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## **TOTAL TUBE SOLUTIONS FOR CORROSION PROBLEMS**

PMS S.A. is exclusive agent for Greece of the Korean Company DAECHUN INDUSTRIAL CO. LTD., global suppliers in Offshore & Shipbuilding, who run business since 1981 and have been manufacturing **Multi Core Tube bundles, Stainless Steel Coil Tubes, Straight Tubes, Sheathed Copper Tubes, Pre-Insulation Tubes** and supplying both domestic and overseas shipyards for over 25 years. They have supplied shipyards over 10,000 ship sets with their products across the world by 2014.

Their products are all approved by major Classification Societies, such as **ABS, BV, CCS, DNV-GL, KR, LR, NK, RINA, RMRS**, certified by **ISO 9001, ISO 14001, OHSAS 18001** and registered in **Achilles Joint Qualification System**.

For more information regarding DAECHUN INDUSTRIAL CO. LTD., please visit their [website](#), where you can also download their [brochures](#).

### **Have you ever suffered from *CORROSION PROBLEMS*?**

The corrosion of metals and alloys in natural and chlorinated seawater has long presented challenges for Marine & Offshore Industries.

Stainless Steel & Copper tubings are acclaimed for their excellent corrosion resistance and widely used in the field. Nonetheless, they are also susceptible to corrosion attack in the presence of water, oxygen and chloride. The consequences of tube & fitting corrosion have been a critical problem in worldwide marine and offshore projects and incurs unavoidable both direct & indirect costs.


Fortunately, the problems with tubing corrosion can be simply solved with DAECHUN's Multi Core Tube and unavoidable corrosion costs can be reclassified as **"AVOIDABLE COSTS"!**

**Wrong Installation (Stainless Steel & Copper Tube/Fitting Corroded!)**



**Highly Recommended Installation (Tube/Fitting system completely protected!)**





**Stainless Steel Coil Tube**

**Stainless Steel Seamless Coil Tube**  
**Stainless Steel Seam-welded Coil Tube**

**Size Ranges**  
O.D 6mm ~ 15mm & W.T 0.5mm ~ 2.0 mm  
O.D 1/4" ~ 1/2" & W.T 0.035" ~ 0.083"

**Seamless Copper Level Wound Coil Tube**

**Size Ranges**  
O.D 6mm ~ 15mm & W.T 0.5mm ~ 1.4 mm  
O.D 1/4" ~ 1/2" & W.T 0.035" ~ 0.055"

**Multi Core Tube**

**Tube Material**  
Stainless Steel, High Alloy Stainless Steel, Super Austenitic, Nickel Alloy, Duplex, Copper, Copper-Nickel 90/10

**Sheath Material**  
PVC, FR PVC, HR PVC, HFFR TPU, HFFR PE, HDPE, MDPE, LDPE, XLPE

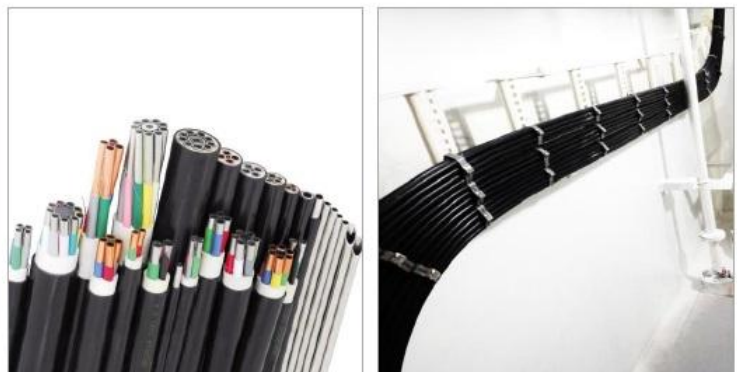
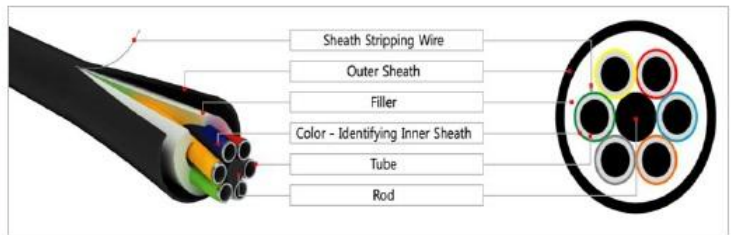
**Available from 1 Core to 16 Core**

Application

Multi Core Tube is a bundled tube tied together to efficiently install, maintain and control at once. It is used in shipbuilding, on/offshore plants and other industries to transport hydraulic oil, air, gas and etc.

