

The Best Just Got Better.

MEETS NEK 606 STANDARD FOR
ESTER-BASED MUD



General Cable's MOR™ Polyrad® XT-125 Marine Cable jackets meet the stringent requirements of the NEK 606 test standard for ester-based muds, providing you with increased safety and improved productivity that you can count on for the tough demands of today's drilling.

Advancements in mud oil materials offer improved drilling performance while reducing toxicity and environmental impact. New ester-based mud oils are the product of choice among extraction companies for enhanced worker safety, faster drilling, reduced waste and increased production rates. These advanced mud oils significantly raise required performance levels and reliability of marine power cable, and once again, General Cable has risen to the challenge.

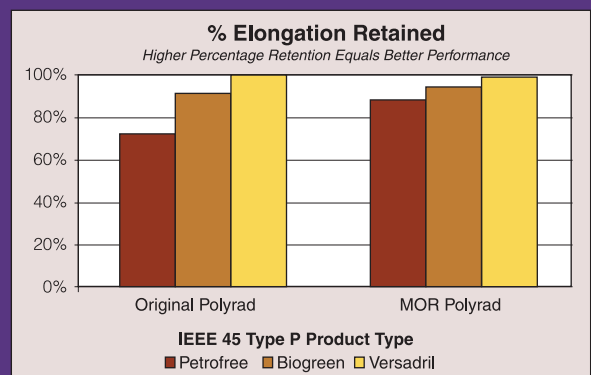
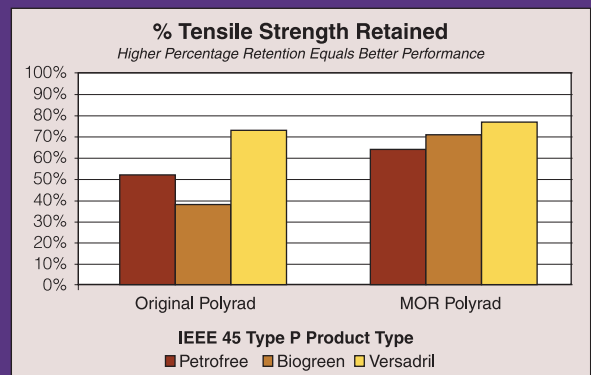
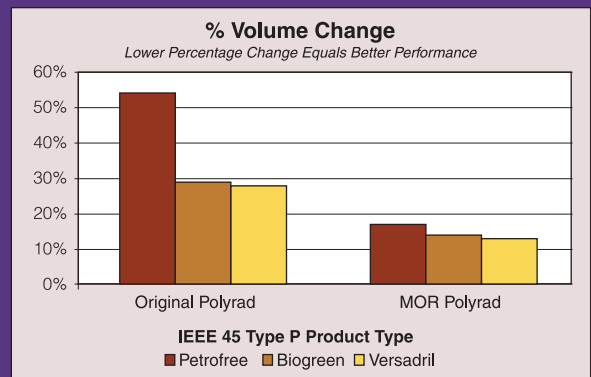
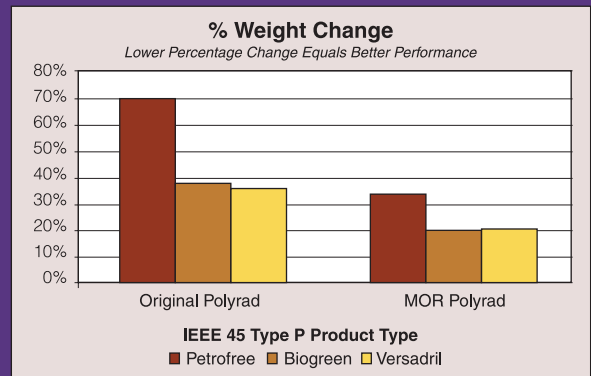
At General Cable, we believe all our customers should have access to the very best in wire and cable products. Regardless of the environment or the requirement, only the most innovative products that promise unmatched reliability, performance and cost effectiveness are good enough for our customers.

As the leader in material science and cabling technology, General Cable's dedicated team of professional chemists, engineers and technicians came together to further enhance our quality line of marine power cables. MOR™ POLYRAD® XT-125 is proven optimized for enhanced mud oil resistance, while continuing to meet the rigorous requirements of IEEE 1580 Type P with maximum flame retardance, resistance to environmental conditions, and excellent mechanical properties. *Because our customers deserve only the best.*



Mud Oil Immersion Testing

The following graphs depict the % change/retained in property values in relationship to the original cable properties.



MOR POLYRAD XT-125 Marine Cables meet the stringent requirements of the NEK 606 56-day immersion test protocol for ester-based mud oils.

MOR™ Polyrad® XT-125 Type P Marine Cables... Servicing the Offshore and Land-Based Drilling Markets

Meets
NEK 606

Offering a full line of Mud Oil Resistant MOR™ Polyrad® XT-125 Type P Marine IEEE 1580 cables — General Cable has played a leading role in the development of irradiated thermoset jackets with maximum flexibility and mud resistance to stand up to severe stresses of installation and operation in hostile environments.

