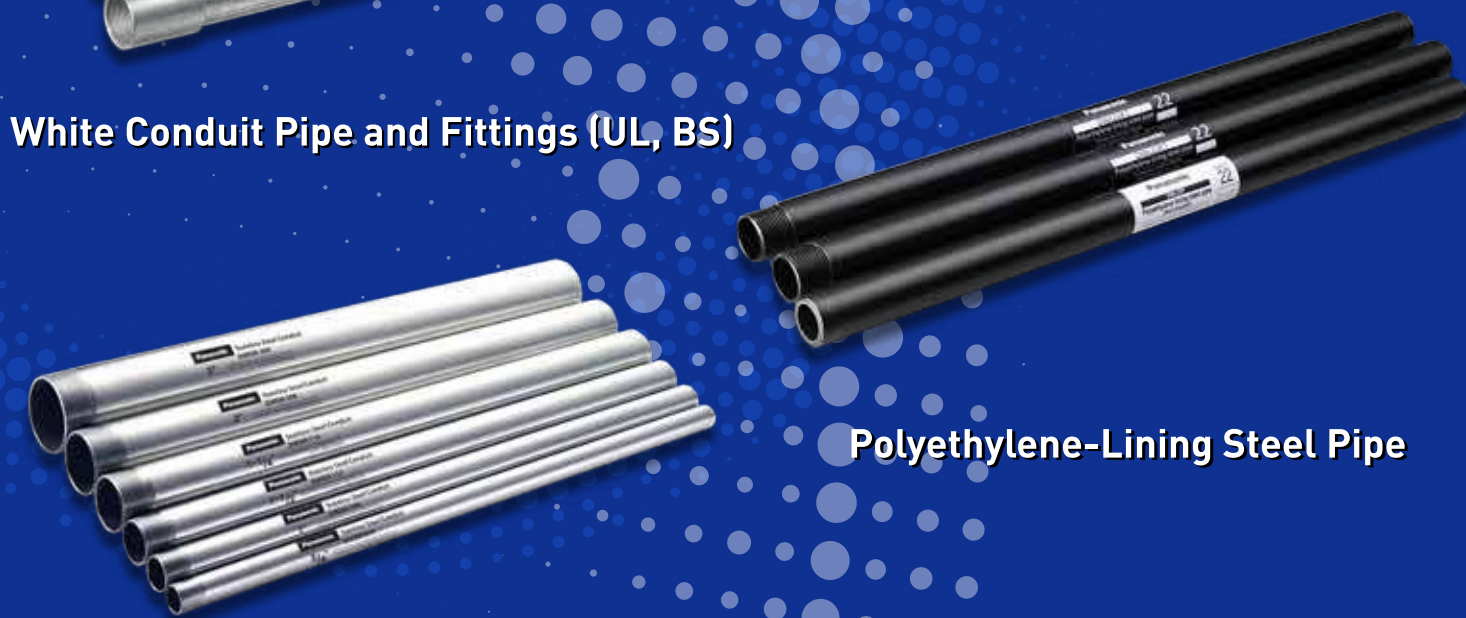


White Conduit (JIS)

White Conduit Pipe and Fittings (UL, BS)



Polyethylene-Lining Steel Pipe

Stainless Steel Pipe

Please contact:

Panasonic[®]

Panasonic SPT (Thailand) Co., Ltd.
 ■ 51/4 Moo 2 Poochaosamingprai Rd., Bangyaprak, Phrapradaeng,
 Samutprakarn, Thailand 10130
 ■ Telephone: 0-2384-0038 ■ Facsimile: 0-2384-2752, 0-2384-2778
Panasonic Corporation Life Solutions Company



Certificate No. TH98/4954



Certificate No. TH99/6248

Certificates

ISO 9001 & ISO 14001



Certificate No. TH98/4954



Certificate No. TH99/6248

Certification Acquired Worldwide



UL 797 (EMT)



UL 1242 (IMC)



UL 6 (RSC)



UL 1 (FLEXIBLE METAL CONDUIT)



UL 514B (UL Fittings)



TIS770 (EMT/IMC/RSC)

