



Conduit and fittings
Low smoke halogen free

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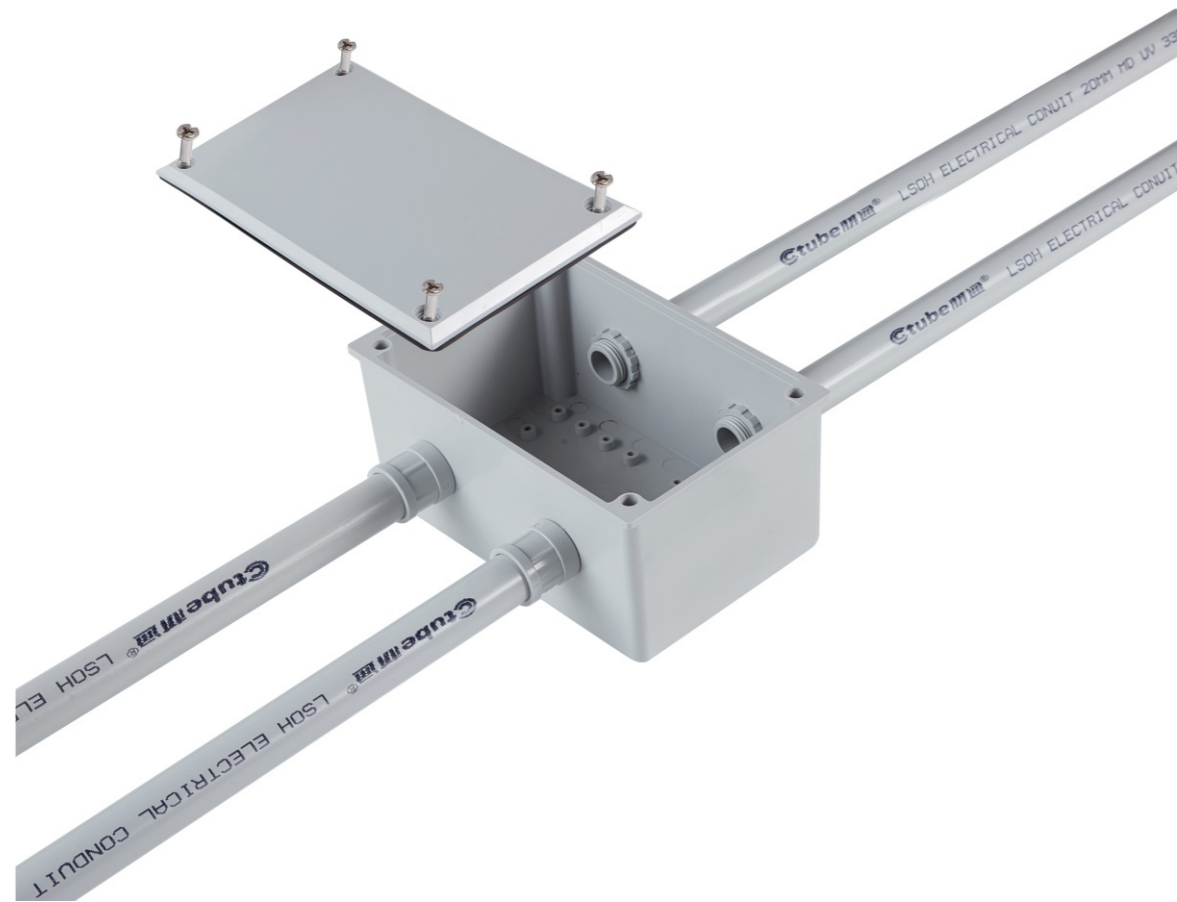
ABOUT US

Guangdong Ctube Industry Co., Ltd is a professional research and development , manufacturing and sales of highest quality low smoke halogen free conduits & fittings, as/nzs 2053 conduits & fittings, solar conduits & fittings, UL651 schedule 40&80 conduits & fittings. We have established a number of years of product development and production experience, passed the ISO 9001, ISO14001 certification.

Ctube Low smoke halogen free conduits & fittings is offer the highest quality, eco friendly products that are low smoke and no toxic caused by burning, which is suitable for electrical installation systems, particularly in all global public places, such as hospital , schools, cinemas, airport, buildings and so on. We tested and certificated compliant to IEC61386-1, IEC 61386-21, ASTM E662, UL94 , IEC60754-2, IEC61034-2, IEC60529, IEC60670.



we design innovative
conduit systems that protect
people and their property



Low smoke halogen free conduit system

In case of a fire accident, the chlorine released from conventional plastics (halogenated) reacts with the humidity of the atmosphere producing hydrochloric acid which is dangerous and harmful both to people and environment.

