Like the U.S. Military, General Cable’s STABILOY® Brand aluminum alloy feeder cables are known for their dependable, consistent performance and their high-quality standards. That is why our STABILOY Brand cables are installed in many types of military buildings throughout the U.S. including:

- Barracks
- Housing
- Training Compounds
- Administrative Offices

The STABILOY Brand of products includes MC Cable, FeederPlex HS® XHHW-2 cable, and single conductor WIDESTRIPE HS® XHHW-2 cable, which distribute power to the switchgear throughout the building. Each of these cable solutions provides significant cost savings and reliable performance. STABILOY Brand MC Cable offers a durable interlocked aluminum armor to protect the electrical conductors from damage, while allowing flexibility in construction and design. The all-in-one assembly of MC Cable makes it a cost-effective solution for electrical retrofits in existing buildings. STABILOY Brand single conductor WIDESTRIPE HS XHHW-2, a phase-identified, low coefficient of friction cable can be used in EMT, PVC or other types of conduit. Our FeederPlex HS XHHW-2 cable is a factory-plexed assembly of XHHW-2 conductors that allows for fast and easy cable pulls while eliminating the need to pull multiple conductors from separate reels. So whether you are installing in conduit or not, STABILOY Brand aluminum alloy feeder cables offer you a safe, reliable and cost-effective solution for distribution feeder applications.

Quality is the top priority at the US-based General Cable manufacturing plants where STABILOY Brand products are made. Quality is never a question with STABILOY Brand cables. In fact, General Cable tests every foot of every aluminum alloy feeder that it manufactures. Each STABILOY Brand single conductor and cable assembly is tested using the application of high voltage while immersed in water, ensuring that the insulation has zero defects.

The superior performance of STABILOY Brand aluminum alloy cables is validated by independent research. The Georgia Power Research Laboratory conducted a study comparing STABILOY Brand feeders to copper conductors. The results of the study show that connections installed on AA-8030 aluminum alloy performed as well as or better than connections installed on copper conductors of equivalent ampacity in the current cycle submersion test.

STABILOY Brand aluminum alloy is readily available, infinitely recyclable and manufactured in an environmentally responsible manner. STABILOY Brand feeders contain no heavy metals and are RoHS* compliant, and the cable jackets are free of lead and cadmium stabilizers. General Cable XHHW-2 insulation provides a longer life than THHN/THWN-2, thereby extending the total life of the installation and reducing waste.

*Denotes compliance to RoHS, Directive 2002/95/EC

General Cable products manufactured in the USA meet the guidelines established under the Buy American Act and the North American Free Trade Agreement. Electrical power cables manufactured by General Cable may include such name brands as STABILOY Brand, FeederPlex HS, and WIDESTRIPE HS. All of these products are manufactured in the United States and are North American Free Trade Agreement (NAFTA) certified and comply with the Buy American Act that has been in effect since 1933.

For more information on General Cable, please call toll-free at 855-720-2792.
APPLICATION

STABILOY Brand feeder cables are UL® Listed and can be used for power services, power distribution, power circuits and temporary services.

– Power services for headquarters, administrative buildings, barracks, commissaries, hospitals and other support buildings.
– Feeder conductors for power distribution to the panel in a variety of building constructions including wood stud, metal stud, concrete poured and cinder block.
– Feeder and branch circuits for heavy equipment and HVAC services.
– Temporary services for power during the construction phase. Our Metal Clad cable with PVC jacket can be used in exterior locations including wet locations and where exposed to sunlight.

DESIGN CONSIDERATIONS

General Cable offers several product solutions for pipe and wire feeder applications. STABILOY Brand Metal Clad (MC) cable offers flexible installation for both indoor and outdoor applications, and significant labor and material costs savings with the same performance and protection as pipe and wire.

PROJECTS LIST

- Eglin AFB Special Forces Complex, Florida
- Kings Bay Base Housing, Georgia
- Wili Wili Military Housing, Hawaii
- Camp Grayling Barracks, Michigan
- Fort Bragg Special Operations Forces Training Compound, North Carolina
- Goose Creek Naval Weapons Station Housing, South Carolina

SPECIFICATIONS

Field application engineers are on staff to help you navigate the electrical specification including takeoffs and voltage drop calculations. They are also available to assist you with specification changes, value engineering proposals and technical questions.