Compliances



BS31



BS4568 CLASS4



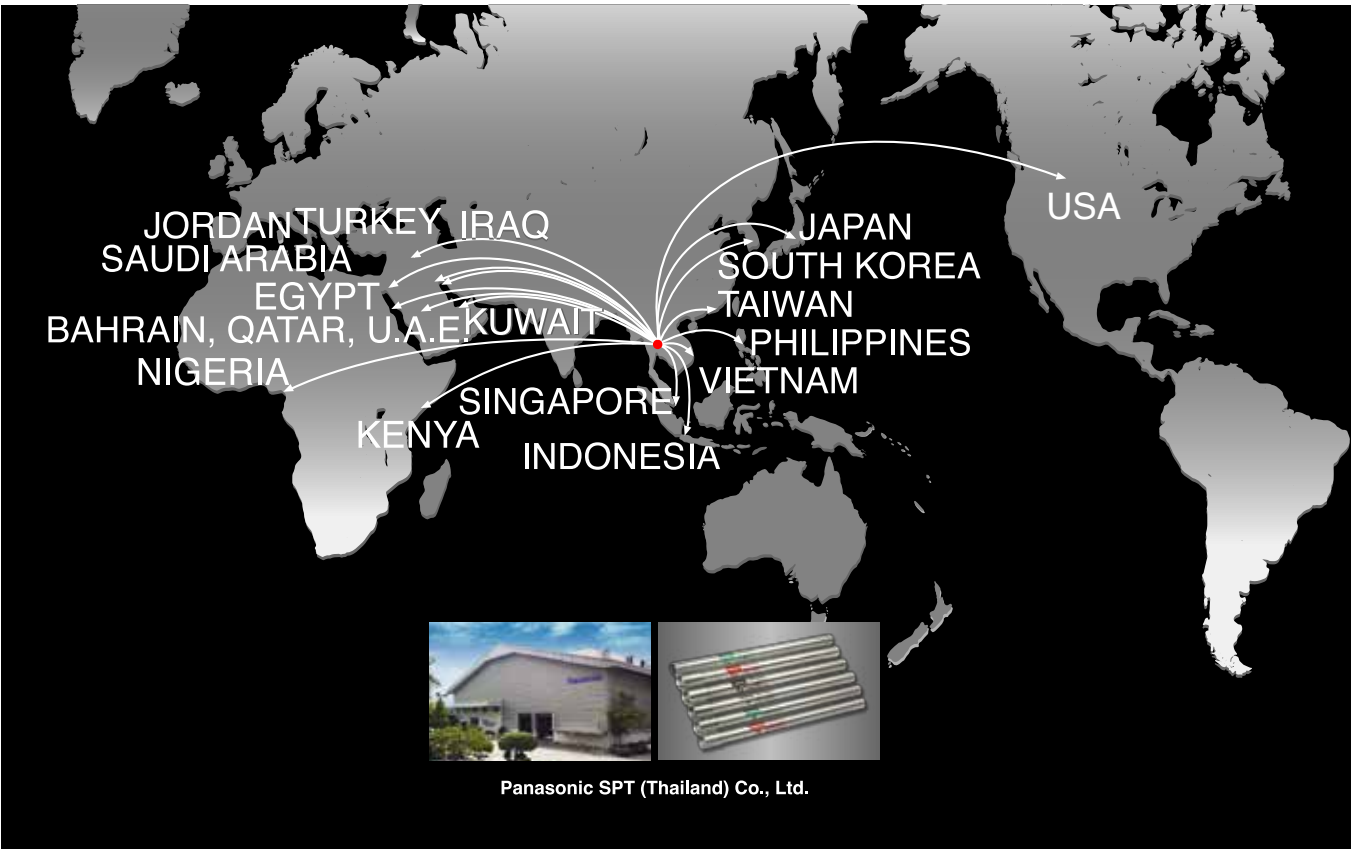
BS4568 CLASS3



KS C8401 (E&G Conduit)

Sales

We are proud of our sales records both in Thailand and export to overseas to South-East and North-East Asia, Middle East, Africa, Europe, and USA

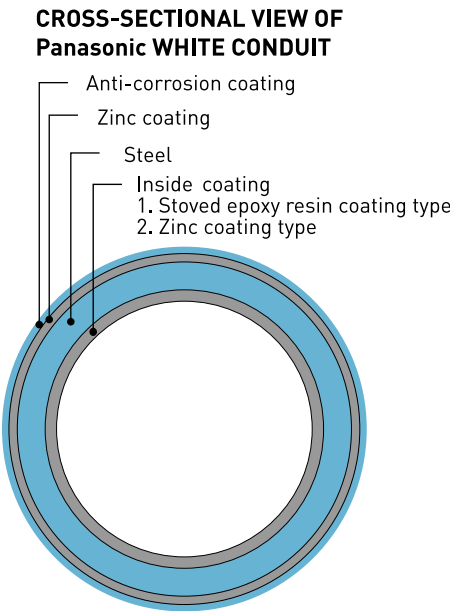


Outstanding Features of Panasonic White Conduit

Superior galvanizing by in-line hot-dip process for greater protection against corrosion. Finished with durable and clear anti-corrosion coating for higher protection outside and higher grade epoxy coating inside.

