



Winning Solutions Pte Ltd

Since 2019

WINNING SOLUTIONS PTE LTD
21 Woodlands Industrial Park E1
#02-03B
Singapore 757720

About Us

EMPOWERING CONNECTIVITY, ILLUMINATING FUTURES.

Together, We Electrify Possibilities.

Vision

Our vision is to be the unparalleled provider of electrical components, Pioneering innovation, and fostering collective success. Through collaboration and expertise, we illuminate pathways towards a brighter, connected future for all.



Get To Know About Us

WINNING SOLUTIONS PTE LTD, is a company for a Diversified and growing range of business which focuses on supporting Electrical Components to key infrastructure and engineering solutions to various industries.

Winning Solution is working closely with various customers. It's business now mainly focuses on promoting products which are environmentally friendly and sustainable.

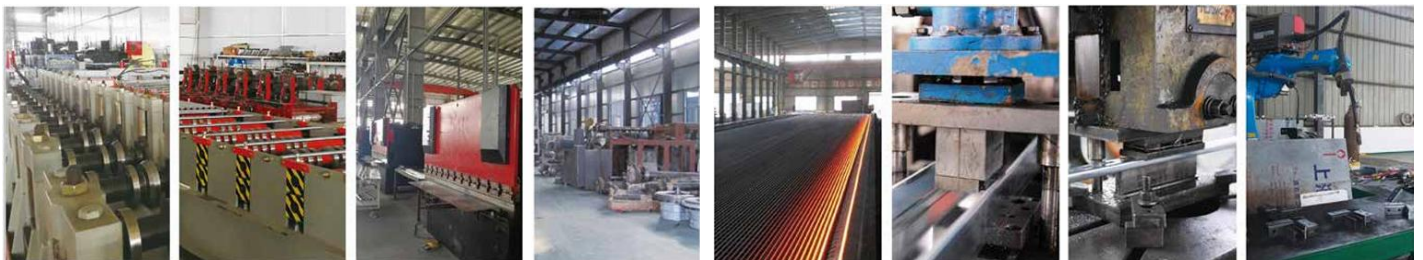
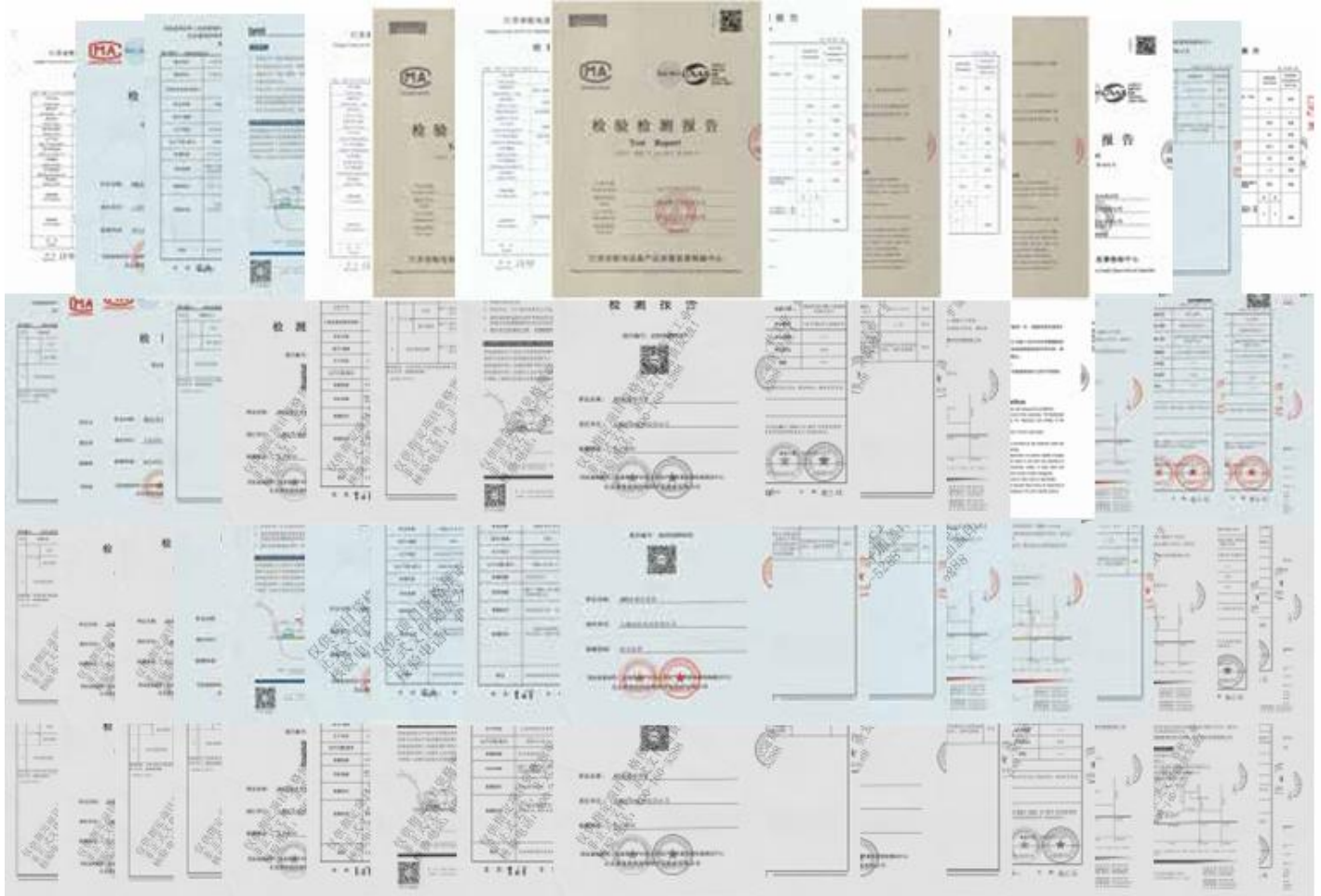
Since it's inception in 2019, Winning Solution Pte Ltd Continues to provide quality products and innovative