CTUBE halogen free and low smoke conduit systems have been designed in such a way in order to develop an additional protection in a burning building.



What halogen free?

Conduits for electrical installations need specific features to fulfil increased safety requirements that are low smoke, flame retardant, zero halogen.



Why halogen free?

In case of a fire accident, toxic and dense smoke caused by burning plastics poses a massive threat which is dangerous and harmful to both people and environment.



Ensure you safety

During combustion halogens produce gases, soot and chemical residues that generate dark and dense smoke waves which reduce the visibility of escape routes and hinder evacuation operations by rescue crews.



Protect your equipment

The corrosive gases that will result from the combustion of halogenated plastic materials can damage all areas exposed to smoke and cause severe corrosion in a particularly short time.

Low smoke halogen free conduit system

conduit systems have been exclusively designed for construction projects where safety, reliability and reduced environmental footprint are top priority. Their main advantages are as follows:



In case of a fire accident, they don't release toxic and corrosive gases during combustion, protecting people and environment.



In case of a fire accident, they ensure better visibility of escape routes due to their low smoke emission.



They provide higher protection of building facilities and mechanical equipment due to the absence of corrosive gases during their combustion.



They ensure high impact resistance in extreme low temperature conditions (at -45°C).



They contain flame retardants that reduce flame propagating.



They achieve a low environmental footprint as they fully satisfy RoHS, IEC, CE, ISO and REACH European regulations concerning the use of hazardous and chemical substances respectively.



the design



Need

Preventing adverse incidents with fatal outcomes due to the use of unsuitable building materials in public gathering places.



Research

Designing a product made from top quality raw materials that will not release any toxic or corrosive gases or emit a dense wave of smoke in case of fire.



Manufacturing technology

Halogen free and low smoke raw materials supplied by the top plastic manufacturers as well as the design of a fully-automated production line (extruders and injections) of latest technology.



Generation

Two integrated conduit systems, available in heavy and medium type according to their compression resistance, with brand names CTUBE in nominal outer diameters from Ø16 to Ø63, along with a complete series of fittings (bends, couplers, clips, adaptors) and junction boxes.

ISO System Test

Two ISO 14001:2015 Certificate of Registration documents for Guangdong Ctube Industry Co., Ltd. issued by Certification International.

ASTM E662

ASTM E662 TEST REPORT for Guangdong Ctube Industry Co., Ltd. dated 07/16/2020, including test results and a photograph of the test setup.

IEC 61386-25

IEC 61386-25 TEST REPORT for Guangdong Ctube Industry Co., Ltd. dated 07/16/2020, including test results, a table of test items, and a photograph of the test setup.

IEC61034-2

IEC61034-2 TEST REPORT for Guangdong Ctube Industry Co., Ltd. dated 05/13/2020, including test results and a photograph of the test setup.

IEC60670

IEC60670 TEST REPORT for Guangdong Ctube Industry Co., Ltd. dated 07/16/2020, including test results, a table of test items, and a photograph of the test setup.

IEC61386-1,-21

IEC61386-1,-21 TEST REPORT for Guangdong Ctube Industry Co., Ltd. dated 07/16/2020, including test results, a table of test items, and a photograph of the test setup.

IEC60754-2

Report No. TC.20.09.004363, Date of Issue 09/14/2020, Applicant: Guangdong Chube Industry Co., Ltd., Description of the test subject: IEC 60754-2:2011 Test on gases evolved during combustion of materials from cables...

Report No. TC.20.09.004363, Date of Issue 09/14/2020, Applicant: Changzhou Jinbao Railway Transportation Technical Service Co., Ltd., Description of the test subject: IEC 60754-2:2011 Test on gases evolved during combustion of materials from cables...

Report No. TC.20.09.004363, Date of Issue 09/14/2020, Applicant: Changzhou Jinbao Railway Transportation Technical Service Co., Ltd., Description of the test subject: IEC 60754-2:2011 Test on gases evolved during combustion of materials from cables...

