack Qty : 100
Size : 25x20mm
Pack Qty : 100
Size : 32x20mm
Pack Qty : 50
Size : 32x25mm
Pack Qty : 50

Small Extension Pattern Boxes

Material : Malleable Iron

Finishes : Black Enamel, Galvanisec

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 cover or fixing screws unless ordered.



TERMINAL

S. No. : O 132
Size : 20mm 25mm
Pack Qty : 10 x 10



THROUGH

S. No. : O 133
Size : 20mm 25mm
Pack Qty : 10 x 10



ANGLE

S. No. : O 134
Size : 20mm 25mm
Pack Qty : 10 x 10



TEE

S. No. : O 135
Size : 20mm 25mm
Pack Qty : 10 x 10



INTERSECTION

S. No. : O 136
Size : 20mm 25mm
Pack Qty : 10 x 10

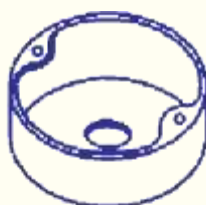
Looping Boxes

Material : Steel

Finishes : Black Enamel, Galvanisec

With tapped hole in base for earthing screw.

1 Hole or 4 knockouts.



Material : Malleable Iron

Finishes : Black Enamel, Galvanisec

With tapped hole in base for earthing screw.

1,2-3,4 Holes.



MALLEABLE IRON MEDIUM

S. No. : O 138
Size : 31mm Deep X 63.5 mm
Internal diameter
Pack Qty : 10

Small Box Covers



NO SCREWS LIGHT COVER WITH DIAMETER 86 mm

S. No. : O 139
material : Steel
Pack Qty : 50



NO SCREWS LIGHT COVER WITH DIAMETER 65 mm

S. No. : O 140
material : Steel
Pack Qty : 100



NO SCREWS LIGHT COVER WITH DIAMETER 65 mm

S. No. : O 141
material : Steel
Pack Qty : 100



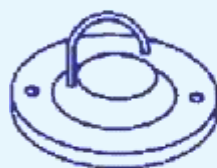
COVERS, BALL & SOCKET

S. No. : O 142
Size : 20mm 25mm
Material : Malleable Iron
Pack Qty : 25 25



FEMALE LOOP

S. No. : O 148
Size : 20mm 25 mm
Material : Malleable Iron
Pack Qty : 50 50



COVER HOOK DOME COMBINED

S. No. : O 143
Material : Steel
Pack Qty : 25



FEMALE HOOK

S. No. : O 149
Size : 20mm 25 mm
Material : Malleable Iron
Pack Qty : 50 50



FEMALE DOME COVER

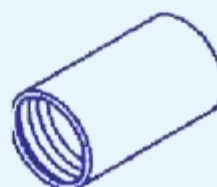
S. No. : O 144
Size : 20mm 25 mm
Material : Malleable Iron
Pack Qty : 25 25



FEMALE DOME COVER

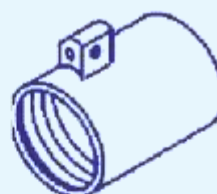
S. No. : O 145
Size : 20mm 25 mm
Material : Steel
Pack Qty : 25 25

Couplings



SOLID COUPLING

S. No. : O 150
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 100 100 50



EARTHING COUPLING

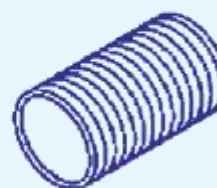
S. No. : O 151
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 50 50 25

Hooks and Loops



MALE LOOP

S. No. : O 146
Size : 20mm 25 mm
Material : Malleable Iron
Pack Qty : 50 50



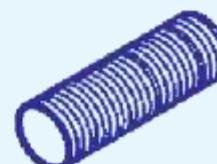
NORMAL NIPPLE

S. No. : O 152
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 50 50 25



MALE HOOK

S. No. : O 147
Size : 20mm 25 mm
Material : Malleable Iron
Pack Qty : 10 10



300MM LONG NIPPLE

S. No. : O 153
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 10 10 10



COUPLING FLANGED
No. M110/M111
 S. No. : O 154
 Size : 20mm 25mm 32mm
 Material : Malleable Iron
 Pack Qty : 50 50 25



TEE, CHANNEL
INSPECTION M133
 S. No. : O 160
 Size : 20mm 25mm 32mm
 Material : Malleable Iron
 Pack Qty : 50 20 10

Elbows

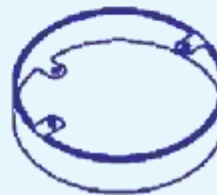


SOLID ELBOW
 S. No. : O 155
 Size : 20mm 25mm 32mm
 Material : Malleable Iron
 Pack Qty : 25 25 10



