

SMART[®]

Your Trusted Partner in Electrical & Mechanical Support

ELECTRICAL METALLIC TUBING EMT CONDUITS & ACCESSORIES CATALOGUE

EMT STEEL CONDUITS

CONDUIT FITTINGS
& ACCESSORIES

FLEXIBLE METAL & LIQUID-TIGHT
CONDUIT SYSTEMS



SINGAPORE
BRAND

2025 Edition 1.0

Built for Harsh Conditions
Trusted for Performance
Designed with Precision

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Industrial EMT Conduit Installation (For Illustration Only)

INTRODUCTION

Your Trusted Partner in Electrical & Mechanical Support



Reliable Partner in Conduit Solutions Since 1996



SMARTr® International is a Singapore-based manufacturer specializing in electrical containment solutions such as **Electrical Metallic Tubing (EMT)**, **conduit fittings**, and **support systems**, serving the region since 1996. Certified under **ISO 9001:2015** and **ISO 14001:2015**, we are committed to delivering industry-compliant, quality-assured solutions across Southeast Asia, Middle East and international markets.

Our production process follows strict QC protocols from raw material selection to final inspection, ensuring **dimensional consistency**, **smooth inner surfaces**, **corrosion resistance**, and long-term reliability.

In addition to EMT solutions, we also offer **DfMA-ready solutions** and a range of complementary products such as **BS standard conduits**, **strut channels**, **metal framing systems**, **trunking**, **cable trays**, and **ladder systems** to meet broader project needs.

SMARTr EMT conduit solutions are trusted and widely used in major infrastructure, commercial, and industrial projects throughout Singapore and international markets.

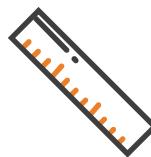
Why Is SMARTr EMT Conduit Better?



High quality mild steel which ensures superior bending and forming properties



Manufactured by cold forming and high frequency welding



Dimensionally accurate with uniform quality



Each Length distinctly marked with embossed branding



Conduits are securely packed and bundled to ensure easy handling and maximum protection

ELECTRICAL METALLIC TUBING EMT CONDUITS

EMT CONDUITS (UL 797 & ANSI C80.3)

E545784



Electrical Metallic Tubing (EMT) is a lightweight yet strong steel raceway solution designed to provide exceptional mechanical protection for electrical wiring. Commonly referred to as "thin-wall conduit," EMT features a thinner wall than rigid conduit while maintaining excellent durability.

Manufactured from high-grade mild steel, EMT conduits offers ease of bending and installation, making it the preferred choice for commercial, industrial, and infrastructure projects. Its smooth interior surface ensures reduced wire friction, facilitating faster pull-through and improved efficiency.

SMARTr EMT is available in a full range of sizes from 1/2" to 4", with hot-dipped galvanized or electro-galvanized finishes, and complies strictly with UL 797 and ANSI C80.3 standards.

CHARACTERISTICS & APPLICATIONS

- Manufactured in accordance with **UL 797** and **ANSI C80.3** standards.
- High-strength mild steel construction ensures superior mechanical protection.
- Lightweight and easy to handle, ideal for fast and efficient installation.
- Smooth interior surface for effortless wire pulling and reduced friction.
- Available with electro-galvanized or hot-dipped galvanized finishing for enhanced corrosion resistance.
- Widely used in commercial, industrial, and infrastructure projects, including regions with challenging environmental conditions.

HOT-DIPPED GALVANIZED EMT CONDUIT (UL 797 / ANSI C80.3 STANDARD)

ITEM CODE	SIZE	OUTSIDE DIAMETER	WALL THICKNESS	LENGTH
ECP-12-4-SMTR	1/2"	16mm	0.706"	17.93mm
ECP-34-4-SMTR	3/4"	21mm	0.922"	23.42mm
ECP-1-4-SMTR	1"	27mm	1.163"	29.54mm
ECP-114-4-SMTR	1 1/4"	35mm	1.510"	38.35mm
ECP-112-4-SMTR	1 1/2"	41mm	1.740"	44.20mm
ECP-2-4-SMTR	2"	53mm	2.197"	55.82mm

ELECTRO-GALVANIZED EMT CONDUIT (UL 797 / ANSI C80.3 STANDARD)

