



EMTECH® RANGE

Class 4 Conduit Systems

BS4568 / IEC61386 Class 4 hot dipped galvanised steel conduit pipe, conduit boxes, accessories, flexible conduit and installation tools.



HOT-DIPPED GALVANIZED • BOXES • FITTINGS

Batam, Indonesia

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01 Conduit Pipe

Class 4 hot dipped galvanised · Class 3 galvanised · BS4568 / IEC61386

PT. Mitramas Teknologi Indonesia offers a broad and comprehensive range of galvanised steel and brass conduit accessories that match the demands of any project using BS4568 / IEC61386 conduits. This catalogue sets out the product details for specifiers and M&E engineers, serving contractors and projects in Batam, Indonesia.

CLASS 4 • HOT DIPPED GALVANISED



CP-20-E / CP-25-E / CP-32-E

CLASS 3 • GALVANISED



CP-20-P / CP-25-P

EMTECH Brand Class 4 — Hot Dipped Galvanised Steel Conduit

Nominal Size (mm)	Outer Dia. Min (mm)	Outer Dia. Max (mm)	Wall Thickness ± (mm)	Weight per Length (kg)
20	19.7	20.0	1.6 ± 0.15	± 2.90
25	24.6	25.0	1.6 ± 0.15	± 3.70
32	31.6	32.0	1.6 ± 0.15	± 4.80

EMTECH Brand Class 3 — Galvanised Steel Conduit

Nominal Size (mm)	Outer Dia. Min (mm)	Outer Dia. Max (mm)	Wall Thickness ± (mm)	Weight per Length (kg)
20	19.7	20.0	1.6 ± 0.15	± 2.70
25	24.6	25.0	1.6 ± 0.15	± 3.40
32	31.6	32.0	1.6 ± 0.15	± 4.50

Standard length 3.75 m. Other lengths available upon request.

Epoxy Powder Coated

Conduits and accessories are available epoxy powder coated to suit your M&E services requirement.



COLOUR CHART • STANDARD COLOURS



Colours shown are only as close as the printing process will allow. Other colours available upon request.

02 Conduit Boxes

Hot-dipped galvanized fittings · BS4568 / IEC61386 Class 4



Terminal / 1 Way

CF-1W-20-E CF-1W-25-E
CF-1W-32-E



Through / 2 Way

CF-2W-20-E CF-2W-25-E
CF-2W-32-E



Angle

CF-AN-20-E CF-AN-25-E
CF-AN-32-E



Tee / 3 Way

CF-3W-20-E CF-3W-25-E
CF-3W-32-E



Cross / 4 Way

CF-4W-20-E CF-4W-25-E
CF-4W-32-E



Terminal / 1 Way with Hole

CF-1W-H-20-E CF-1W-H-25-E
CF-1W-H-32-E



Terminal / 1 Way with Back Outlet

CF-1W-BO-20-E CF-1W-BO-25-E

HOT-DIPPED GALVANIZED FITTINGS

BS4568 / IEC61386 CLASS 4

Conduit Boxes — Specification

FINISH	Hot-Dipped Galvanized
FIXING CENTRE	50.8 mm ± 0.5 mm
SIZE	20 mm, 25 mm, 32 mm

03 Conduit Pipe Accessories

Covers · saddles · sockets · K.O. box covers

Circular Conduit Box Cover

C-E



MATERIAL	Galvanized steel
FINISH	Hot-Dipped Galvanized
SIZES	Small: for use with 20 mm & 25 mm boxes

Note: Rubber gasket to suit above covers also available on order.

Circular Box Cover 32 mm

C-B



MATERIAL	Galvanized steel
FINISH	Hot-Dipped Galvanized
SIZE	Large: for use with 32 mm above sizes

Note: Rubber gasket to suit above covers also available on order.