Solutions with excellent customer service that often exceeds our customer's expectations. With its technical excellence and know how, Winning Solution provides flexibility by offering competitive cost efficiency electrical components to meet the demands of a fast paced and ever-changing marketplace.



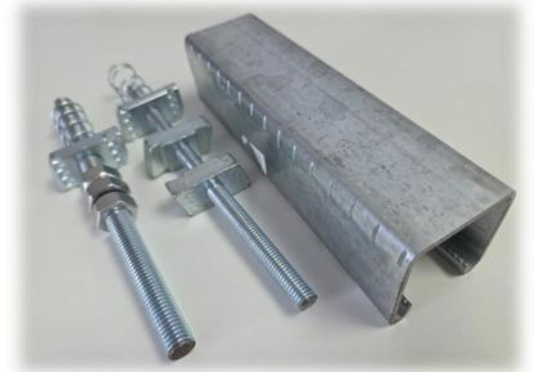
Unistrut

Quality Inspection Report



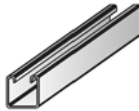
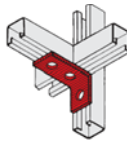
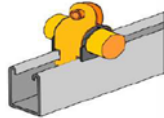
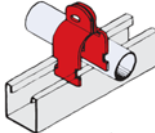
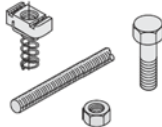
Unistrut Description

Unistrut is a versatile metal framing system designed for rapid, Reliable support of mechanical, electrical, and structural installations. Its standardized C-channel profile allows contractors to build strong structures without the need for welding or complex fabrication.



The system uses a unique combination of channels, brackets, And spring nuts, enabling components to be easily slotted, adjusted, and tightened on-site. This modular approach makes Unistrut highly adaptable for both new projects and retrofitting work.