UL 94

Report No. TC.20.07.002836, Date of Issue 07/10/2020, Applicant: Guangdong Chube Industry Co., Ltd., Description of the test subject: UL 94-2012 Plastic flammability test for electrical equipment...

Report No. TC.20.07.002836, Date of Issue 07/10/2020, Applicant: Changzhou Jinbao Railway Transportation Technical Service Co., Ltd., Description of the test subject: UL 94-2012 Plastic flammability test for electrical equipment...

Report No. TC.20.07.002836, Date of Issue 07/10/2020, Applicant: Changzhou Jinbao Railway Transportation Technical Service Co., Ltd., Description of the test subject: UL 94-2012 Plastic flammability test for electrical equipment...

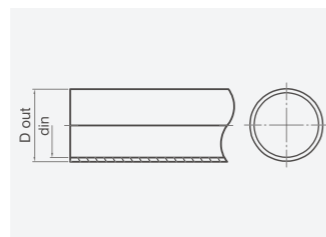
Low and high temperature

Report No. TC.20.07.002839, Date of Issue 07/10/2020, Applicant: Guangdong Chube Industry Co., Ltd., Description of the test subject: High and low temperature test...

Report No. TC.20.07.002839, Date of Issue 07/10/2020, Applicant: Guangdong Chube Industry Co., Ltd., Description of the test subject: High and low temperature test...

Report No. TC.20.07.002839, Date of Issue 07/10/2020, Applicant: Changzhou Jinbao Railway Transportation Technical Service Co., Ltd., Description of the test subject: High and low temperature test...

HF Rigid Conduit (Heavy duty)




Standards:
IEC61386-1, IEC61386-21
IEC60754-2, IEC61034-2
ASTM E662, ISO19700, UL94



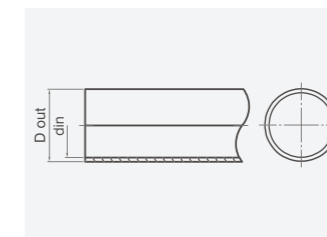
Properties

Resistance to compression	1250Nt/5cm
Resistance to impact	Heavy
Temperature range	-45 °C to +150 °C
Resistance to bending	Rigid
Ageing resistance	UV stabilized
Electrical characteristics	With electrical insulated characteristics
IP ingress protection	Waterproof
Resistance to flame propagation	V0
Resistance to insulation	>1000MΩ , 2000V~no breakdown
Color selection	White/Black/Grey
Raw material	Halogen free thermoplastic

Products code	Type (mm)	Min OD	Max OD	Wall T(mm)	
CT-HFHDR20	∅20	19.7	20.0	2.3-2.6	25pcs/bar
CT-HFHDR25	∅25	24.7	25.0	2.5-2.8	18pcs/bar
CT-HFHDR32	∅32	31.7	32.0	2.7-3.0	12pcs/bar
CT-HFHDR40	∅40	39.7	40.0	3.1-3.4	12pcs/bar
CT-HFHDR50	∅50	49.7	50.0	3.4-3.9	5pcs/bar
CT-HFHDR63	∅63	62.7	63.0	3.9-4.5	
CT-HFHDR65	∅65	75.2	75.5	3.9-4.5	
CT-HFHDR80	∅80	88.7	89.1	4.6-5.3	
CT-HFHDR100	∅100	114.1	114.5	5.9-6.7	

Remarks: can be customized thickness and color

HF Rigid Conduit (Medium duty)




Standards:
IEC61386-1, IEC61386-21
IEC60754-2, IEC61034-2
ASTM E662, ISO19700, UI94



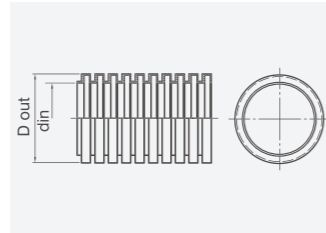
Properties

Resistance to compression	750Nt/5cm
Resistance to impact	Medium
Temperature range	-45 °C to +150 °C
Resistance to bending	Rigid
Ageing resistance	UV stabilized
Electrical characteristics	With electrical insulated characteristics
IP ingress protection	Waterproof
Resistance to flame propagation	V0
Resistance to insulation	>1000MΩ , 2000V~no breakdown
Color selection	White/Black/Grey
Raw material	Halogen free thermoplastic