Bar Saddle

SB-20-E

SB-25-E

SB-32-E



MATERIAL	Galvanized steel base and strap of G20 thickness
FINISH	Hot-Dipped Galvanized
SIZES	20 mm – 32 mm

Socket

S-20-E

S-25-E

S-32-E



MATERIAL	Galvanized steel
FINISH	Hot-Dipped Galvanized
SIZES	20 mm – 32 mm

Dome Cover (Screwed)

CF-DC-20-E

CF-DC-25-E



FINISH	Hot-Dipped Galvanized
FIXING	50.5 mm
SIZES	20 mm, 25 mm

Socket Joint

SJ-20

SJ-25



MATERIAL	Galvanized steel
FINISH	Galvanized
SIZES	20 mm, 25 mm

K.O. Box Cover – 1 Gang

KOC1



MATERIAL	Steel
FINISH	Plain or Hot Dipped Galvanized

K.O. Box Cover – 2 Gang

KOC2



MATERIAL	Steel
FINISH	Plain or Hot Dipped Galvanized

03 Conduit Pipe Accessories

Saddles · reducers · plugs · locknuts · bushes

Plain Saddle

PS-25-HD PS-32-HD



FINISH Hot Dipped Galvanized
SIZES 20 mm – 32 mm

Reducer

CF-R-20X25-E CF-R-25X32-E



MATERIAL Brass / Alloy
FINISH Galvanized
SIZES 25 mm to 20 mm, 32 mm to 25 mm

Stop Plugs

SP-20-B SP-25-B

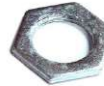


FINISH Brass
SIZES 20 mm – 32 mm

Note: larger size plugs also available upon request.

Locknuts – Hexagon

LN-20 LN-25 LN-32 LN-20-B
LN-25-B LN-32-B



MATERIAL Steel / Brass
FINISH Galvanized
SIZES 20 mm – 32 mm

Male Bush – Hexagon Head, Long Type

MB-20-BS-L MB-25-BS-L
MB-32-BS-L



FINISH Brass
SIZES 20 mm – 32 mm

Male Bush – Hexagon Head, Short Type

MB-20-BS MB-25-BS MB-32-BS



FINISH Brass
SIZES 20 mm – 32 mm

NEED SOMETHING ELSE?

Other sizes, lengths and finishes are available upon request.

Contact us and we will assist to find the right fittings for your project.

www.mitramas.tech
enquiries@mitramas.tech

04 Knock-Out (KO) Boxes

Steel switch & socket boxes • BS4662



BS4662 STANDARD RANGE

KO1E

Steel Switch & Socket Box – 1 Gang

MATERIAL	Galvanized Steel Sheet
FINISH	Galvanized
DIMENSION	75 x 75 x 35 mm
FIXING CENTRE	60.3 mm to suit standard BS switch & socket outlets

Tapped earth hole at base of box



BS4662 STANDARD RANGE

KO2E

Steel Switch & Socket Box – 2 Gang

MATERIAL	Galvanized Steel Sheet
FINISH	Galvanized
DIMENSION	135 x 75 x 35 mm
FIXING CENTRE	120.6 mm to suit standard BS switch & socket outlets

Tapped earth hole at base of box



CIVIL DEFENCE

KO1-CD-HD

1G Hot Dipped CD Shelter Box

MATERIAL	Steel Sheet
FINISH	Hot Dipped Galvanized
DIMENSION	75 x 75 x 35 mm
FIXING CENTRE	60.3 mm to suit standard BS switch & socket outlets

Tapped earth hole at base of box



CIVIL DEFENCE

KO2-CD-HD

2G Hot Dipped CD Shelter Box

MATERIAL	Steel Sheet
FINISH	Hot Dipped Galvanized
DIMENSION	135 x 75 x 35 mm
FIXING CENTRE	120.6 mm to suit standard BS switch & socket outlets

Tapped earth hole at base of box

05 Flexible Conduit

PVC-coated galvanized · steel flexible conduit



PVC COATED GALVANIZED

Flexible conduit fitted with a flexible adapter

PCF

Features

- Water resistant, with maximum protection against most liquids and solid particles
- High temperature heat resistance and self extinguishing black PVC sheathing
- Manufactured to withstand vibrations of installations and equipment
- Flexibility in installation
- Wide range of conduit sizes

Applications

Provides maximum protection of cables in installation against ingress of solid particles and liquids. It can be installed in most electrical applications where a good protective support for cables is needed. Used in areas as diverse as building automation systems, underfloor, machinery, air-con controls, lightning and power circuit installations and many other applications where good electrical support systems are needed.