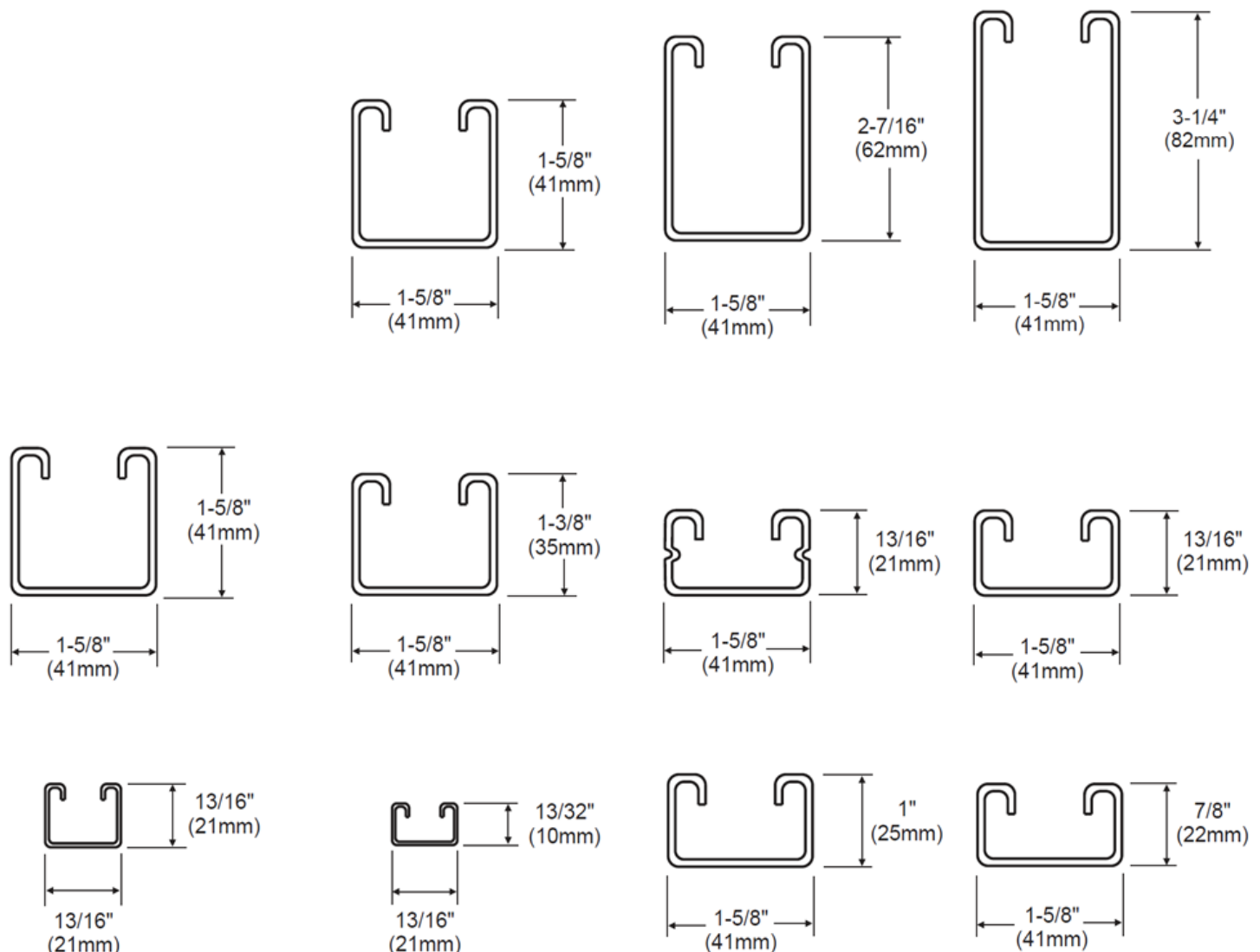
Commonly used in HVAC, electrical containment, pipe supports, and ceiling or equipment frameworks, Unistrut delivers durability, corrosion resistance, and long-term stability. Its flexibility and reusability make it a cost-effective and industry-trusted solution across commercial, industrial, and construction environments.

Strut Framing System	
Straight Sections	
Fittings	
Cushion Clamps	
Pipe Fitting Accessories	
Channel Nuts & Hardware	

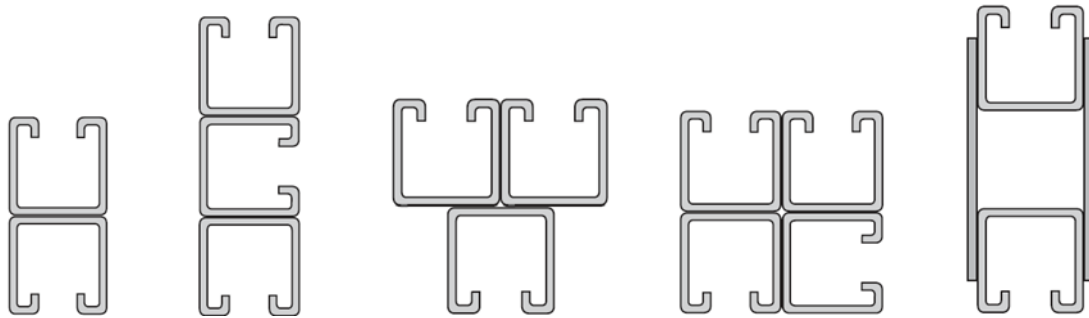
Strut Framing Systems – Channel Straight Sections

Unistrut channel straight sections are the primary building blocks of the Unistrut metal framing system. These straight lengths of cold-formed steel come in standard C-shaped profiles, providing strong and stable support without the need for welding. They are designed to accept Unistrut's signature spring nuts, allowing fast and secure attachment of brackets, clamps, and accessories.

