



TYPE THOF ENHANCED

600V-2000V

Based on ICEA no. s-75-381

Cables are designed to operate under OPNAVINST 11310.3 C guideline

APPLICATIONS

- Power cables used for navy ships
- Other industrial applications
- For use in Alternative Maritime Power, Ship to Shore power and Cold Ironing

CONSTRUCTION

Conductors	500 kcmil - flexible stranded tin coated copper to ASTM B33 for protection against corrosion. Class I rope-lay-stranded conductor with bunch-stranded members
Separator	A suitable polyester tape separator between the conductor and insulation
Insulation	A special EPDM rubber, halogen free, lead-free compound, developed by TF Kable
Circuit identification	Color coding of power conductors : black , white , red
Core arrangement	Three power cores wrapped around rubber filler in the centre
Inner Jacket	Black integral filled heavy duty, chloroprene synthetic thermosetting compound
Reinforcement	Braid of polyamide threads between inner and outer sheath
Outer jacket	Black extra heavy duty , chloroprene synthetic thermosetting compound, developed by TF Kable for enhanced toughness, and tear, abrasion, crush resistance



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Features

Voltage rating: 600 V or 2000 V	Excellent impact and abrasion resistant max 60%
Test Voltage: 9,5 kV/5min	Sea water resistant
Insulation resistance: min 1000 MΩ	Suitable to use in contaminated environment- chemical, oil resistant
Max. conductor operating temperature: +90°C	UV resistant
Max. conductor temperature during short circuit: +250°C	Ozone resistant
Min. ambient temperature for fixed installation: -40°C	Flame resistant: PN-EN 60332-1-2, IEC 60332-1-2
Min. ambient temperature for mobile installation: -25°C	Flexible for easy handling and continuous reeling
Two layered extra heavy duty jacket reinforced for maximum protection from mechanical damage	Roller bending test – 20 000 cycles
Excellent tear resistance	Torsional stress test - 100°/m

Key parameters

The industry standards for the Cold ironing of maritime vessels

CV cured rubber	Chloroprene (CR) rubber
Environmental friendly	High tensile strength
Provides superior physical properties	Excellent abrasion resistance
Better abrasion resistance	Excellent resistance to corrosive chemicals
Provides smooth and homogenous jacket	Good oil and grease resistance
Reduces torque induced stress	
Properties repeatability	
Round shape retention	

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Standard length cable packing

500m on drums. Other forms of packing and delivery are available on request

Power conductor size	Power Conductor Stranding	Nominal Insulation Thickness	Nominal Jacket Thickness (Inner and Outer)	Approx. Weight		Approx. O.D.		Conductor Resistance acc. to UL1581	*Ampacity rating at 30°C
Kcmil	N x mm	Inches/mm	Inches/mm	lbs/1000 ft	kg/km	Inches	mm	Ohms/1000 Ft at 25°C	A
500	1221x0.51	0.09/2.29	0.235/5.97	7282	10838	2.75	69.9	0.0238	558

*Ampacity based on 90C conductor temperature, single cable in free air

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