Products code	Type (mm)	Min OD	Max OD	Wall T(mm)	
CT-HFMDR20	∅20	19.7	20.0	1.8-2.1	25pcs/bar
CT-HFMDR25	∅25	24.7	25.0	1.8-2.1	18pcs/bar
CT-HFMDR32	∅32	31.7	32.0	2.1-2.4	12pcs/bar
CT-HFMDR40	∅40	39.7	40.0	2.4-2.7	12pcs/bar
CT-HFMDR50	∅50	49.7	50.0	2.8-3.1	5pcs/bar
CT-HFMDR63	∅63	62.7	63.0	3.0-3.5	
CT-HFMDR65	∅65	75.2	75.5	3.0-3.5	
CT-HFMDR80	∅80	88.7	89.1	3.5-4.1	
CT-HFMDR100	∅100	114.1	114.5	4.5-5.2	

Remarks: can be customized thickness and color

HF Corrugated Conduit (Heavy duty)





Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, IEC61034-2
 ASTM E662, ISO19700, UL94



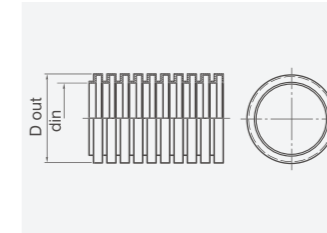
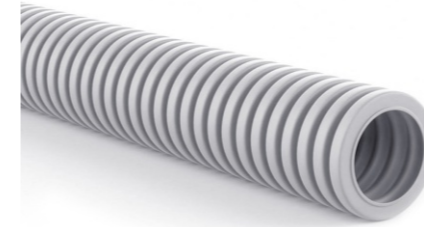
Properties

Resistance to compression	1250Nt/5cm
Resistance to impact	Heavy
Temperature range	-45 °C to +150 °C
Resistance to bending	Flexible
Ageing resistance	UV stabilized
Electrical characteristics	With electrical insulated characteristics
IP ingress protection	Waterproof
Resistance to flame propagation	V0
Resistance to insulation	>1000MΩ , 2000V~no breakdown
Color selection	White/Black/Grey
Raw material	Halogen free thermoplastic

Products code	Type		Min ID	
CT-HFHDC20	∅20	20±0.3	12.7	50
CT-HFHDC25	∅25	25±0.4	16.5	25
CT-HFHDC32	∅32	32±0.4	22.0	25
CT-HFHDC40	∅40	40±0.4	28.3	20
CT-HFHDC50	∅50	50±0.5	36.0	20

Remarks: can be customized thickness and color

HF Corrugated Conduit (Medium duty)





Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, IEC61034-2
 ASTM E662, ISO19700, UI94



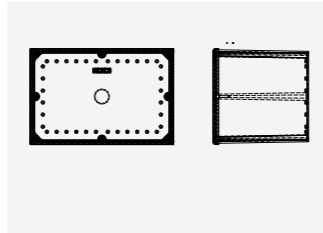
Properties

Resistance to compression	750Nt/5cm
Resistance to impact	Medium
Temperature range	-45 °C to +150 °C
Resistance to bending	Flexible
Ageing resistance	UV stabilized
Electrical characteristics	With electrical insulated characteristics
IP ingress protection	Waterproof
Resistance to flame propagation	V0
Resistance to insulation	>1000MΩ , 2000V~no breakdown
Color selection	White/Black/Grey
Raw material	Halogen free thermoplastic

Products code	Type		Min ID	
CT-HFMDC20	∅20	20±0.3	14.1	50
CT-HFMDC25	∅25	25±0.4	18.3	25
CT-HFMDC32	∅32	32±0.4	24.3	25
CT-HFMDC40	∅40	40±0.4	31.2	20
CT-HFMDC50	∅50	50±0.5	39.6	20