ITEM CODE	SIZE	OUTSIDE DIAMETER	WALL THICKNESS	LENGTH
ECP-12-3-SMTR	1/2"	16mm	0.706"	17.93mm
ECP-34-3-SMTR	3/4"	21mm	0.922"	23.42mm
ECP-1-3-SMTR	1"	27mm	1.163"	29.54mm
ECP-114-3-SMTR	1 1/4"	35mm	1.510"	38.35mm
ECP-112-3-SMTR	1 1/2"	41mm	1.740"	44.20mm
ECP-2-3-SMTR	2"	53mm	2.197"	55.82mm

APPLICATION TOLERANCES OF EMT CONDUITS:

Outside Diameter : ± 0.005 in (0.13mm)
Wall Thickness : $(\pm) 5-10\%$
Length : ± 0.25 " (6.4mm)
Standard : Complies with UL 797 / ANSI C80.3 Standard
Available Finishing : Electro-Galvanized or Zinc Coated Hot-Dipped Galvanized
UL File Number : E545784

**The wall thickness shall not vary more than 0.003" (0.08mm) throughout a 10ft length

**Sizes for 2 1/2" ~ 4" are available upon request.

FEATURES OF SMART[®] EMT CONDUIT:

- EMT conduits are sometimes called thin wall conduits
- Unthreaded, making it easy to couple and for a faster installation
- Light and easy to carry and handle
- Superior quality finish and good standard export packing

ELECTRICAL METALLIC TUBING EMT CONDUIT FITTINGS

EMT FITTINGS

EMT SET-SCREW COUPLING

ITEM CODE	SIZE
ECF-12-SC	1/2"
ECF-34-SC	3/4"
ECF-1-SC	1"
ECF-114-SC	1 1/4"
ECF-112-SC	1 1/2"
ECF-2-SC	2"



**Available in Zinc Alloy (Die-Cast) or Steel, based on client's requirement.
** Screws supplied in Steel material.

EMT COMPRESSION COUPLING

ITEM CODE	SIZE
ECF-12-CC	1/2"
ECF-34-CC	3/4"
ECF-1-CC	1"
ECF-114-CC	1 1/4"
ECF-112-CC	1 1/2"
ECF-2-CC	2"



**Available in Zinc Alloy (Die-Cast) or Steel, based on client's requirement.

EMT 45 DEGREE ELBOW

ITEM CODE	SIZE
ECF-12-45 ELB	1/2"
ECF-34-45 ELB	3/4"
ECF-1-45 ELB	1"
ECF-114-45 ELB	1 1/4"
ECF-112-45 ELB	1 1/2"
ECF-2-45 ELB	2"



**Available in Steel only.

EMT 1 HOLE STRAP

ITEM CODE	SIZE
ECF-12-STRAP-1H	1/2"
ECF-34-STRAP-1H	3/4"
ECF-1-STRAP-1H	1"
ECF-114-STRAP-1H	1 1/4"
ECF-112-STRAP-1H	1 1/2"
ECF-2-STRAP-1H	2"



**Available in Steel only.

CONDUIT PIPE CLAMP

ITEM CODE	SIZE
ECF-12-PCLAM	1/2"
ECF-34-PCLAM	3/4"
ECF-1-PCLAM	1"
ECF-114-PCLAM	1 1/4"
ECF-112-PCLAM	1 1/2"
ECF-2-PCLAM	2"



**Available in Steel only.

EMT INSULATED BUSHING

ITEM CODE	SIZE
ECF-12-BUSH	1/2"
ECF-34-BUSH	3/4"
ECF-1-BUSH	1"
ECF-114-BUSH	1 1/4"
ECF-112-BUSH	1 1/2"
ECF-2-BUSH	2"



**Available in Zinc Alloy (Die-Cast) only.

EMT SET-SCREW CONNECTOR

ITEM CODE	SIZE
ECF-12-SCN	1/2"
ECF-34-SCN	3/4"
ECF-1-SCN	1"
ECF-114-SCN	1 1/4"
ECF-112-SCN	1 1/2"
ECF-2-SCN	2"