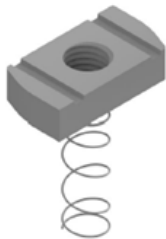
These channels come in various sizes—commonly 41×41 mm, 41×21 mm, or deeper/heavier-duty profiles—so installers can choose the right load capacity for their application. Depending on the environment, they're available in finishes such as pre-galvanized, hot-dip galvanized, stainless steel, or powder-coated options, ensuring durability even in harsh or outdoor conditions.



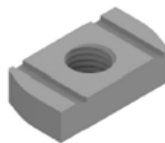
Strut Framing System – Possible Combinations



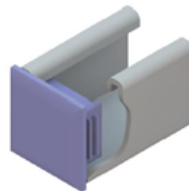
Accessories



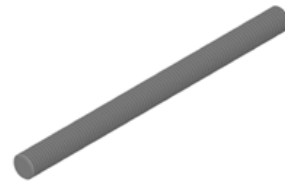
Long Spring
Nut



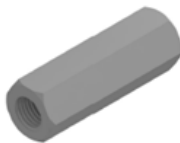
Channel Nut



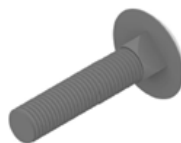
End Caps



Threaded Rod



Rod Coupler



Square Neck
Bolt

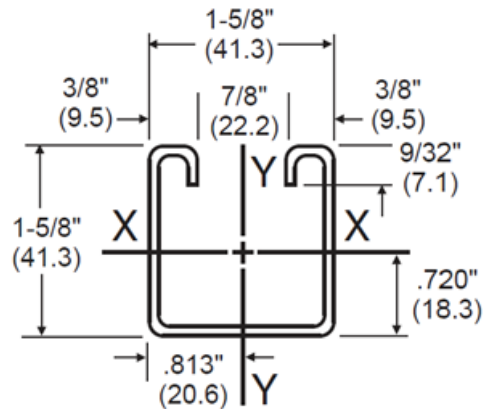


Flange Nut



Wedge Anchor

Recommendation Of Use



Wt. = 1.90 lbs/ft (2.83 kg/m)
 Area = 0.558 in² (3.60 cm²)
 $I_{x-x} = 0.185 \text{ in}^4$ (7.70 cm⁴)
 $S_{x-x} = 0.204 \text{ in}^3$ (3.34 cm³)
 $r_{x-x} = 0.576 \text{ in}$ (14.63 cm)
 $I_{y-y} = 0.234 \text{ in}^4$ (9.74 cm⁴)
 $S_{y-y} = 0.288 \text{ in}^3$ (4.72 cm³)
 $r_{y-y} = 0.647 \text{ in}$ (16.43 cm)
 Thickness = 12 GA (2.6 mm)

Recommendations of Use							
BEAM SPAN OR COLUMN HT. in mm		UNIFORM LOAD lbs kN		UNIFORM LOAD AT DEFLECTION = 1/240 SPAN lbs kN		MAXIMUM COLUMN LOAD lbs kN	
24	610	1700	7.62	1700	7.62	8370	37.50
36	914	1133	5.08	1133	5.08	7020	31.45
48	1219	850	3.81	772	3.46	5573	24.97
60	1524	680	3.05	494	2.21	4246	19.02
72	1829	566	2.54	343	1.54	3411	15.28
84	2134	485	2.17	252	1.13	2858	12.80
96	2438	425	1.90	193	0.86	2455	11.00
108	2743	377	1.69	152	0.68	2142	9.60
120	3048	340	1.52	123	0.55	1890	8.47

Part SKU		
WS020 0001	Threaded Rod	Hot-roll low carbon steel zinc-plated electrogalvanized (M12)
WS020 0002	Single Unistrut	Hot-Dipped Galvanized 41mm X 41mm X 3m

**** Please consult us for other types**

Steel Conduit System

Standard Compliance

Code	Standard Compliance
BS EN 61386-1 (BS EN 50086-1)	Conduit systems for cable management — Part 1: General requirements.
BS EN 61386-21 (BS EN 50086-21)	Conduit systems for cable management. Part 21. Particular requirements. Rigid conduit systems.
BS 4568-1	Specification for steel conduit and fittings with metric threads of ISO form for electrical installations. Steel conduit, bends and couplers.
BS 4568-2	Specification for steel conduit and fittings with metric threads of ISO form for electrical installations. Fittings and components.
BS 31	Specification. Steel conduit and fittings for electrical wiring.
BS 4662	Boxes for flush mounting of electrical accessories. Requirements, test methods and dimensions.

