

MAJOR PRODUCTS AND QUALIFICATIONS

Most comprehensive military product offering in the cable industry: Power, Control, Signal and Communication applications — Copper, Fiber, Blown Optical Fiber, Connectorized Cable and Hybrid Cabling Systems



Military Shipboard Cables

General Cable is the only manufacturer to be qualified for all slash sheets within M24643 and M24640 and is the preferred supplier to the U.S. Navy.

COPPER CABLES

- MIL-C-24643 power, control and signal LSZH
- MIL-C-24640 lightweight power, control and signal LSZH
- MIL-C-915 power, control and signal
- NAVSEA XXX series of power, control, signal, data, coax and specialty cables
- Connectorized cable

Singlemode and multimode: Low-Smoke, Zero-Halogen shipboard cables qualified to M85045 including blown optical fiber technology.

FIBER OPTIC CABLES

- MIL-PRF-85045/13
- MIL-PRF-85045/15
- MIL-PRF-85045/16
- MIL-PRF-85045/17
- MIL-PRF-85045/18
- MIL-PRF-85045/20
- MIL-PRF-85045/21
- MIL-PRF-85045/22
- MIL-PRF-85045/23
- MIL-PRF-85045/24
- MIL-PRF-85045/25
- MIL-PRF-85045/26*
- Connectorized cable
- *OPL pending

Quality Programs and Certifications

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000



General Cable serves customers through a global network of 28 manufacturing facilities in eight countries and through sales representatives and distribution centers worldwide.



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harnessing the *power* of technology
for our best defense

SERVING THE MILITARY SHIPBOARD MARKETS

- power cables
- control cables
- signal cables
- communication cables



The 21st Century began with tragic events that shocked our nation and increased the need for both military action and national security initiatives. With these developments came a renewed emphasis on premier technology systems designed to support a new warfare environment and ensure our best defense.

Who better to harness the power for these mission-critical systems than a recognized, dependable partner with a 40-year legacy of international expertise in military cable technology combined with dedication, performance and quality.

Who better than General Cable's Brand Rex Shipboard Cables

General Cable's engineered Brand Rex Brand military shipboard wire and cable has a long and distinguished record of involvement in high-priority defense programs. Spanning all branches of the Armed Forces, Brand Rex shipboard cables continue its forward-looking leadership role by providing the "ultimate in protection" for power, control, signal and communications cabling solutions. Still in a class by itself, Brand Rex shipboard cables continue to meet the highest performance standards in innovative military cable technology.

Brand Rex cables support our nation's most technologically advanced ship systems:

- Aegis Destroyers and weapon control systems
- Amphibious Assault Ship programs
- Information Technology for the 21st Century (IT-21) Shipboard C4 programs
- *Nimitz*-class nuclear-powered aircraft carriers
- Fiber optic Tactical Integrated Digital System
- *Virginia*-class nuclear-powered submarines

Serving key customers like General Dynamics including Bath Iron Works, Electric Boat and NASSCO; Northrop Grumman Ship Systems including Avondale Industries, Ingalls and Newport News Shipbuilding; Lockheed Martin and Raytheon. Partnering with Department of Defense agencies that steer Navy technology such as DSSC; NUWC, NSWC and NAVSEA.

Your partner for our 21st Century Defense

The military consistently turns to Brand Rex cables, the premier cable for quality and reliability. Always dedicated to supporting military programs, General Cable is the best partner for next generation shipboard systems.

- Numerous designs completed for *Virginia*-class submarine program
- Blolite™, the first Qualified Products List (QPL) militarized version of blown optical fiber
- Development of installer-friendly power cable
- Next generation propulsion shipboard cable
- Militarized category communications cable
- 21st Century fully qualified fiber optic shipboard cable (IT-21)

Still in a class by itself, Brand Rex shipboard cables continue to meet the highest performance standards in military cable innovative technology.



Dedication Speaks for Itself

As a preferred supplier to the military, General Cable has a strong tradition of dedicated leadership in the integration of research, design, engineering and manufacturing of generation after generation of shipboard cables.