Remarks: can be customized thickness and color

HF Waterproof adaptable box



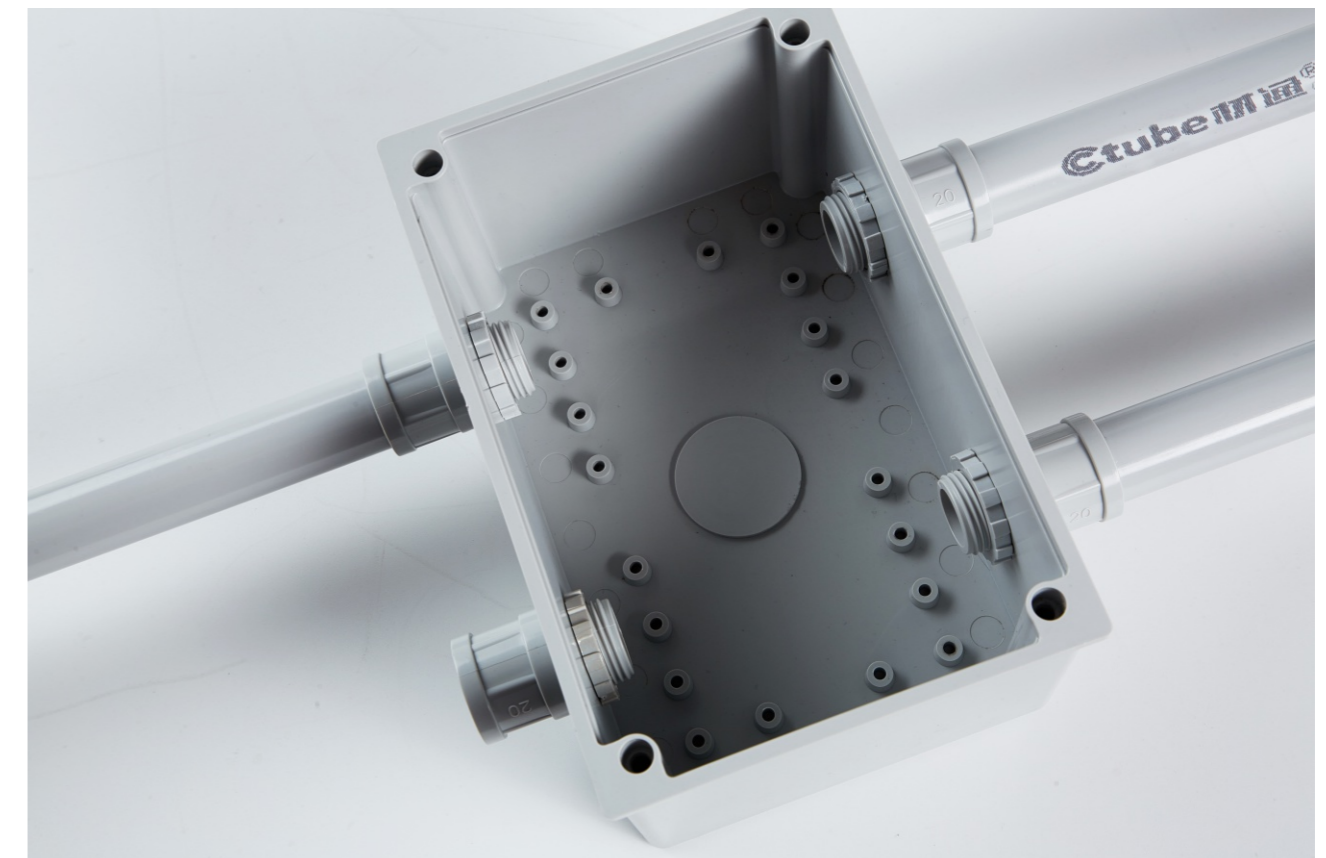
Standards:
IEC60754-2, IEC61034-2
IEC60670, IEC60529
ASTM E662, ISO19700, UI94



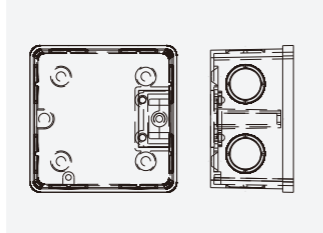
Properties

Ageing resistance	UV stabilized
Temperature range	-45 °C to +150 °C
IP ingress protection	IP67
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFPJB85	85*85*62	85	85	62	96
CT-HFPJB108	108*108*50	108	108	50	63
CT-HFPJB108	108*108*76	108	108	76	45
CT-HFPJB163	163*108*81	163	108	81	42
CT-HFPJB211	211*108*81	211	108	81	18
CT-HFPJB200	200*300*152	200	300	152	4
CT-HFPJB300	200*300*200	200	300	200	4



HF 1299 Single Switch box 77



Standards:
IEC60754-2, IEC61034-2
IEC60670, ASTM E662
ISO19700, UL94



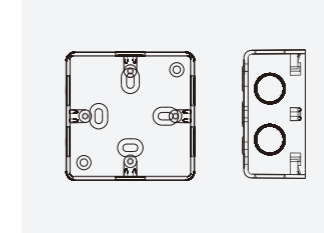
Properties

Ageing resistance	UV stabilized
Temperature range	-45°C to +150°C
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFS1299-77	77*77*43	77	77	43	200