Cable Capacity Of Conduit

The following information shall be used to determine the size of conduit to accommodate same size of cables or different sizes. In this method a factor is been given to each cable size. The total sum of all the factors of the cables intended to be used in a conduit is verified against the factor allocated for the same size of conduit. The below tables suitable for the following two cases while using Single-core P.V.C insulated cable

- Case 1 – Straight run not exceeding 3m in length
- Case 2 – Straight run exceeding 3m or run any lengths
With bends

Conduit factor:

Conduit Diameter (mm)	Capacity factor
16	290
20	460
25	800
32	1400

Cable Factors

Cable factors for use in conduit not exceeding 3m in straight runs

Type of conductor	Conductor cross sectional area (mm ²)	Cable Factor
Solid	1	22
	1.5	27
	2.5	39
Stranded	1.5	31
	2.5	43
	54	58
	6	88
	10	146

Cable factors for use in conduit exceeding 3m in straight runs or in runs of any length with bends

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

Conduit Capacity Factor (Eceeding 3 meter in length)																					
	Conduit Diameter (mm)																				
	16	21	25	32	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	-	-	-	-	182	294	528	923	167	270	487	857	143	233	422	750	111	182	333	600	
2	-	-	-	-	177	286	514	900	158	256	463	818	130	213	388	692	97	159	292	529	
2.5	-	-	-	-	171	278	500	878	150	244	442	783	120	196	358	643	86	141	260	474	
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	293	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	385	643	86	141	268	474	-	-	-	-	-	-	-	-	

Conduits

CONDUIT is part of a closed wiring system of general circular cross-section for insulated conductors, electrical cables or communication installations, allowing them to be drawn in and/or replaced.

Calaba carries the following classes

BS 4568 – Class 3 – Medium Heavy Duty Conduit

- Manufactured accordance with BS 4568 part 1 similarly known as IEC 61386-21, IEC 60614-2-1, BS EN 61386-21, BS EN 50086-21
- Heavy protection on exterior and medium protection on interior of conduit surface
- Threaded at both ends, one end is fixed with socket and other end comes with protective plastic cap.

Nominal size (mm)	Outside Diameter (mm) Colour		Wall Thickness (mm)	Length of thread		Weight per Length (kg)
	Min.	Max.		Min.	Max.	
16	15.7	16.0	1.4±0.10	11.5	13.5	1.2kg
20	19.7	20.0	1.6±0.15	13.0	15.0	2.7kg
25	24.6	25.0	1.6±0.15	16.0	18.0	3.4kg
32	31.6	32.0	1.6±0.15	18.0	20.0	4.5kg

Note: * Standard length 3.75m * Customized colour finishing available based on request

BS 4568 Class 4 – Heavy Duty Conduit

- Manufactured accordance with BS 4568 part 1 similarly known as IEC 61386-21, IEC 60614-2-1, BS EN 61386-21, BS EN 50086-21
- Heavy protection on exterior of conduit surface
- Threaded at both ends, one end is fixed with socket and other end comes with protective plastic cap.

Nominal size (mm)	Outside Diameter (mm) Colour		Wall Thickness (mm)	Length of thread		Weight per Length (kg)
	Min.	Max.		Min.	Max.	
16	15.7	16.0	1.4±0.10	11.5	13.5	1.6kg
20	19.7	20.0	1.6±0.15	13.0	15.0	2.9kg
25	24.6	25.0	1.6±0.15	16.0	18.0	3.8kg
32	31.6	32.0	1.6±0.15	18.0	20.0	5.5kg

Note: *Standard length 3.75m * Customized colour finishing available based on request

Steel Conduit Accessories

Conduit Fittings & Accessories

Circular Junction Boxes:

CIRCULAR JUNCTION BOX is conduit fitting with a removable cover designed to join or terminate one or more components of a conduit system.