The military specification that includes the aluminum conductors option is as follows:

United Facilities Guide Specifications
UFGS - 26 20 00 (August 2008)
Interior Distribution System

2.9.1.2 Aluminum Conductors

Aluminum conductors shall be AA-8000 series electrical grade aluminum alloy conductors. Type EC/1350 aluminum is not acceptable. Should contractor choose to provide aluminum for conductors 4 AWG and larger diameter, contractor shall be responsible for increasing conductor size to have same ampacity as copper size indicated; increasing conduit and pull box sizes to accommodate larger size aluminum conductors in accordance with NFPA 70; ensuring that pulling tension rating of aluminum conductor is sufficient; providing panel boards [and motor control centers] that are UL listed for use with aluminum, and so labeled; relocating equipment, modifying equipment terminations, resizing equipment; and resolving problems that are direct results of providing aluminum conductors in lieu of copper.
STABILOY Brand aluminum alloy features a unique composition of metals that is specially engineered to give you the same performance as copper with less weight, lower cost and greater flexibility.

Conductivity
It's true. Aluminum conductors carry twice the current per pound as copper conductors. This is a significant performance advantage that utilities depend on for the national power grid. In feeder cable applications, the same performance advantage of aluminum can be realized by using STABILOY Brand aluminum alloy instead of copper.

Insulation
No question about it. STABILOY Brand aluminum alloy conductors feature superior insulation. In fact, the cross-linked polyethylene (XLPE) insulation on STABILOY Brand conductors performs better in cold impact, wet electrical and long-term aging tests. This makes it a better insulation for every application.

Termination
Why mix metals? STABILOY Brand aluminum alloy conductors terminate safely with industry standard dual-rated aluminum lugs. The “similar metals” connection eliminates thermal expansion mismatch, which translates into a safe and reliable termination.

Quality
It’s a fact. General Cable tests every foot of every aluminum alloy feeder cable that it manufactures. Because STABILOY Brand aluminum alloy feeder cable is 100% tested for quality – its reliability, durability and safety are all guaranteed!

Performance
High-quality STABILOY Brand aluminum alloy features a unique composition of metals that is specially engineered for superior performance in building feeder applications.

Confidence
You can rest assured. If aluminum is the utility companies’ preferred choice for carrying power all the way from the generator to the grid, it’s the right choice for the last 100 feet of power delivery – feeder cable.

Ease-Of-Use
STABILOY Brand aluminum alloy feeder cable is much easier to install. Maintenance for STABILOY Brand and copper is equal. This makes it more time-efficient and more cost-effective as well.

Value
At twice the ampacity per pound, not only is aluminum more cost-effective than copper, but the price of aluminum is much more stable than the price of copper.

Sustainability
Aluminum alloy is readily available and infinitely recyclable. In addition, STABILOY Brand aluminum alloy conductors are manufactured in an environmentally responsible manner.
### MC Cable
An all-in-one XHHW-2 conductor assembly with phase-identified conductors and a bare equipment grounding conductor. The assembly is a “no conduit” solution that provides labor and material savings of up to 50% over copper in conduit. STABILOY Brand MC Cable is available with and without a PVC jacket.

### FeederPlex HS XHHW-2
Factory-plexed assembly of aluminum alloy XHHW-2 conductors with specially designed XLPE insulation that allows for fast and easy pulling. Designed with phase identification for safer connections and delivered on one reel to the job site. STABILOY® Brand FeederPlex HS® significantly reduces installation time and effort during the pull, and minimizes site management.

### WIDESTRIPE HS® XHHW-2
A single conductor aluminum alloy feeder cable with a specially designed XLPE insulation that allows for fast and easy pulling. Phase identification on the conductor consists of three wide color stripes embedded within the surface of the insulation. The insulation on STABILOY Brand WIDESTRIPE HS (High Speed) XHHW-2 conductors reduces pull force by 42% compared to the installation of regular XHHW-2 using pull lube.

### STABILOY® Brand XHHW-2
A single conductor feeder with cross-linked polyethylene (XLPE) insulation that provides better performance than THHN insulation in hot and cold weather conditions, wet electrical tests, higher short circuit temperatures and long-term aging tests.

### CASE STUDIES

**Special Operations Drill Sergeant Barracks – Fort Bragg, North Carolina**
- **Building Construction:** Metal stud construction
- **ACE Electric**
- **Why STABILOY Brand?** ACE Electric selected STABILOY Brand because of the material cost savings and labor savings of using aluminum vs. copper
- **Product:** STABILOY XHHW-2

**Special Operations Forces Training Facility – Fort Bragg, North Carolina**
- **Building Construction:** Metal stud construction
- **HA Sack Electric**
- **Why STABILOY Brand?** HA Sack Electric achieved significant installation cost savings using STABILOY Brand aluminum alloy feeders instead of copper
- **Product:** STABILOY Brand XHHW-2