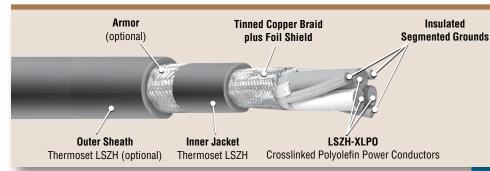


Exane® ZH-VFD

Power Cables

Three Conductors Armored & Unarmored (Offshore & Land Rigs)



IEEE 1580 (LSXLPO)
Low Smoke Zero Halogen
1KV; 2KV; 90°C
ITS/UL Marine Shipboard

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.
- Better physical & wet electrical properties than halogen free IEC cables
- Insulation Resistance Constant, K = 10,000 Vs 1,360 for HF85 per IEC 60092-351
- · Limited Smoke
- Zero Halogen content

Performance Standards

- Listed by UL as Type X110, rated for 110°C
- Listed by ITS (ETL) as Type LSX, IEEE 1580 and is rated 90°C
- Passes IEEE 1202 & FT-4 at 70,000 Btu/hr Vertical Tray Flame Tests
- Single conductors pass the UL VW-1 flame test per UL-44/UL-1581
- Type approved by ABS, DNV GL and Lloyd's Register NA
- Armored & Sheathed cables are suitable for use in Class 1, Division 1 and Zone 1 hazardous locations
- Unarmored cables are suitable for use in Class 1, Division 2 and Zone 2 hazardous locations
- IEEE 45/1580 Tests:
 - Halogen Content 0% < 0.2%
 - Acid Gas 0.5% < 2%
 - Smoke Index 8.85 < 25
 - Toxicity Index 0.6 < 1.5
- IEC Tests:
 - Passes IEC 60332-1-2 & -2-2 Flame Tests
 - Passes EN 50265-2-1 & -2 Flame Tests
 - Smoke Density, IEC 61034, Light Transmittance = 96%
 - Ph > 4.3, per IEC 60754
 - Conductivity ≤ $10 \mu \text{S.mm}^{-1}$, per IEC 60754
 - Halogen Acid, IEC 60754, Pass

Scope

Exane® ZH-VFD low smoke zero halogen (LSZH), power Marine Shipboard Cables. bridge the performance gap between the premium Exane-125 Type P cables and the IEC HF cables. The Exane ZH. LSZH insulation is radiation cross-linked and provides outstanding physical properties, resistance to abrasion, cut-through, low and high temperature, sunlight, flame. It is a lowsmoke, zero halogen material that is extremely tough and durable and withstands the arduous environmental conditions experienced in offshore mobile drilling units (MODU), FPSO's & TLP's for oil and gas drilling rigs. It provides the low-smoke, non corrosive characteristics that have been deemed to be critical for the crew quarters in MODU's. Exane ZH is ITS (ETL) listed to IEEE 1580 as Type LSX, a lowsmoke, zero halogen cable that also meets the IEC HF requirements. It is also listed by Underwriters Laboratories (UL) to UL 1309/ CSA C22.2 No. 245.

Construction

Conductor: AWG – Flexible Tinned Copper, per IEEE 1580. Sq mm – IEC 60228 Class 5 TC. Available on request

Insulation: Irradiation Cross-Linked Exane-ZH,

Type LSXLPO (IEEE 1580)

Color Code: As specified by customer. Standard – Black,

White, Red, Grounds – Green

Shield: Optimized T.C. braid + Foil Tape with

100% coverage

Inner Jacket: Black, Cross-Linked, LSZH, Type L (IEEE 1580) & Type SHF-2 (IEC) Armor (optional): Bronze Braid – Standard.

Tinned Copper Braid - Optional

Outer Jacket (optional): Black, Cross-Linked, LSZH,

Type L (IEEE 1580) & Type SHF-2 (IEC)

Temperature Rating: UL – 110°C; IEEE – 90°C

RSCC Wire & Cable – 125°C



Marmon Engineered Wire & Cable LLC
A Berkshire Hathaway Company