All of General Cable's MOR Polyrad XT-125 Type P Marine product line is engineered in accordance with the following Regulatory and Certification Agencies and manufactured in conformance with written quality control procedures all under our ISO-9001: 2000 commitment to quality in all aspects of the organization:

- American Bureau of Shipping (ABS)
- Canadian Standards Association (CSA)
- Det Norske Veritas (DNV)
- ETL Listing per IEEE 1580 Type P
- Lloyd's Register of Shipping (LRS)
- Transport Canada Marine Safety (TCMS)
- Underwriters Laboratories Inc. (UL)
- United States Coast Guard (USCG)

General Cable's MOR Polyrad XT-125 Type P Marine product line of enhanced Mud Oil Resistant cables are suitable for the following applications:

- Permitted in Class I Division I and Zone I environments (certain regulatory bodies may require armor & sheath)
- Engineered for hostile environments; marine shipboard, offshore drilling platforms, FPSOs and land-based drilling production.
- For use as branch power feeders, power distribution, control, lighting, alarm, energy management and signaling circuits.

Design Adherence Specifications:

- API-RP14F • CSA C22.2 No.245 FT4 -40°C • CSA C22.2 No.38 & No. 230 • ICEA S-95-658 • IEC 60092-3 • IEEE 1580 Type P • IEEE 383
- IEEE 1202 • UL 1277 • UL 1390 • UL Listed 110°C Marine Shipboard Cable • VW-1 and IEC 332-3A Flame Tests • Multi-Conductor Cable Passes the Crush and Impact Tests Required by UL MC-HL; May be Suitable for Hazardous Locations

Low-Voltage Unarmored or Armored Power Cable 2000V: 8 AWG thru 1111 kcmil Single Conductor Power

Product Line	Insulation	Optional Armor	Sheath†
MOR Polyrad XT-125 Type P Single Conductor Power	Polyrad XT-125 Black Irradiated Cross-Linked Polyolefin* (XLPO)	Bronze Braid 88% Minimum Coverage	Black Irradiated Cross-Linked Hypalon® Chlorosulfonated Polyethylene (CSPE)

*Heavy-Duty for 4/0AWG and larger † Armored constructions

Low-Voltage Shielded Unarmored or Armored & Sheathed Variable Frequency Drive (VFD) Power Cable 600V & 2000V:

1/0 AWG thru 373 kcmil Three Conductor Power

Product Line	Insulation	Grounds	Shield	Inner Jacket*	Optional Armor	Sheath†
MOR Polyrad XT-125 Type P Three Conductor VFD Power	Polyrad XT-125 Irradiated Cross-Linked Polyolefin (XLPO)	3 Uninsulated Tinned Copper Class I Stranded Ground Wires	Overall Tinned Copper Braid Shield With Aluminum/Polymer Tape 100% Shield Coverage	Black Irradiated Cross-Linked Hypalon® Chlorosulfonated Polyethylene (CSPE)	Bronze Braid 88% Minimum Coverage	Black Irradiated Cross-Linked Hypalon® Chlorosulfonated Polyethylene (CSPE)

*Unarmored & armored constructions † Armored constructions

Low-Voltage Unarmored or Armored & Sheathed Power Cable 600V: 8 AWG thru 777 kcmil Multi-Conductor Power

Product Line	Insulation	Inner Jacket*	Optional Armor	Sheath†
MOR Polyrad XT-125 Type P Multi-Conductor Power	Polyrad XT-125 Irradiated Cross-Linked Polyolefin (XLPO)	Black Irradiated Cross-Linked Hypalon® Chlorosulfonated Polyethylene (CSPE)	Bronze Braid 88% Minimum Coverage	Black Irradiated Cross-Linked Hypalon® Chlorosulfonated Polyethylene (CSPE)

*Unarmored & armored constructions † Armored constructions

Low-Voltage Unarmored or Armored & Sheathed Control Cable 600V: 18 AWG thru 10 AWG Multi-Conductor Control

Product Line	Insulation	Inner Jacket*	Optional Armor	Sheath†
MOR Polyrad XT-125 Type P Multi-Conductor Control	Polyrad XT-125 Irradiated Cross-Linked Polyolefin (XLPO)	Black Irradiated Cross-Linked Hypalon® Chlorosulfonated Polyethylene (CSPE)	Bronze Braid 88% Minimum Coverage	Black Irradiated Cross-Linked Hypalon® Chlorosulfonated Polyethylene (CSPE)

*Unarmored & armored constructions † Armored constructions

Low-Voltage Individually Shielded Unarmored or Armored & Sheathed Signal Cable 600V: 20 AWG thru 14 AWG Paired Signal

Product Line	Insulation	Shield	Inner Jacket*	Optional Armor	Sheath†
MOR Polyrad XT-125 Type P Paired Signal	Polyrad XT-125 Irradiated Cross-Linked Polyolefin (XLPO)	Aluminum/Polymer Tape and Tinned Copper Drain Wire over each Pair	Black Irradiated Cross-Linked Hypalon® Chlorosulfonated Polyethylene (CSPE)	Bronze Braid 88% Minimum Coverage	Black Irradiated Cross-Linked Hypalon® Chlorosulfonated Polyethylene (CSPE)

*Unarmored & armored constructions † Armored constructions

Note: Individual and Overall Shielded construction available.

Other General Cable Product Lines for the OGP Market include:

Medium-Voltage UniShield® and Uniblend® cables; Low-Voltage DuraSheath®, CCW®, FREP®, PLTC and ITC cables; full line of IEC products.

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