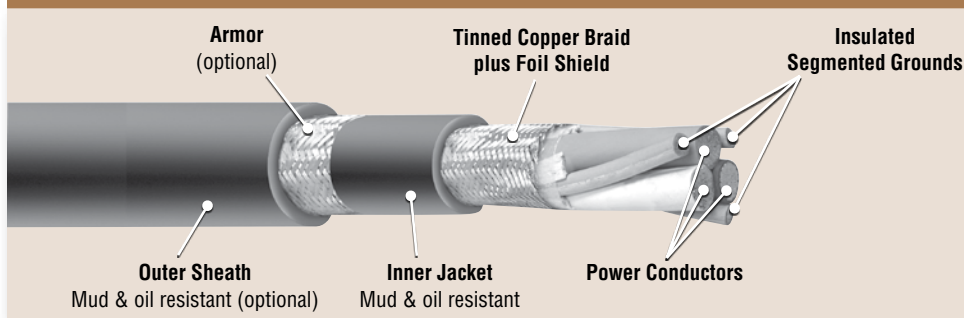




Exane® MR-VFD Power Cables

Three Conductors Armored & Unarmored (Offshore & Land Rigs)



IEEE 1580
 Drilling Fluid Resistant
 1KV; 2KV; 2KV(HD)
 Type Approved by ABS, DNV & Lloyd's Register (LR)

Features

- Optimized tinned copper braid with Aluminum/Polyester foil tape shielding system provides 100% coverage and an effective EMI shield for isolation of the high frequency currents and potentials, and an effective low impedance path to ground for AC drive applications
- Passes minus 55°C cold bend & minus 40°C cold impact
- Armored & Unarmored cables pass the UL 2225 Crush & Impact Test requirements for Type MC-HL

Performance Standards

- ITS; UL and CSA Listed as Marine Shipboard Cables
- UL/CSA Type X110
- IEEE 45/1580
- Passes IEEE 1202 & FT-4, 70,000 Btu/hr Vertical Tray Flame Tests
- Passes the IEC 60332-3-22 Category A/F Flame Test
- Type Approved by ABS, DNV GL and Lloyd's Register NA
- Armored and Sheathed cables are suitable for use in Class 1, Div 1 and Zone 1 hazardous locations
- Unarmored cables suitable for use in Class 1, Div 2 & Zone 2
- Excellent drilling fluid and mud resistance to IEC 61892-4-Annex D
- Includes oils called out in NEK 606

Construction

Conductor: Flexible, soft annealed tinned copper per ASTM B33 & IEEE 1580

Insulation: Irradiation cross-linked Polyolefin, Exane®

Color Code: As specified by customer. Standard – Dk. Gray, White, Red. Grounds – Green

Fillers: Flame retardant Polypropylene

Shield: Optimized T.C. braid + Foil Tape with 100% coverage

Inner Jacket: Black, Irradiation cross-linked chlorosulfonated polyethylene (CSPE). Sunlight Resistant.

Armor (optional): Bronze Braid – Standard. Tinned Copper Braid – Optional

Outer Jacket (optional): Black, Irradiation cross-linked chlorosulfonated polyethylene (CSPE). Sunlight Resistant.

Temperature Rating: RSCC Wire & Cable rated 125°C, UL/CSA 110°C, IEEE 100°C

Scope

Exane® MR-VFD power cables are high performance cables rated 1KV, 2KV and 2KVHD. They are designed for use in applications where high speed (IGBT) AC drives will be utilized. Exane® MR-VFD cables are flexible, and employ an optimized tinned copper braid shield with an Aluminum/Polyester laminated tape to provide exceptional shielding characteristics. The Exane insulation is radiation cross-linked and provides outstanding physical properties. Exane® MR-VFD cables are extremely tough and durable and ideally suited for use in arduous environmental conditions, where exposed to drilling fluids and muds, experienced in offshore mobile drilling units (MODU), FPSO's, TLP's and land rigs for oil and gas drilling rigs. Exane® MR-VFD's 125°C temperature rating for short durations lends itself to handle higher ampacity levels and higher safety margins in the field. Its extremely flexible design and tightly controlled dimensions lead to benefits regarding lower weight, tray fill, ease of installation and long service life.



Marmon Engineered Wire & Cable LLC
 A Berkshire Hathaway Company