Material : Malleable cast iron

Finishing : Hot-Dip galvanized

Standard : BS 4568-2 (BS EN61386-21) 60.3mm

Internal Diameter, Tapped M4 at 50.8mm centres



1 way
Terminal Box



2 way
Terminal Box



2 way
Angle Box



3 way
Tee Box



4 way
Cross Box



Extension
Ring

Item Description	Size	Packaging
Circular Junction Box	20mm	10/100 Pack/CTN Qty
	25mm	10/100 Pack/CTN Qty
	32mm	5/10 Pack/CTN Qty



BOX LID

Material: Steel

Finishing: Pre-Galvanized / Hot-Dip Galvanized

Description	Size	Packaging
Circular Box Lid	20 ,25,32 mm	100/1000 Pack/CTN Qty



SPACER BAR SADDLE

Material: Steel

Finishing: Pre-Galvanized / Hot-Dip Galvanized

Description	Size	Packaging
Space Bar Saddle	20 ,25,32 mm	100/1000 Pack/CTN Qty



HALF SADDLE

Material: Steel

Finishing: Pre-Galvanized / Hot-Dip Galvanized

Description	Size	Packaging
Half Saddle	20 ,25,32 mm	100/1000 Pack/CTN Qty



COUPLING SOCKET

Material: Steel

Finishing: Pre-Galvanized / Hot-Dip Galvanized

Description	Size	Packaging
Coupling Socket	20 ,25,32 mm	100/1000 Pack/CTN Qty



SOCKET JOINT / SCREWLESS COUPLER

Material: Steel

Finishing: Pre-Galvanized / Hot-Dip Galvanized

Description	Size	Packaging
Socket Joint	20 ,25,32 mm	100/1000 Pack/CTN Qty



DOMES COVER / LID

Material: Malleable Iron

Finishing: Pre-Galvanized / Hot-Dip Galvanized

Description	Size	Packaging
Dome Cover/Lid	20, 25, 32 mm	20/200 Pack/CTN Qty



Reducer

Material: Brass / Alloy

Finishing: Pre-Galvanized

Description	Size	Packaging
Reducer	25mm x 20mm 32mm x 25mm	50/100 Pack/CTN Qty 20/500 Pack/CTN Qty



Brass Male Bush - Short

Material: Brass

Finishing: Self - Colour

Description	Size	Packaging
Brass Male Bush – Short	20mm, 25mm	50/100 Pack/CTN Qty
Brush Male Bush – Short	32mm	20/500 Pack/CTN Qty



Brass Male Bush - Long

Material: Brass

Finishing: Self - Colour

Description	Size	Packaging
Brass Male Bush – Long	20mm, 25mm	50/100 Pack/CTN Qty
Brass Male Bush – Long	32mm	20/500 Pack/CTN Qty



Brass Adaptor C/W Locknut

Material: Brass

Finishing: Self – Colour

Description	Size	Packaging
Brass Adaptor C/W Locknut	20mm x 20mm	50/100 Pack/CTN Qty
	25mm x 25mm	20/100 Pack/CTN Qty



Brass Adaptor C/W Locknut

Material: Brass

Finishing: Self – Colour

Description	Size	Packaging
Hex Locknut	20 ,25,32 mm	200/4000 Pack/CTN Qty

Switch & Socket Boxes

It is part of an enclosure provided with means for fixing a cover, cover plate, accessory, etc, and intended to receive socket outlets with portion of the side or back of a box which can readily be removed when required.

Material: Steel

Finishing: Pre-Galvanized/Hot-Dip galvanized

Standard: BS 4662



Description	Thickness	Size	Packaging
1 Gang Knock-out box (K.O)	1.1 -1.2mm 0.8 mm	75mm (W) X 75mm (L) X 35mm (H)	20/200 Pack/CTN Qty



Description	Thickness	Size	Packaging
2 Gang Knock-out box (K.O)	1.1 -1.2mm 0.8mm	135mm (W) X 75mm (L) X 35mm (H)	10/100 Pack/CTN Qty



Description	Thickness	Size	Packaging
1 Gang Knock-out box (K.O)w/fishtails	1.6mm	75mm (W) X 75mm (L) X 35mm (H)	20/200 Pack/CTN Qty



Description	Thickness	Size	Packaging
2 Gang Knock-out box (K.O)w/fishtails	1.6mm	135mm (W) X 75mm (L) X 35mm (H)	10/100 Pack/CTN Qty