- Material Development via research, testing and compliance in a QPL-approved lab
- Dedicated engineering expertise for innovative systems design
- Nearly one million square feet of manufacturing capacity
- Advanced customer purchasing and information eBusiness tools
- Strategic alliances through global technology and industry partners
- Committed to the highest standards of product quality
- Continually in pursuit of product improvement

With the ability to process an extensive variety of material into thousands of cable constructions for sustained and continuous operations in challenging environments, General Cable is the *military's preferred choice* for the development of new technology.



Performance Predictability

General Cable's state-of-the-art *Lean* manufacturing facilities utilize effective, innovative processes where 100% of associates are *Lean Trained* for improved productivity, superior quality control and reduced waste—providing *affordability* to our customers.

- Vertically integrated processes and materials subject to full quality control
- Wide selection of materials equates to a comprehensive QPL program for MIL-C-24643 and MIL-C-24640
- Extensive thermoset capabilities provide advanced mechanical fortification
- Optimized braid shield for ultimate EMI, RFI and EMP protection
- Technical leadership in development of Low-Smoke, Zero-Halogen systems
- Water tight for mission-critical environments
- Engineered connectorized cable from design to final documentation

General Cable's *Lean* manufacturing platform includes factory-floor cellularization techniques and six-sigma process improvement tools, which combine with effectively applied advanced technology to insure 100% product predictability.



Quality — Standing the Test of Time

With quality programs and certifications that include ANSI/NCSL Z540-1, MIL-I-45208A, MIL-STD-790, NHB 5300.4 (1C), ISO 9001:2000 and Statistical Process Control (SPC), General Cable strives to provide value optimization through innovative and quality solutions.

- Extensive range of in-house qualification testing
- First U.S. cable manufacturer to be ISO 9000 registered
- Cross-functional quality accountability inherent to all operations
- Continuous process control and quality audits mean dependable performance
- Strict adherence to product specification
- Environmentally sound products, processes and policies

Brand Rex cable has stood the test of time with proven reliability and performance, resulting in lower cost per foot over the lifecycle of the cable.

QUIK-PREP™ MIL-C-24643 Power Cable

General Cable's years of dedication to material development and military engineering expertise was called to action by a key military-contracted shipyard to develop an innovative power cable that would meet the stringent standards of MIL-C-24643 with quantifiable cable preparation materials and labor cost savings.

General Cable's QUIK-PREP single and multi-conductor power cables are specified as The Preferred Method and approved by NAVSEA for compliance to MIL-C-24643/14, 15, 16, 17, 19 and 22.

QUIK-PREP power cables feature time-saving ripcords that facilitate stripability of the outer jacket and an innovative cost saving extruded skin over the insulated taped conductors. The extruded skin serves in place of the synthetic tubing required by NAVSEA installation specifications. This engineered cable design is quicker, easier and safer to prepare and terminate.

Extruded skin:

- Eliminates the need for costly preparation materials such as synthetic tubing, insulating varnishes and phase markers
- Significant reduction of man-hours in preparation time correlates to drastically lower overall labor costs
- Preparation process with the extruded skin construction is an environmentally safer procedure
- Overall construction enhances the integrity of the cable insulation system for more reliable performance

Rip Cord:

- Effectively separates jacket from water tight cable core for easier stripability and quicker cable preparation time
- No longitudinal scoring is needed, which means no damage to the underlying conductor insulation system eliminating repair time and cost
- Increased operator safety as a result of minimal use of cutting tools

General Cable's QUIK-PREP is an environmentally sound MIL-C-24643 power cable providing affordability through lower installation costs while still providing reliable performance.

Demand the cable that stands the test of time... insist on General Cable's QUIK-PREP power cables



QUIK-PREP™
MIL-C-24643/16



The Power of ONE

General Cable

Brand Rex
BRAND

Photo of USS Harry S. Truman CVN 75 and USS Toledo SSN-769 courtesy of Northrop Grumman Newport News. Photo of DDG 85-McCampbell courtesy of Bath Iron Works, a General Dynamics company.