CHANNEL INSPECTION
ELBOW
 S. No. : O 156
 Size : 20mm 25mm 32mm
 Material : Malleable Iron
 Pack Qty: 25 25 10

Rings



300 MM LONG NIPPLE
 S. No. : O 161
 Material : Malleable Iron
 Size : 6mm 10mm 13mm
 Pack Qty : 10 50 30
 Size : 16mm 19mm 25mm
 Pack Qty : 25 25 25
 Size : 32mm 38mm 50mm
 Pack Qty : 10 10 10

Bends

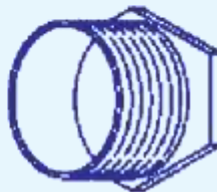


INTERNAL THREAD
NORMAL BEND
 S. No. : O 157
 Size : 20mm 25mm 32mm
 Material : Steel
 Pack Qty: 25 10 5

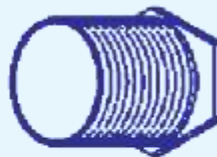


INSPECTION BENDS
 S. No. : O 158
 Size : 20mm 25mm 32mm
 Material : Malleable Iron
 Pack Qty: 25 10 5

Bushes



SHORT MALE BUSH
 S. No. : O 162
 Size : 20mm 25mm 32 mm
 Material : Brass
 Pack Qty : 100 50 50



LONG MALE BUSH
 S. No. : O 163
 Size : 20mm 25mm 32 mm
 Material : Brass
 Pack Qty : 100 50 50

Tees

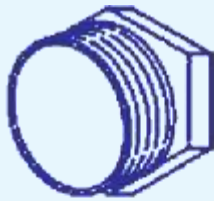


TEE
 S. No. : O 159
 Size : 20mm 25mm 32mm
 Material : Malleable Iron
 Pack Qty: 25 25 10

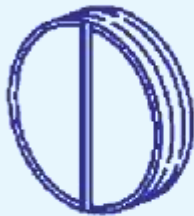


FEMALE BUSH
 S. No. : O 164
 Size : 20mm 25mm 32 mm
 Material : Brass
 Pack Qty : 100 100 100

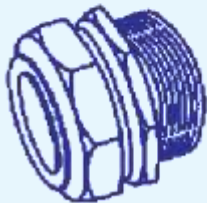
Plugs & Glands



HEXAGON HEAD PLUG
S. No. : O 165
Size : 20mm 25mm 32mm
Material : Malleable Iron
Pack Qty : 100 100 100



SLOTTED HEAD PLUG
S. No. : O 166
Size : 20mm 25mm 32mm
Material : Brass
Pack Qty : 100 100 100



GLAND FOR TRS
S. No. : O 167
Size : 20mm 25mm
Material : Brass
Pack Qty : 100 100

Locknuts



LIGHT HEXAGON LOCK NUT
S. No. : O 168
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 100 100 100



HEAVY HEXAGON LOCK NUT
S. No. : O 168
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 100 100 100



MILLED EDGE CIRCULAR LOCK NUT
S. No. : O 170
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 100 100 100

Saddles



HOSPITAL SADDLE
S. No. : O 171
Size : 20mm 25mm 32mm
Material : Malleable Iron base
Steel top
Pack Qty : 50 25 25



DISTANCE SADDLE
S. No. : O 172
Size : 20mm 25mm 32mm
Material : Malleable Iron base
Steel top
Pack Qty : 50 25 25



SPACE BAR SADDLE
S. No. : O 173
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 100 100 50



CLIP (HALF SADDLE)
S. No. : O 174
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 100 100 50



SADDLE 1 WAY (SINGLE)
No. R451
S. No. : O 175
Size : 20mm 25mm 32mm
Material : Steel
Pack Qty : 100 100 50



STEEL CRAMPET
S. No. : O 176
Size : 20mm 25mm
Pack Qty : 100 100

Switch and Socket Boxes

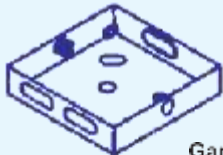
Material : Pre galvanized steel Finishes : Black Enamel, Galvanised Standard : 854662

Socket Boxes are available in various depths like 16mm, 25mm, 35mm and 48mm.

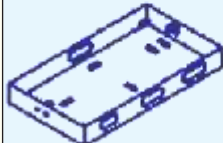
They are designed with adjustable lugs for easy fitting of accessories.