**Available in Zinc Alloy (Die-Cast) or Steel, based on client's requirement.
** Screws supplied in Steel material.

EMT COMPRESSION CONNECTOR

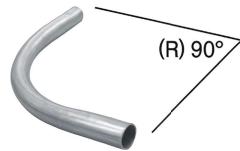
ITEM CODE	SIZE
ECF-12-CCN	1/2"
ECF-34-CCN	3/4"
ECF-1-CCN	1"
ECF-114-CCN	1 1/4"
ECF-112-CCN	1 1/2"
ECF-2-CCN	2"



**Available in Zinc Alloy (Die-Cast) or Steel, based on client's requirement.

EMT 90 DEGREE ELBOW

ITEM CODE	SIZE
ECF-12-90 ELB	1/2"
ECF-34-90 ELB	3/4"
ECF-1-90 ELB	1"
ECF-114-90 ELB	1 1/4"
ECF-112-90 ELB	1 1/2"
ECF-2-90 ELB	2"



**Available in Steel only.

EMT 2 HOLE STRAP

ITEM CODE	SIZE
ECF-12-STRAP-2H	1/2"
ECF-34-STRAP-2H	3/4"
ECF-1-STRAP-2H	1"
ECF-114-STRAP-2H	1 1/4"
ECF-112-STRAP-2H	1 1/2"
ECF-2-STRAP-2H	2"



**Available in Steel only.

CONDUIT PIPE HANGER

ITEM CODE	SIZE
ECF-12-PHGR	1/2"
ECF-34-PHGR	3/4"
ECF-1-PHGR	1"
ECF-114-PHGR	1 1/4"
ECF-112-PHGR	1 1/2"
ECF-2-PHGR	2"



**Available in Steel only.

Available Finishing Standards Sizes : Hot-Dipped Galvanized / Zinc Electro-Galvanized
: Complies with UL 514B / UL 2239
: 2 1/2" ~ 4" sizes are available upon request
(Made to order, MOQ and lead time apply)

FLEXIBLE METAL CONDUITS & FITTINGS



FLEXIBLE METAL CONDUITS

SMART[®] flexible metal conduit protects electrical cables from vibration, movement, and mechanical impact, reducing the risk of electrical hazards and cable damage. Made from high-quality galvanized steel, it offers excellent flexibility, durability, and a smooth inner surface for easy cable pulling. Ideal for general wiring in commercial, industrial, and residential applications, including oil & gas, marine, aviation, healthcare, data centres, machinery, and transport industries.

ITEM CODE	TRADE SIZE	PACKING	OUTSIDE DIAMETER	INSIDE DIAMETER	MIN. BEND RADIUS
EFP-12-S	1/2"	100ft	21.84-23.37 mm	15.88-16.38mm	75mm
EFP-34-S	3/4"	100ft	26.54-28.07 mm	20.62-21.21mm	100mm
EFP-1-S	1"	100ft	33.02-35.05 mm	25.40-26.42mm	125mm
EFP-114-S	1 1/4"	50ft	39.37-41.40 mm	31.75-33.02mm	160mm
EFP-112-S	1 1/2"	50ft	46.99-49.53 mm	38.10-40.01mm	190mm
EFP-2-S	2"	25ft	59.69-62.23 mm	50.80-52.83mm	255mm

Flexible Material Properties	: Hot-Dipped Galvanized (HDG) Steel or Electro-Galvanized Steel
Temperature Range	: Provides flexible mechanical protection for electrical wiring -25°C to +350°C (Metallic sheath withstands higher temperatures if required)
IP Rating	: IP40 (standard fittings)
Construction	: Corrugated galvanized steel conduit for flexibility and mechanical strength
Features	: Suitable for dry indoor wiring in commercial, industrial, and residential applications
Standard	: Complies with UL 1

**Minimum Bend Radius is provided as a reference for safe installation practices.

For applications requiring tighter bends or special conditions, please contact SMART[®] technical support for guidance.

STRAIGHT SQUEEZE CONNECTOR

ITEM CODE	SIZE
EFA-12-SQC	1/2"
EFA-34-SQC	3/4"
EFA-1-SQC	1"
EFA-114-SQC	1 1/4"
EFA-112-SQC	1 1/2"
EFA-2-SQC	2"



Material Standards : Zinc Alloy (Die-Cast)
: Complies with UL 514B

** Sizes for 2 1/2" ~ 4" are available upon request.

* Screws supplied in Steel material.