GI & PVC COATED CORRUGATED CONDUIT

- Material** : Electro-Galvanized steel and Thick PVC sheath
Construction : Highly flexible and provide strong protection
Temp range : -50 deg C to +350 degC
IP Rating : IP40
Standard : BS 731-1/BS EN 50086-1/BS EN 61386-1



Item Description	Diameter	Length	Colour
GI Flexible	20mm 25mm	15 m	Self colour



Item Description	Diameter	Length	Colour
PVC Coated GI Flexible	20mm 25mm	15 m	Black colour

uPVC Conduit System

Conduit System is a closed wiring system consisting of conduits and conduit fittings for the protection and management of insulated conductors, electrical cables or communication installations, allowing them to be drawn in and / or replaced, but not to be inserted laterally. Calaba provides a wide range of metallic conduit and conduit fittings for concealed, surface wiring for electrical, Tele-communication appliance for all type of projects.



Material

Calaba Electrical Rigid Conduit pipes & Accessories are manufactured from unplasticized polyvinyl chloride polymer (uPVC). The basic material of uPVC is PVC which is made from vinyl chloride monomer usually known by its initials VCM through polymerization. Hence, it is rigid.

Codes & Standard Compliance

Code	Standard Compliance
IEC 61386-21:2002 (BS EN 61386-21)	Conduit systems for cable management - Part 21: Particular requirements - Rigid conduit systems where applicable
BS EN 61386-22:2004+A11:2010	Conduit systems for cable management. Particular requirements. Pliable conduit systems
BS 4607-5:1982+A3:2010	Non-metallic conduit fittings for electrical installations. Specification for rigid conduits, fittings and boxes of insulating material where applicable"
BS 4607-1:1984+A2:2010	Non-metallic conduits and fittings for electrical installations. Specification for fittings and components of insulating material where applicable
BS 4662:2006+A1:2009	Boxes for flush mounting of electrical accessories. Requirements, test methods and dimensions where applicable

Advantages



RESISTANT TO COMPRESSION

Resistance To Compression

uPVC material has structural flexibility that allow the material to withstand substantial deformation without permanent distortion even in the wall, in the concrete and underground.



Fire Resistant

uPVC conduit system is inherently difficult to ignite. If the ignition source is withdrawn, it will stop burning. Heat production is comparatively low making it particularly suitable for electrical wiring, electrical protection of the insulated conductors and cables therein contained.



RESISTANT AGAINST CORROSION

Resistance Against Corrosion

PVC is immune to damage from naturally corrosive soil conditions, as well as electrochemical and galvanic corrosion. This ensures lower maintenance costs and superior performance in the long run.



LIGHT WEIGHT & EFFICIENT

Light Weight & Efficient

uPVC can be cut, shaped, bent and joined easily in a variety of styles. Threading and special tools are not required for the installation which significantly improve the efficiency. Manual handling difficulties are also reduced due to its light weight. Thus, time and cost are saved.

uPVC Conduits

Conduit is part of a closed wiring system of general circular cross-section for insulated conductors, electrical cables or communication installations, allowing them to be drawn in and / or replaced. It is manufactured with uPVC material and tested accordance with IEC 61386 – 1 & IEC 61386 – 21.

It is classified into,

- Medium Duty – 332112
- Heavy Duty - 442112

Item Description	Diameter	Length (m)	Colour	Packaging
Conduits	16mm	2.9m	White/ Black	50 pcs/ bundle
	20mm			
	25 mm			
	32 mm			



Circular Junction Box is conduit fitting with a removable cover designed to join or terminate one or more components of a conduit system.



1 Way Terminal Box



2 Way Through Box



2 Way Angle Box



3 Way Tee Box



4 Way Cross Box



4 Way Looping Box



Cover Lid

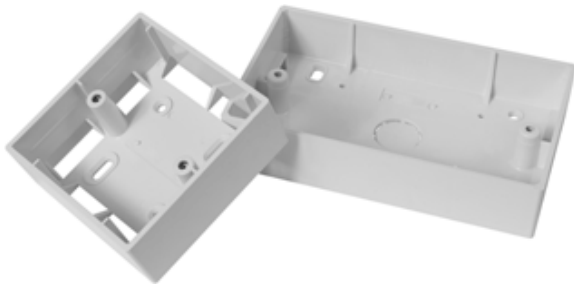


Extension Ring

Item Description	Size	Colour	Packaging
Junction Box	16 mm	White / Black	100 pcs / bag
	20 mm		
	25 mm		
	32 mm		
Extension Ring	38 mm		
	50 mm		
Cover Lid	-		100 pcs / bag

Mounting Box

Mounting box is a space behind conduit fitting such as power outlet sockets, light switches or electrical fixtures. It may be designed for surface mounting with cabling running along wall surface or embedded in to the wall.