Features

- 1) Easy and accurate bending**
Panasonic White Conduit is made of high quality steel and processed by high frequency induction welding to prevent cracking when bend.
- 2) Easy wire pushing and pulling**
The high-grade stoved epoxy resin coating on the inside wall makes wire-pulling easy, and protects against corrosion.
- 3) Easy coupling and fast installation**
Precise, sharp threads cut by automated machinery means fast and easy installation. Precise thread also makes our conduit virtually moisture-tight.
- 4) High corrosion resistance**
Pure zinc coating on the exterior wall and stoved epoxy resin finish on the inside protects WHITE CONDUIT from corrosion, even by harsh chemicals and sea air.
- 5) Uniform quality**
Flat steel is rolled, zinc-coated and threaded in one continuous automated process for uniform high quality.



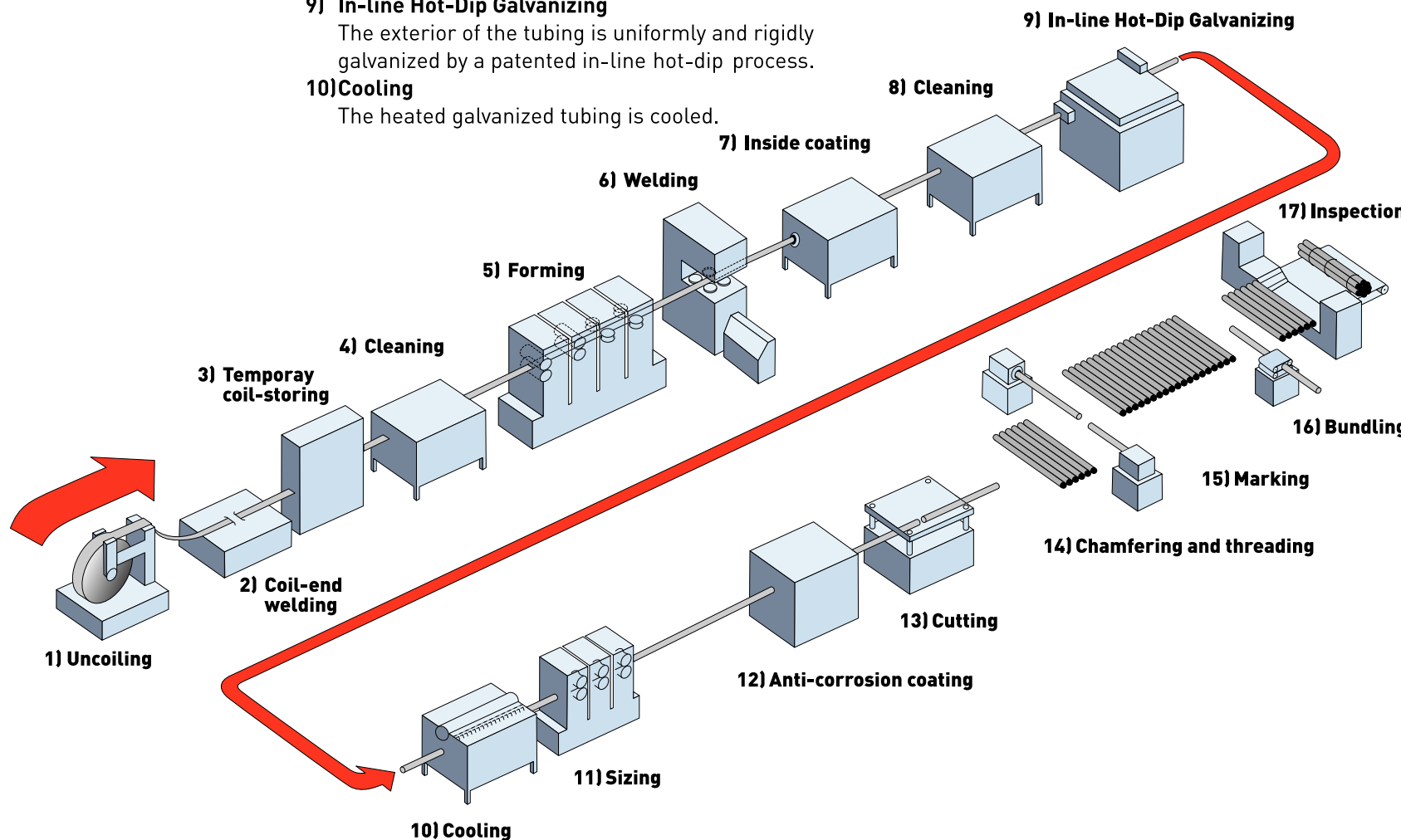
Standards

Panasonic WHITE CONDUIT is available in five types conforming to the following standard:
*UL/ANSI (EMT, IMC and RSC)
*BS (BS31-1940 and BS4568-1970)
*TIS770
*JIS (Plain, Thin Wall and Thick Wall)
*KS (Plain and Thick Wall)



Flow Chart of Manufacturing Process

- 1) Uncoiling**
High quality strip steel coils are uncoiled and sent to the forming mills.
- 2) Coil-end welding**
Both ends of the coils are welded to form a single strip.
- 3) Temporary coil-storing**
Strip steel is stored here temporarily for coil end welding without stopping the main line.
- 4) Cleaning**
All surface scale and oil on the strip steel are removed to assure accurate forming and rigid welding.
- 5) Forming**
The flat strip steel is rolled into basic tubing.
- 6) Welding**
Basic tubes are welded by a high frequency induction welder. This type of welding assures rigidity, splitting-resistance and effectively eliminates inside flash.
- 7) Inside coating**