HF CK Single Switch box



Standards:
IEC60754-2, IEC61034-2
IEC60670, ASTM E662
ISO19700, UI94

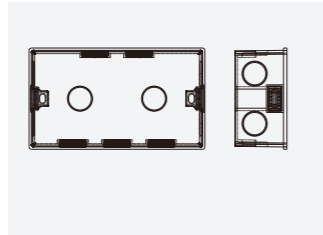


Properties

Ageing resistance	UV stabilized
Temperature range	-45°C to +150°C
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFCKS	86*86*42	86	86	42	

HF 1299 Double Switch box



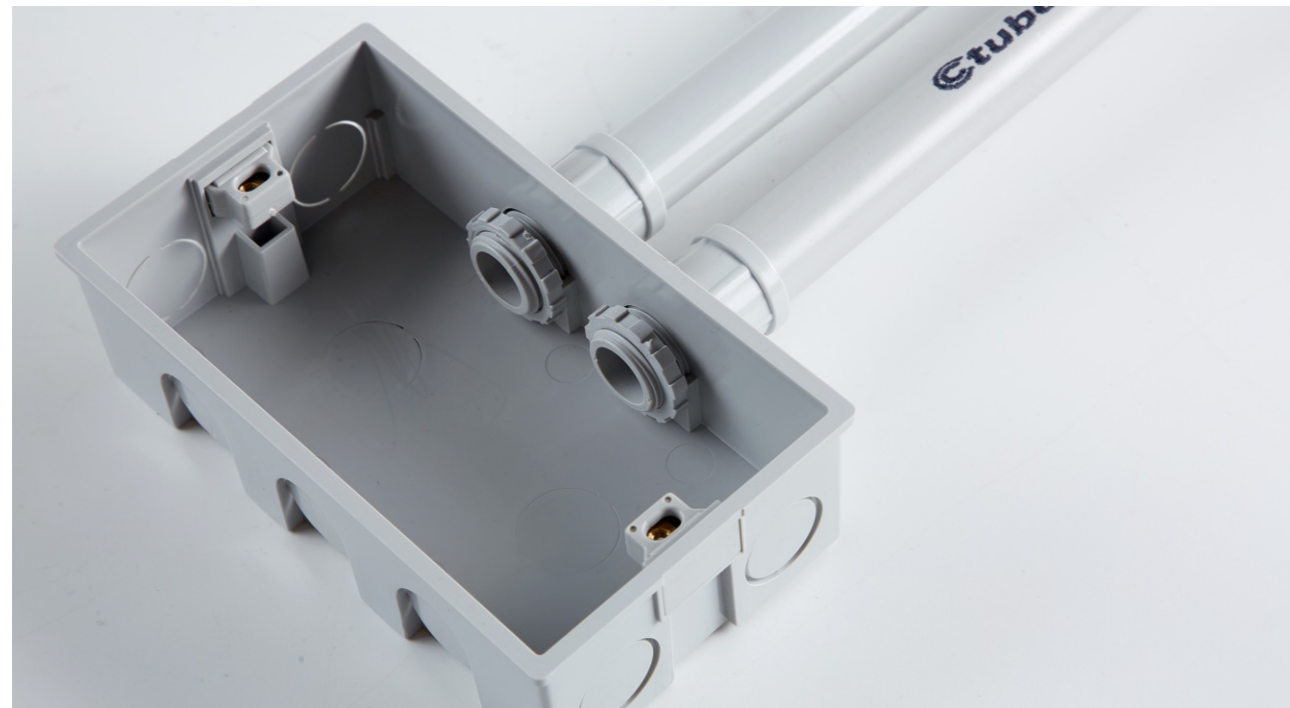
Standards:
IEC60754-2, IEC61034-2
IEC60670, ASTM E662
ISO19700, UI94



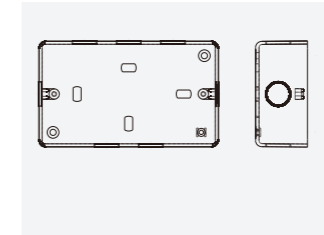
Properties

Ageing resistance	UV stabilized
Temperature range	-45°C to +150°C
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFD1299	86*143*42	86	143	42	120