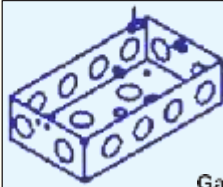
Each Box is produced with specified number and size of knockouts which allow adequate cable entries for wiring purpose.

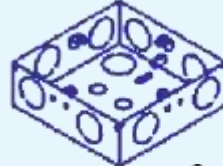
Normal Dimensions : One Gang 72mm x 72mm, Two Gang - 132 mm x 72mm

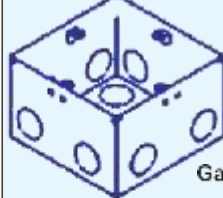
 SWITCH BOXES - ONE GANG 72 x 72x 16 mm S. No. DS 177			
Gang	Type of Entry	Fixing Lugs	Pack Qty.
One Gang	1 oval note fitted with rubber grommet and 3 oval KO's for grommet entry	1 fixed and 1 adjustable	20

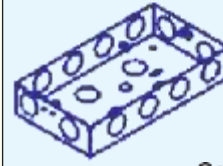
 SWITCH BOXES - ONE GANG 72 x 72x 35 mm S. No. DS 181			
Gang	Type of Entry	Fixing Lugs	Pack Qty.
One Gang	11x 20 mm KO's	2 fixed and 2 adjustable	10

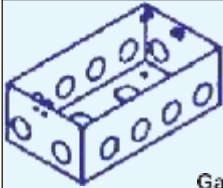
 SWITCH BOXES - TWO GANG 132 x 72x 16 mm S. No. DS 178			
Gang	Type of Entry	Fixing Lugs	Pack Qty.
Two Gang	1 oval note fitted with rubber grommet and 3 oval KO's for grommet entry	1 fixed and 1 adjustable	25

 SWITCH BOXES - TWO GANG 132 x 72x 35 mm S. No. DS 182			
Gang	Type of Entry	Fixing Lugs	Pack Qty.
One Gang	14 x 20 mm KO's	1 fixed and 1 adjustable	5

 SWITCH BOXES - ONE GANG 72 x 72x 25 mm S. No. DS 179			
Gang	Type of Entry	Fixing Lugs	Pack Qty.
One Gang	11 x 20 mm KO's	2 fixed and 2 adjustable	10

 SWITCH BOXES - ONE GANG 72 x 72x 47 mm S. No. DS 183			
Gang	Type of Entry	Fixing Lugs	Pack Qty.
One Gang	12 x 20 mm KO's	2 fixed and 2 adjustable	20

 SWITCH BOXES - TWO GANG 132 x 72x 25 mm S. No. DS 180			
Gang	Type of Entry	Fixing Lugs	Pack Qty.
Two Gang	16 x 20 mm KO's	1 fixed and 1 adjustable	5

 SWITCH BOXES - TWO GANG 132 x 72x 47 mm S. No. DS 184			
Gang	Type of Entry	Fixing Lugs	Pack Qty.
One Gang	12 x 20 mm KO's	1 fixed and 1 adjustable	10

Adaptable Boxes

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

The standard finishes are Pre Galvanised and Hot Dipped Galvanised.

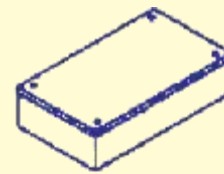
Where boxes are supplied with knock-outs the number and size are as follows:

Width of side	Number of K.O/s in each side	Size of K.O.*
75 mm	2	20mm
100 mm	3	20mm
150mm	4	20mm
225mm	6	20mm
300mm	6	20mm

*K.O. - Knock out

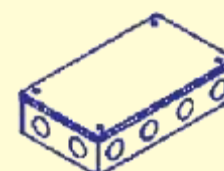
Flanged lids are fitted as standard to all boxes and are secured by MS x 8mm mushroom head screws.

Boxes can be supplied with overlapping flat lids and Rubber gaskets at an extra cost.