The inside wall of the conduit is coated with epoxy resin.
- 8) Cleaning**
All surface scale and oil are removed from the tubing before galvanizing.
- 9) In-line Hot-Dip Galvanizing**
The exterior of the tubing is uniformly and rigidly galvanized by a patented in-line hot-dip process.
- 10) Cooling**
The heated galvanized tubing is cooled.
- 11) Sizing**
The cooled, galvanized tubing is rolled to precise outside diameters in accordance with customer specifications.
- 12) Anti-corrosion coating**
For protection in addition to zinc coating, the galvanized surface is finished with a clear anticorrosion coating.
- 13) Cutting**
Tubing is square-cut to the specified lengths.
- 14) Chamfering and threading**
Both ends of the cut conduit are chamfered and threaded to precise tolerance.
- 15) Marking**
Brand name, size, standards, production codes, etc. are marked on the conduit.
- 16) Bundling**
Finished conduit is steel strapped into approximately one metric ton bundle.
- 17) Inspection**
At all steps of production, strict quality control is enforced. Unless customer specifies UL, or other certificates, all conduit is inspected according to factory specifications.



Outstanding Quality of Panasonic

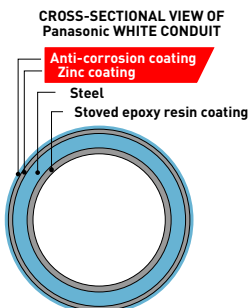
EMT,BS4568 CLASS 3 Conduit

1. Superb OUTSIDE Surface!

2 Layers Coating Technology by Panasonic

• Copper sulphate

Outside coating : Coated with zink by in-line galvanizing process which makes our coating better. Moreover, we have final anti-corrosion coating for additional protection.



OUTSIDE SURFACE
Zn (inline hotdip)



OUTSIDE SURFACE
Zn (inline hotdip)



Test Std : UL797 Clause 6.2.2 (Protective Zinc coating)
Criteria : Product passes if they do not show a bright adherent deposit of copper after four 60 seconds immersions in the copper sulphate solution.