HF CK Double Switch box



Standards:
IEC60754-2, IEC61034-2
IEC60670, ASTM E662
ISO19700, UI94



Properties

Ageing resistance	UV stabilized
Temperature range	-45°C to +150°C
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFCKD	86*146*42	86	146	42	120



HF Shallow junction box



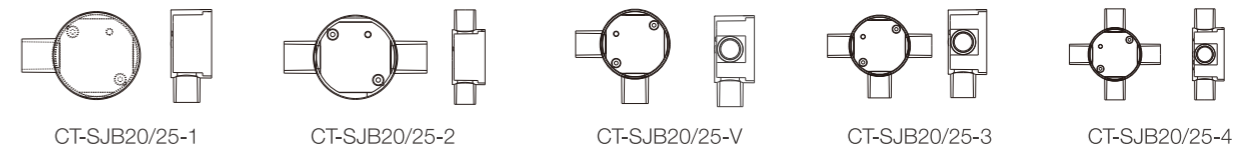
Standards:


IEC61386-1, IEC61386-21
IEC60754-2, IEC61034-2
ASTM E662, ISO19700, UI94



Properties

Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Ingress protection	Waterproof
Temperature range	-45℃ to +150℃
Electrical characteristics	with electrical insulated characteristics
Resistance to flame propagation	V0
Ageing resistance	UV stablized
Conduit alignment	Yes
Cover attachment	Screwed



Products code	Type	Width(mm)	Height(mm)		Package
CT-SJB20-1	∅20	64	43	10	140
CT-SJB20-2	∅20	64	43	10	112
CT-SJB20-V	∅20	64	43	10	140
CT-SJB20-3	∅20	64	43	10	84
CT-SJB20-4	∅20	64	43	10	84
CT-SJB25-1	∅25	64	43	10	140
CT-SJB25-2	∅25	64	43	10	112
CT-SJB25-V	∅25	64	43	10	140
CT-SJB25-3	∅25	64	43	10	84
CT-SJB25-4	∅25	64	43	10	84

HF Deep junction box

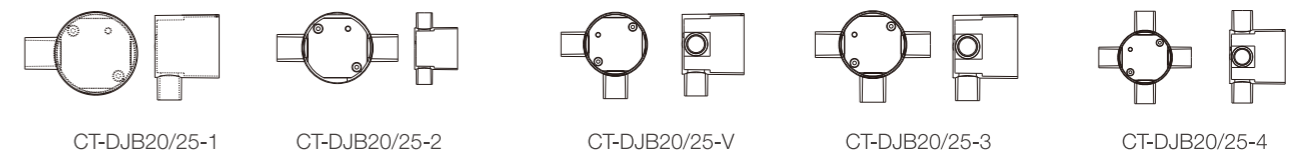


Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, IEC61034-2
 ASTM E662, ISO19700, UI94



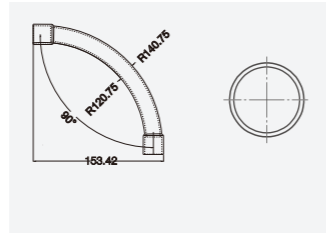
Properties

Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Ingress protection	Waterproof
Temperature range	-45 °C to +150 °C
Electrical characteristics	with electrical insulated characteristics
Resistance to flame propagation	V0
Ageing resistance	UV stablized
Conduit alignment	Yes
Cover attachment	Screwed



Products code	Type	Width(mm)	Height(mm)	Package
CT-DJB20-1	∅20	64	71	120
CT-DJB20-2	∅20	64	71	120
CT-DJB20-V	∅20	64	71	100
CT-DJB20-3	∅20	64	71	100
CT-DJB20-4	∅20	64	71	100
CT-DJB25-1	∅25	64	71	100
CT-DJB25-2	∅25	64	71	80
CT-DJB25-V	∅25	64	71	80
CT-DJB25-3	∅25	64	71	80
CT-DJB25-4	∅25	64	71	48

HF Bend



Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, IEC61034-2
 ASTM E662, ISO19700, UL94





Properties

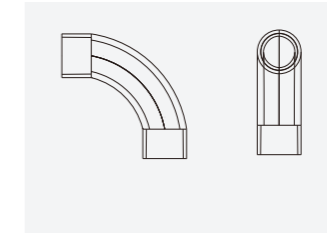
Resistance to compression	750Nt/5cm
Resistance to impact	6J
Ageing resistance	UV stablized
Color selection	White/Black/Grey