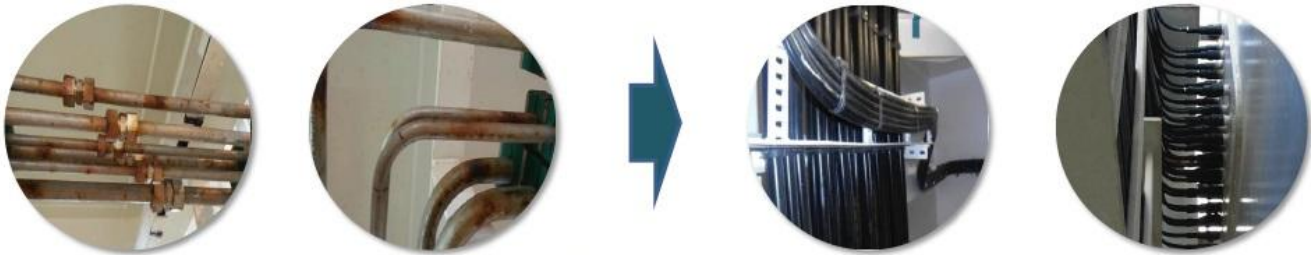
Multi Core Tube Application:

- Valve Remote Control(VRC) Lines
- Fire Fighting Control Lines
- Pressure Sensing Lines
- Tank Level & Draft Gauging Lines
- Wellhead Control Panel Lines
- Process Instrument Lines
- Control & Instrumentation Lines
- Deck Machinery Remote Control Lines
- Fixed Gas Detection Sensing Lines
- Sampling & Draining Lines
- Heat Tracing Lines
- Chemical Injection Lines
- Hydraulic Control Lines
- Process & Power Plants
- Shipbuilding, Oil, Gas, Petrochemical, Desalination, Fertilizer & Chemical Industries

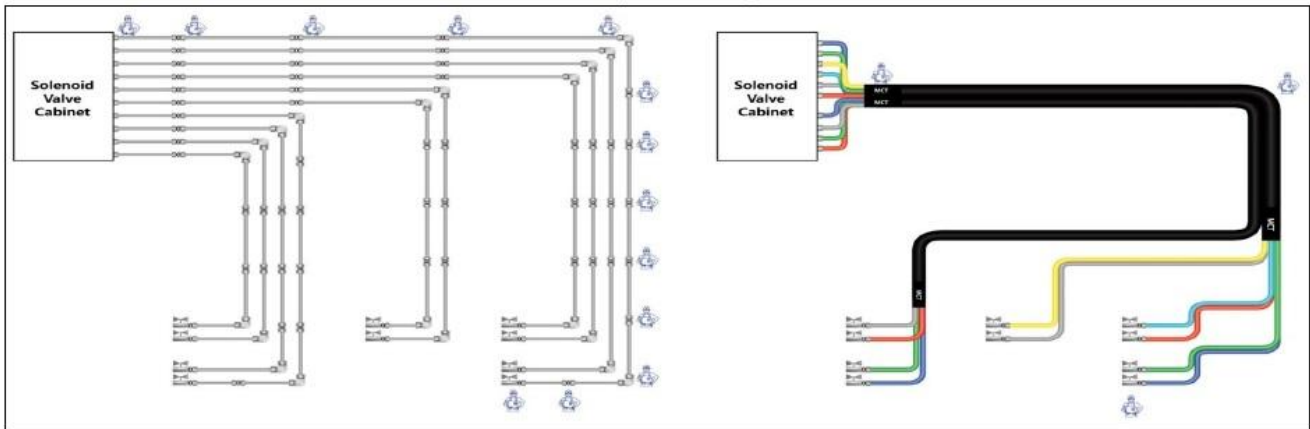


CONVENTIONAL TUBE VS MULTI CORE TUBE

Prevent Corrosion !



Save 7 to 8 times of installation time & cost and space-saving



LIFETIME CAPITAL COST COMPARISON

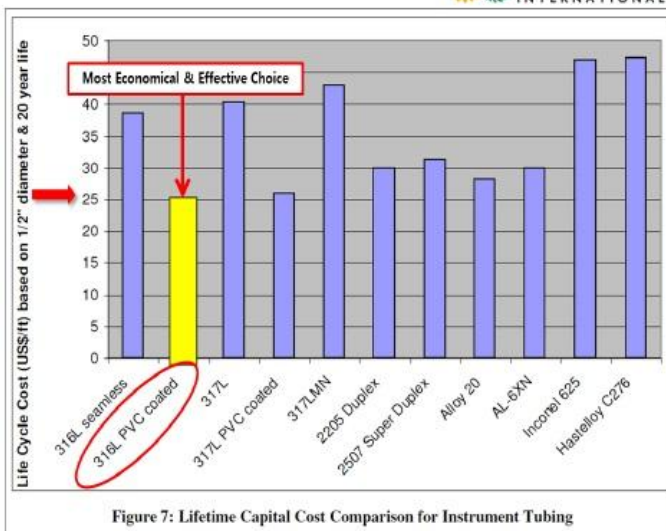


Figure 7: Lifetime Capital Cost Comparison for Instrument Tubing

<Extracted from NACE International Paper No.08254, prepared by Shell International Exploration and Production, 200 North Dairy Ashford, Houston, TX 77079 USA>

Multi Core Tube Advantages:

- Material Cost Reduction
- Product Scraps & Wastes Reduction
- Convenient & Fast Installation
- Free from Expansion & Contraction Loop
- Installation Time & Cost Reduction
- Inspection Process Minimization
- Corrosion Prevention
- Complete Tube Protection
- Free from Maintenance
- Space-saving & Cost Effective Design Solution
- Individual Tube Identification



Please do not hesitate to contact us as we would be pleased to assist you with any requirement you may have.

**Best Regards,**

**PIRAEUS MARINE SERVICES S.A.**

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