# Instrumentation 10x3x1.5 mm $^2$ 250V OFS OBS LSZH-SHF2 FIRE RESISTANT

**Part Number:** **8MG0464104**

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| **Applications:** | Offshore installations, Maritime Environment, Outdoor, Indoor |
| **General Construction:** | 10 twisted triads are cabled together, overall foil shielded and SHF2 jacketed. An armor of tinned copper braid followed by an outer jacket completes the cable structure.<br>The cable contains an additional pair reserved for communication.<br>This is a fire resistant cable designed to work during a fire, all materials are cross linked, low smoke & halogen free with excellent resistance to oil, fuel, chemicals and abrasion. |
| **Outer Jacket Material:** | XL-HFFR |
| **Outer Diameter:** | 36.5 mm nom. |
| **Weight:** | 1820 kg/km |

## Design & Materials

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| **Conductor Material:** | Annealed Tinned Copper |
| **Conductor Cross Section:** | 1.5 mm² |
| **Conductor Construction:** | 7x0.516 mm |
| **Insulation Material:** | XL-HFFR + Fire Resistant Tape |
| **Insulation O.D.:** | 3.2 mm nom. |
| **Conductor unit identification:** | Numbered |
| **Conductor Color Code:** | Black x White x Red |
| **Communication Pair:** | Orange x Blue |
| **Binder:** | Polyester |
| **Overall Shield Design:** | 100% Coverage |
| **Overall Shield Material:** | Aluminum/Polyester Foil |
| **Overall Drain-wire Material:** | Annealed Tinned Copper |
| **Overall Drain-wire size:** | 18 AWG |
| **Overall Drain-wire Construction:** | Stranded |
| **Inner Jacket Material:** | XL-HFFR |
| **Inner Jacket Thickness:** | 2.0 mm nom. |
| **Armoring:** | Braided Tinned Copper |
| **Armoring Wire Diameter:** | 0.3 mm |
| **Armor Coverage min.:** | 90 % |
| **Total number of conductors:** | 30 |
| **Total number of conductor units:** | 10 |
| **Rip-Cord:** | Yes |
| **Outer Jacket Thickness:** | 1.6 mm nom. |
| **Outer Jacket Color:** | Blue with Red Strip |
| **Marking:** | Per request |

## Standards

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| **Applicable Standards:** | DNV-GL certified, ABS certified, IEC 60092-376, IEC 60092-359, IEC 60092-350, IEC 60092-351, IEC 60228, IEC 60811-2-1, RoHS-2 2011/65/EU |
| **Flamability Rating:** | IEC 60331, IEC 60332-3 , IEC 60754-1/2, IEC 61034-1/2 |

## Performance

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| **Max. DC Resistance :** | 12.9 /km@20°C |
| **Dielectric Strength:** | 2000 V/minute |
| **Dielectric Strength to Shield:** | 1000 V/minute |
| **Voltage Rating:** | 250 V |
| **Min. Bend Radius:** | Dx11 mm |
| **Max. Operating Temperature:** | +125 °C |
| **Min. Operating Temperature:** | -40 °C |
| **UV resistance:** | Yes |
| **Fire resistance:** | Yes |

| Prepared By | Revised By | Version Num | Modified on |
|---|---|---|---|
| Roee Ran | Ofer Solter | 1.3 | 06-01-2015 |