FLEX TO FLEX COUPLING

ITEM CODE	SIZE
EFC-12	1/2"
EFC-34	3/4"
EFC-1	1"
EFC-114	1 1/4"
EFC-112	1 1/2"
EFC-2	2"



Material Standards : Zinc Alloy (Die-Cast)
: Complies with UL 514B

** Sizes for 2 1/2" ~ 4" are available upon request.

FLEXIBLE TO EMT COUPLING

ITEM CODE	SIZE
EFA-12	1/2"
EFA-34	3/4"
EFA-1	1"
EFA-114	1 1/4"
EFA-112	1 1/2"
EFA-2	2"



Material Standards : Zinc Alloy (Die-Cast)
: Complies with UL 514B

** Sizes for 2 1/2" ~ 4" are available upon request.

* Screws supplied in Steel material.

LIQUID-TIGHT FLEXIBLE METAL CONDUITS & FITTINGS



LIQUID-TIGHT FLEXIBLE METAL CONDUITS

SMART® Liquid-Tight Flexible Conduits provides superior protection for electrical wiring in harsh environments exposed to moisture, oil, dust, and mechanical stress. The conduit consists of a flexible galvanized steel core covered with a durable, waterproof PVC outer jacket, delivering excellent corrosion resistance and liquid-tight performance. This conduit is ideal for both indoor and outdoor applications, including machinery, HVAC systems, and industrial equipment, where flexibility and environmental protection are required.

ITEM CODE	TRADE SIZE	PACKING	OUTSIDE DIAMETER	INSIDE DIAMETER	MIN. BEND RADIUS
EFP-12-PC-LT	1/2"	100ft	22.0±0.45mm	16mm	65mm
EFP-34-PC-LT	3/4"	100ft	26.7±0.50mm	20mm	75mm
EFP-1-PC-LT	1"	100ft	31.9±0.50mm	25mm	100mm
EFP-114-PC-LT	1 1/4"	50ft	40.6±0.60mm	32mm	120mm
EFP-112-PC-LT	1 1/2"	50ft	47.0±0.70mm	38mm	140mm
EFP-2-PC-LT	2"	50ft	59.0±0.70mm	50mm	180mm

Flexible Material Properties : Steel (Corrugated PVC Jacket)
Temperature Range : Provides durable protection for electrical wiring
-20°C to +105°C
IP Rating : IP65 (with proper liquid-tight fittings)
Construction : Flexible steel core with PVC outer jacket for easy installation and smooth cable pulling
Features : Ideal for general wiring in industrial, commercial, and outdoor environments



LIQUID/WATER TIGHT MALE ADAPTOR (EFA-WT)

ITEM CODE	UL TRADE SIZE	METRIC SIZE
EFA-WT-20X16	3/4" X 1 1/2"	20mm X 16mm
EFA-WT-20X20	3/4" X 3/4"	20mm X 20mm
EFA-WT-25X20	1" X 3/4"	25mm X 20mm
EFA-WT-25X25	1" X 1"	25mm X 25mm
EFA-WT-32X32	1 1/4" X 1 1/4"	32mm X 32mm
EFA-WT-38X38	1 1/2" X 1 1/2"	38mm X 38mm

Material: Steel / Alloy

Finishing: Galvanized

IP Rating: IP65

**Angle Adaptor available for order. Made to order, MOQ and lead time apply.

**Sizes for 2 1/2" ~ 4" are available upon request.



LIQUID/WATER TIGHT FEMALE ADAPTOR (EFFA-WT)

ITEM CODE	UL TRADE SIZE	METRIC SIZE
**EFFA-WT-20X16	3/4" X 1/2"	20mm X 16mm
**EFFA-WT-20X20	3/4" X 3/4"	20mm X 20mm
**EFFA-WT-25X20	1" X 3/4"	25mm X 20mm
**EFFA-WT-25X25	1" X 1"	25mm X 25mm
**EFFA-WT-32X32	1 1/4" X 1 1/4"	32mm X 32mm
**EFFA-WT-38X38	1 1/2" X 1 1/2"	38mm X 38mm

Material: Steel / Alloy

Finishing: Galvanized

IP Rating: IP65

**Made to order, MOQ and lead time apply.

**Sizes for 2 1/2" ~ 4" are available upon request.

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