Catalogue Numbers

Catalogue Number	Outgoing G.I. Conduit Size (inch)	Length per Coil (ft)
PCF16	5/8"	100
PCF20	3/4"	100
PCF25	1"	100
PCF32	1¼"	50
PCF38	1½"	50
PCF50	2"	50
PCF63	2½"	30
PCF75	3"	30
PCF100	4"	30



FLEXIBLE STEEL CONDUIT

FP

MATERIAL	Galvanized steel
FINISH	Plain galvanized – unmarked
SIZES	3/4", 1", 1¼", 1½", 2"

Steel flexible conduit offers good mechanical protection when compared against uPVC type.

05 Flexible Conduit

Low smoke covered conduit • flexible adaptors



EMTECH – LOW SMOKE COVERED

Low Smoke Covered Flexible Conduit

PCF-LSOH

USAGE	Ideal for use in areas where fire is of particular concern
PROPERTIES	Resistance to flame, low (toxicity, smoke density)
PSB TEST	IEC 61034 Part 2

Item Number	Nominal Size	Length of Each Roll (ft)
PCF16-LSOH	16 mm	100
PCF20-LSOH	20 mm	100
PCF25-LSOH	25 mm	100

Item Number	Nominal Size	Length of Each Roll (ft)
PCF32-LSOH	32 mm	50
PCF38-LSOH	38 mm	50
PCF50-LSOH	50 mm	50

Flexible Adaptors



Flexible Adaptors

CF-BA

FINISH	Brass c/w retaining screw
SIZES	3/4" x 5/8", 3/4" x 3/4", 1" x 3/4", 1" x 1", 1 1/4" x 1 1/4", 1 1/2" x 1 1/2", 2" x 2", 20 x 5/8, 20 x 3/4, 25 x 3/4, 25 x 1



Nickel Plated Flexible Adaptors

EM

FINISH	Nickel plated
SIZES	3/4" x 5/8", 3/4" x 3/4", 1" x 3/4", 1" x 1", 1 1/4" x 1 1/4", 1 1/2" x 1 1/2", 2" x 2", 20 x 5/8, 20 x 3/4, 25 x 3/4, 25 x 1



MI Flexible Adaptors

MI

MATERIAL	Malleable iron
SIZES	16 mm, 20 mm, 25 mm, 32 mm, 38 mm, 50 mm
Larger sizes also available upon request.	

06 Other Tools & Accessories

Installation tools • bending • threading • cutting



Cable Roller



Conduit Pipe Bender



Heavy Duty Conduit Pipe Bender

Heavy metal plate



Automatic Die Set

3/4" die • 1" die • 20 mm die • 25 mm die



Drill Bit



Hole Saw



Nylon Wall Plug



Spray Paint

06 Other Tools & Accessories

Brackets · clips · supports · consumables



Beam Clamp

Product Code	Threaded Rod Dia.	Beam Thickness (mm)
BC-10	3/8" / M10	20 mm max
BC-10-B	3/8" / M10	26 mm max
BC-12	M12	26 mm max



C-Bracket



L-Bracket



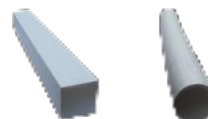
Hanging Rod



Spring-Clip



Kon-Clip



Polyfoam



PVC Junction Box



Masking Tape / PVC Tape / Colour Band



PT. MitraMas Teknologi Indonesia

GET IN TOUCH

Contact Us

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