Gang Surface Box



Gang Knock Out Box



Partition Box

Description	Size	Packaging
1 Gang Knock-out box (K.O)	75mm (W) X 75mm (L)	100pcs/bag
2 Gang Knock-out box (K.O)	75mm (W) X 150mm (L)	100pcs/bag
1 Gang Surface Mounting Box	75mm (W) X 75mm (L)	100pcs/bag
2 Gang Surface Mounting Box	75mm (W) X 150mm (L)	100pcs/bag
1 Gang Partition Box	75mm (W) X 75mm (L)	100pcs/bag
2 Gang Partition Box	75mm (W) X 150mm (L)	100pcs/bag



Blank Plate

Item Description	Colour	Packaging
Blank Plate	White/Black	100 pcs/bag



Socket



Female Adaptor



Strap Saddle



Dome Cover



Space Saddle

Item Description	Size	Colour	Packaging
Socket	20 mm 25 mm 32 mm	White / Black	100 pcs / bag
Female Adaptor			
Space Saddle			
Strap Saddle			
Dome Cover			

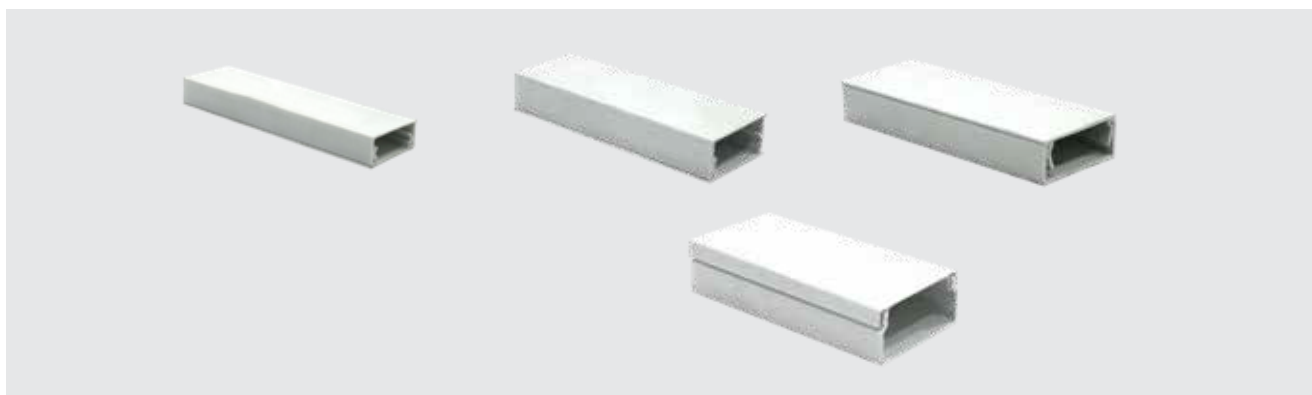
Corrugated Conduit

Corrugated conduits are suitable for applications where there is a possibility of movement and vibration, or in situations when rigid conduits are difficult to install. KUS Corrugated conduit maintaining the cross-section of its inner core and not collapsing when bent into very acute angles.



Item Description	Diameter	Length	Colour
Corrugated Conduit	16 mm	50 m	White / Black
	20 mm		
	25 mm		
	32 mm	25 m	

Calaba uPVC Trunking is manufactured from specially engineered high impact Polyvinyl Chloride that helps preserving a more durable beauty against weathering factors while it is installed along the walls and across ceilings in strict accordance to comply with Singapore Standard SS 275: 1999



Mini Trunking (2m)		
Size		Color
(mm)	(Inch)	White
20 X 10	3/4"	
27 X 13	1"	
32 X 13	1 1/4"	
40 X 16	1 1/2"	
40 X 20	1 1/2" X 3/4"	



Modular/ Aircon Trunking (2m)		
Size		Color
(mm)	(Inch)	White
50 X 30	2" X 1"	
50 X 50	2" X 2"	
75 X 50	2" X 3"	
100 X 50	2" X 4"	
100 X 75	3" X 4"	