General properties for Bends

Temperature range	-45 °C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type			Package
CT-HFMDB20	∅20	25.2	20.2	180
CT-HFMDB25	∅25	30.0	25.2	135
CT-HFMDB32	∅32	36.5	32.0	
CT-HFMDB40	∅40	46.4	40.2	35
CT-HFMDB50	∅50	57.2	50.2	28

HF Solid Elbow





Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, IEC61034-2
 ASTM E662, ISO19700, UI94



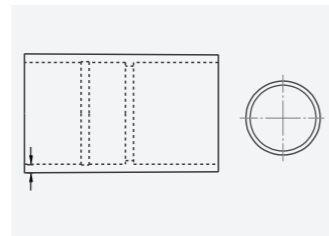
Properties

Ageing resistance	UV stablized
Temperature range	-45 °C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type			Package
CT-HFCE20	∅20	23.5	20.2	700
CT-HFCE25	∅25	28.5	25.2	400
CT-HFCE32	∅32	37.2	32.2	170



HF Couplers





Standards:
IEC61386-1, IEC61386-21
IEC60754-2, IEC61034-2
ASTM E662, ISO19700, UI94



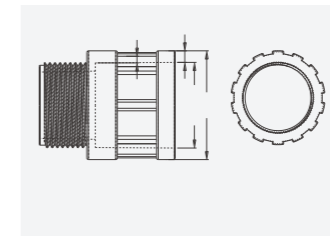
Properties

Ageing resistance	UV stabilized
Temperature range	-45 °C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type			Package
CT-HF20C	∅20	23.5	20	1000
CT-HF25C	∅25	28.5	25	600
CT-HF32C	∅32	37	32	300
CT-HF40C	∅40	44.5	40	224
CT-HF50C	∅50	55.6	50	126



HF Male Adaptor





Standards:
IEC61386-1, IEC61386-21
IEC60754-2, IEC61034-2
ASTM E662, ISO19700, UI94

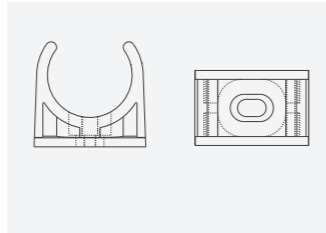


Properties

Ageing resistance	UV stabilized
Temperature range	-45 °C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type			Package
CT-HFA20	∅20	25.2	20.2	1000
CT-HFA25	∅25	32.2	25.2	720
CT-HFA32	∅32	39.2	32.2	360
CT-HFA40	∅40	47.2	40.2	210
CT-HFA50	∅50	57.2	50.2	120

HF Clips





Standards:
IEC60754-2, IEC61034-2
IEC61386-25, ASTM E662
ISO19700, UL94

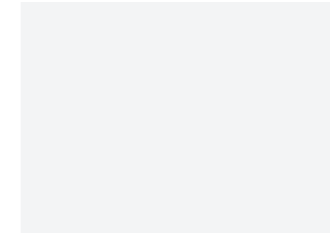


Properties

Ageing resistance	UV stabilized
Temperature range	-45 °C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type	 OD	 ID	Package
CT-HFC20	∅20	23.5	20	4000
CT-HFC25	∅25	28.5	25	2112
CT-HFC32	∅32	39	32	1600
CT-HFC40	∅40	47	40	840
CT-HFC50	∅50	58	50	432

Half Saddle with nail

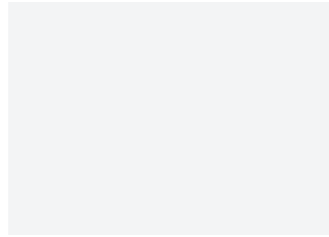


Properties

Raw material	Galvanized Steel
Thickness	1.1-1.2mm

Products code	Type	Package
CT-20FS	∅20	
CT-25FS	∅25	
CT-32FS	∅32	
CT-40FS	∅40	
CT-50FS	∅50	

Conduit Full Saddle



Properties

Raw material	Galvanized Steel
Thickness	1.1-1.2mm

Products code	Type	Package
CT-20FS	∅ 20	
CT-25FS	∅ 25	
CT-32FS	∅ 32	
CT-40FS	∅ 40	
CT-50FS	∅ 50	