

# Shore2Ship™ THOF-500E Power Cable for Cold Ironing

***With Global Warming and concerns for Environmental Degradation as a priority Maritime Agencies all over the world are talking about Cold Ironing – And so is General Cable.***

Even when at berth, ships' engines are generally left running to maintain essential services. **Cold Ironing** – one of the primary and preferred solutions to the emissions reduction regulations - also referred to as “Shoreside Power” or “Shore-to-Ship Power”, provides vessels at berth a power source to plug into on shore, allowing them to **maintain essential services while turning their engines off completely.**

**The cable and connectors used for cold ironing are very specialized** as they are required to withstand the severity of the environment in which they are applied – exposure to sea water and direct sunlight, continuous motion of the ship, and the repeated flexing of a portable power system among others.

**General Cable’s Shore2Ship™ THOF-E cable is designed with all of these challenges in mind.** Known for its Anaconda® Brand of mining-grade cable, General Cable was able to apply its engineering expertise to the development of the THOF-E design incorporating:

- A physically tough jacket designed to resist the worst abrasion
- A dual layer CPE jacket extruded under pressure to fill the cable’s interstices
- Maximum flexibility to facilitate repeated use without causing harm to the cable core

*In 1997 the International Maritime Organization (IMO) adopted Annex VI (Regulations for the Prevention of Air Pollution from Ships) to MARPOL (International Convention for the Prevention of Pollution from Ships), which specifically dictates the **reduction of vessel pollutants.** Leading the way in the U.S. the California Environmental Protection Agency’s Air Resources Board enacted the “At-Berth Ocean-Going Vessels Regulation” containing a clearly defined compliance schedule starting January 1, 2010.*



# Shore2Ship™ THOF-500E

## Enhanced THOF-500 Shore-to-Ship Power Cable

### 600V/2000V, EPR 90°C

*General Cable's THOF-500E design eliminates identified flaws of the original Mil-DTL-915/6K THOF-500 cable*

#### Product Construction

##### Conductors:

- 500 kcmil tinned coated copper per ASTM B33 and ASTM B172

##### Insulation:

- Ethylene Propylene Rubber (EPR) 90°C
- Color Coded: black, white, red

##### Separator:

- 2 mil non-hygroscopic opaque polyester

##### Jacket:

- Reinforced, two-layer, flame-retardant, extra-heavy-duty, thermoset Chlorinated Polyethylene (CPE) - black

##### Print:

- GENERAL CABLE® 3/C 500 KCMIL 600V/2000V THOF-500E SHORE2SHIP™ POWER CABLE

##### Options:

- Other jacket colors upon request

##### Features:

- Dual-layer reinforced jacket for superior physical strength and abrasion resistance
- Pressure extruded jacket for water resistance
- Flexible construction for easy handling
- Flame- and sunlight-resistant
- Rated 2 kV

#### Compliances:

##### Industry:

- Meets requirements of RHH/RHW per UL 44

##### Flame Test:

- MSHA (30 CFR Part 7)

##### Other:

- ICEA S-75-381: Portable and Power Feeder Cables for use in mines and similar applications

##### Packaging:

- 1500 ft, 1000 ft or 500 ft Lengths
- Standard: Non-Returnable Wooden Reels
- Option: Returnable Wooden or Steel Reels



*Copper Weight: 4808.6 lbs/1000ft (7155.5 kg/km)*

CATALOG NUMBER	NO. OF COND.	COND. SIZE	MINIMUM AVG. INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL CABLE O.D.	NOMINAL CABLE WEIGHT
		kcmil (STRAND)	INCHES (mm)	INCHES (mm)	INCHES (mm)	LBS/1000 FT (kg/km)
13333.036500	3	500 (1221/24)	0.095 (2.41)	0.250 (6.35)	2.89 (73.41)	7890 (11742)