

Comprehensive Physical Infrastructure Solutions for Offshore and Refinery Applications







#### **Reduce Installation Time**

Taking time out of the installation process is a great benefit, contributing to meeting aggressive construction schedules and project ROI goals.

Panduit solutions are known for patented, time-saving features that reduce the number of installation steps. In remote locations where weather windows can be very tight, even a minor construction delay can result in schedule penalties and revenue delay. In head to head comparisons with competitive products contractors have found Panduit products to be significantly easier and faster to install.

Even our tooling is engineered to speed the installation process.

### **Global Reach, Local Delivery**

More so than other industries, oil and gas energy production is a global business dependent upon a global supply chain.

Panduit's extensive worldwide network of local distributors and regional warehouses allow us to deliver the right solutions when and where they are needed. Having locally based professionals is a significant advantage. As an organization Panduit is very knowledgeable about the local cultures and the various codes and country-specific standards. And, our professionals leverage their global experiences to collaborate on solving unique customer challenges.



**Panduit Can Help You Manage It** 











## Pan-Steel® Self-Locking Stainless Steel Cable Ties

The Pan-Steel® Super Heavy Cross Section
Self-Locking Stainless Steel Cable Tie is a lightweight,
flexible alternative to cable cleats for fastening
cables to cable tray. The self-locking design speeds
installation because no tray modification is required.
Total installation costs can be as much as 25% less
vs. traditional cleats. The smooth, rounded edge

of Pan-Steel® Cable Ties is considerably safer for installers to handle, and protects against abrasion of the cable jacket/insulation.

## **Marine Copper Cable**

Panduit® TX7000™ marine rated shielded copper cable meets the high bandwidth needs of modern Ethernet communications. A highly durable, flame and oil resistant jacket provides protection for harsh on-ship and off-shore applications, meeting stringent DNV and ABS standards. The shielding also offers superior performance in high EMI environments.





## **Direct Burial Compression Grounding System**

Panduit's unique design offers an alternative to exothermic grounding systems, meeting the higher survivability benchmarks of IEEE 837<sup>™</sup>-2014 standard. Because there is no open flame involved in the installation process, installations can continue in any weather condition and open-burn permits are not required. Bonds can be visually inspected

on the spot. Field tests show installation speeds are up to 4 times faster than exothermic equivalents. Meets the higher survivability benchmarks of IEEE 837<sup>™</sup>-2014 standard.





### **Permanent Identification Solutions**

Panduit identification solutions are used with pipes, conduit, cables, and related equipment. Available in many colors and configurations, these fire-resistant systems are manufactured for long-term use in the harsh environments found in oil and gas operations. Known for outstanding durability and legibility, Panduit identification solutions can be embossed, etched, or engraved prior to delivery.

## **Safety Solutions**

Panduit's industry-leading safety offering of lockout/tagout devices, facility signage, and labeling systems serve as the cornerstone of safety programs for the control and identification of all types of hazardous energy systems. These can include electrical, chemical, pneumatic, mechanical, kinetic, and hydraulic applications. Panduit safety solutions are compliant with OSHA, ANSI, and NFPA requirements.





# IndustrialNet<sup>™</sup> Ethernet Enclosures, Racks, and Accessories

Enclosures are critical components of today's network zone architectures, providing IT and control personnel a reliable convergence point for making network drops to control panels and field devices. Panduit enclosures, racks and assemblies are NEMA 4 rated, pre-engineered solutions for reliable performance in highly demanding operating conditions.





#### Micro Data Center

Panduit's Micro Data Center is an ideal fit for all your communication and monitoring equipment. A Micro Data Center houses the servers, switches, patch panels, cabling, and other critical components needed to manage a process control application. The small footprint makes it easy to locate for quick access.

## **Global Approvals and Certifications**









































## **Industrial Automation Solutions**

Panduit is uniquely qualified to understand the complexities of plant-level networks and controls, from monitoring production processes to optimizing pathway design. Panduit's Industrial Automation Solutions ease the deployment of industrial networks and automation control systems. Integrated and optimized architectures, solutions, and services help customers achieve business objectives such as accelerated convergence of IT and the factory floor, quicker deployment times, and broader risk management.

## **Panel Systems**

Our broad line of control panel products improve reliability, security, and safety at lower costs of ownership. They are designed to meet the challenges of tight, hard to reach access areas and minimize Electromagnetic Interference (EMI) noise inside the panel -- while lowering the panel footprint and cost. Outstanding visual identification features enhance maintenance, troubleshooting, and accidental shutdowns.

#### **Micro Data Centers**

As more IT equipment is deployed in industrial spaces rather than corporate offices, a new breed of products is required. The Panduit Micro Data Center addresses the need for seamless integration ensuring that the linkage between industrial communication and corporate network systems is secure, environmentally protected, and optimized to speed diagnostics and problem solving, while reserving the ability to isolate the networks when security threats to production arise. Our designs optimize performance when space and cable routing is challenging or multiple sizes and mounting options are required.

## **Data Center Solutions**

Panduit Intelligent Data Center Solutions encompass data center advisory services, intelligent software and hardware, energy efficient cabinets, pre-configured infrastructures, physical infrastructure foundation, and high-speed data transport (HSDT) copper and fiber optic cabling. Our solutions are modular, scalable, and agile, fully supporting state-of-the-art network architectures today and into the future.

#### Best practice methodologies are supported in four key areas:

- Visibility and control for managing and automating real-time data processes and documentation
- Convergence of new technologies and high-speed data applications
- Operational efficiencies through process improvement and IT initiatives, such as reduced cooling requirements through the use of energy efficient data cabinets
- · Capacity management for greater real estate utilization





# PANDUIT®

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