ADAPTABLE BOX
S. No. DS 185

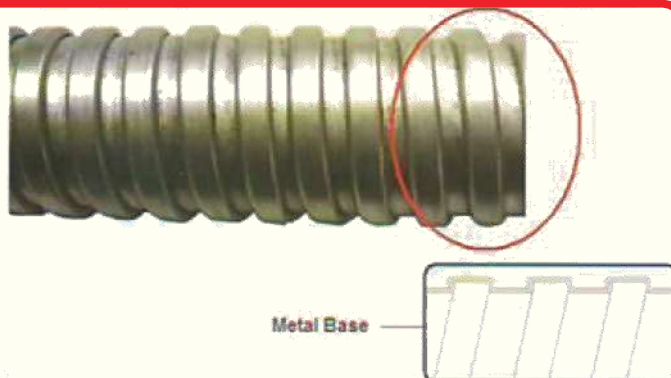
Size mm	Pack Qty
75 X 75X37.5	10
75 X 75X50	10
75 X 75 X75	6
100X 75X37.5	10
100X 75X50	10
100X 100X37.5	10
100X 100X50	10
100X 100X75	6
150X 75X37.5	6
150X 75X50	6
150X 75X75	6
150 X 100X37.5	6
150 X 100X50	6
150X100X75	6
150X 150X37.5	6
150X 150X50	6
150X150X75	4
150X 150X100	2
225X 75X37.5	6
225X 75X50	6
225X 75X75	6
225X 150X37.5	4
225X 150X50	4
225X 150X75	4
225X 150X100	2
225X225X50	2
225X 225X75	2
225X225X100	1
300X 150X50	2
300X 150X75	2
300X150X100	2
300X 225X50	2
300X 225X75	1
300X 225X100	1
300X300X50	2
300X 300X75	1
300X 300X100	1



ADAPTABLE BOX WITH KNOCK OUT
S. No. DS 185

FLEXIBLE CONDUIT

FEATURES OF STEEL FLEXIBLE CONDUITS



STANDARD COLOUR - SILVER

Good quality galvanized finishes to prevent early rust problem.

Quality and thick steel strip prevents flexible from breaking easily.

Full range of adaptors to suit various connection purposes.

Flexible conduits are available in stainless steel and hot dipped galvanized finish upon request.

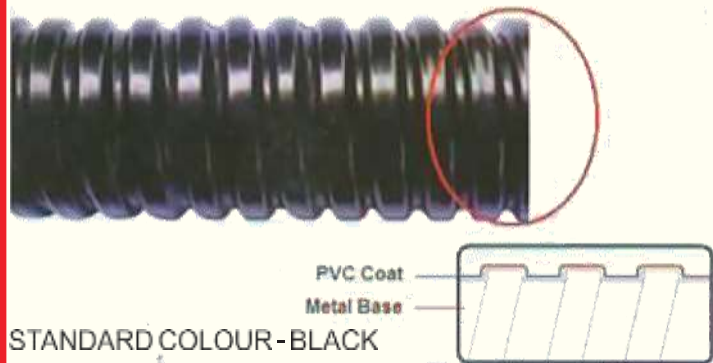
No.	Product Code	Diameter Inner (mm)	Diameter Outside (mm)	Pitch (mm)	Bend Radius	Packing Meter / Coil
1	OFC- -20	20.00	25.00	6.40	50	25 M/Roll
2	OFC- -25	25.00	31.50	8.70	57	25 M/Roll
3	OFC- -32	32.00	38.50	10.50	70	15 M/Roll

ADAPTORS



Material	Brass
Finishes	Nickel Rated
Sizes	20mm, 25mm, 32mm

FEATURES OF PVC COATED G.I. FLEXIBLE CONDUITS



STANDARD COLOUR - BLACK

Heat Resistance, self extinguishing P.V.C. sheathing.

Good flexibility (suitable for machinery if use with suitable and appropriate adaptor)

Excellent P.V.C. sheathing finishing.

Full range of adaptors available.

No.	Product Code	Diameter Inner (mm)	Diameter Outside (mm)	Pitch (mm)	Bend Radius	Packing Meter / Coil
1	OFC- -20	20.00	25.00	6.40	50	25 M/Roll
2	OFC- -25	25.00	31.50	8.70	57	25 M/Roll
3	OFC- -32	32.00	38.50	10.50	70	15 M/Roll

ADAPTORS



Material	Brass
Finishes	Nickel Rated
Sizes	20mm, 25mm, 32mm

STRUT CHANNEL

TYPE A



- Cold formed channel, slotted
- Strut channels for medium to heavy applications

SL NO	MATERIAL	FINISH	LENGTH	HEIGHT	WIDTH
1	STEEL	HOT DIP GALVANISED	3M	21MM	41MM
2	STEEL	PRE GALVANISED	3M	21MM	41MM
3	STEEL	STAINLESS STEEL	3M	21MM	41MM

TYPE B



- Cold formed channel, slotted
- Strut channels for medium to heavy applications

SL NO	MATERIAL	FINISH	LENGTH	HEIGHT	WIDTH
1	STEEL	HOT DIP GALVANISED	3M	41MM	41MM
2	STEEL	PRE GALVANISED	3M	41MM	41MM
3	STEEL	STAINLESS STEEL	3M	41MM	41MM



CONDUIT SYSTEM

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