0 cycle	1 cycle	2 cycle	3 cycle	4 cycle
Pass	Pass	Pass	Pass	Pass

Result : Fully confirm to the above requirement of UL

Test Std : BS4568 ClauseA.3.3 (Protective Zinc coating)
Criteria : Product pass if they do not show a bright adherent deposit of copper after four 60 second immersions in the copper sulphate solutions.
Result : **No formation of red rust.** (Superior resistance to corrosion)

CUSO ₄ Test (Cleaning additional coating before test)	0 cycle	1 cycle	2 cycle	3 cycle	4 cycle
Outside					

• Salt spray test

Method : It involves spraying of salt solution on the sample being tested inside a temperature controlled chamber.
Duration : 480 hours or more.
Result : No formation of red rust. (Superior resistance to corrosion)

96 hours	168 hours	240 hours	336 hours	408 hours	480 hours
Result White Rust 30%	Result White Rust 80%	Result White Rust 90%	Result White Rust 100%	Result White Rust 100%	Result White Rust 100%

Under testing corrosion will appear as - White rust & Red rust

White rust

It is the formation of zinc oxide and looks like white powder on top of Zinc plated steel. The good thing about it is that this form of rust is not affecting the base material. It does not indicate serious degradation of zinc coating nor does necessarily it imply any likely reduction in the expected life of the product

Red rust

It is caused by the corrosion of steel substrate where zinc coating has broken down completely. The most important thing about red rust is that this form of rust is affecting the base material resulting in the degradation of material .



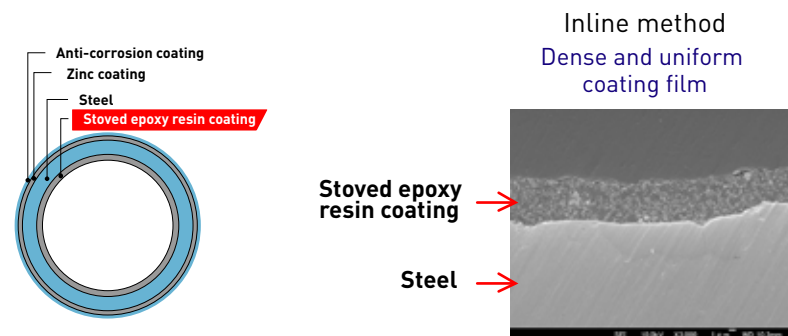
White rust



Red rust

2. Superb INSIDE Surface!

Rust Proof & Smooth Seam! Special Coating Technology by Panasonic



INSIDE SURFACE
ENAMEL COATING THOROUGHLY

Corrosion resistance
Uniform Quality

OUTSIDE SURFACE
- INLINE HOT DIP =>
UNIFORM & SMOOTH

Easy wire pushing & pulling

INSIDE SURFACE
- ENAMEL COATING

INSIDE SEAM
- SMOOTH & SMALL

✓ Easy wire pulling
✓ Protect wire insulation
✓ Protect from corrosion

3. Superb Bending!

Smoothly and No Damage in Any Bending Angle! Exclusive Material & Process by Panasonic

By the use of high quality manufacturing and high quality steel Panasonic conduit can bend smoothly and there is no damage in any bending angle.

Easy and accurate bending

Made From :
HIGH QUALITY STEEL
To prevent flattening & splitting

INSIDE CURVE -Doesn't wave

INSIDE SURFACE
- TIGHTLY STICK, NO CRACK
WHEN BENDING

FLATTENING

SPLITTING

Panasonic conduits are manufactured from high quality steel & processed by high frequency induction welding therefore the finished tube is uniform in OD, wall thickness & ductility.

White Conduit & Conduit Fittings

ANSI/UL

EMT (Electrical Metallic Tubing)

Listed by "UL" File No. E-44051



UL 797

Item No.	Size (inch)	Outside diameter (mm)	Target Wall Thickness (mm)	Length (mm)	Target Weight (Kg/Pc)	Primary Bundle (Pcs)	Master Bundle (Pcs)
DWE012Y	1/2	17.93	1.04	3,048	1.32	10	500
DWE034Y	3/4	23.42	1.20	3,048	2.01	10	300
DWE100Y	1	29.54	1.39	3,048	2.94	5	200
DWE114Y	1-1/4	38.35	1.59	3,048	4.40	5	125
DWE112Y	1-1/2	44.20	1.59	3,048	5.10	5	100
DWE200Y	2	55.80	1.59	3,048	6.49	3	75
DWE212Y	2-1/2	73.03	1.74	3,048	9.33	-	40
DWE300Y	3	88.90	1.74	3,048	11.41	-	30
DWE312Y	3-1/2	101.60	1.97	3,048	14.77	-	20
DWE400Y	4	114.30	1.99	3,048	16.82	-	20