Armoured PROFIBUS 1 Pair 22 AWG

Application

These profibus cables are dedicated for fixed installation on board of ship, used as connection cables for digital signals up to 12MBd.

Standards

- IEC 60332-1&2
- IEC 60754-1/2
- IEC 61034
- IEC 60092

Construction

- Conductors: Stranded bare copper 22 AWG.
- Insulation: Foam skin PE.
- Easy Strip: Thermoplastic copolymer (FRNC).
- Overall Screen1: Aluminium/polyester tape.
- Overall Screen2: Tinned copper braid.
- Inner Sheath: SHF2.
- Armour: Galvanised Steel Wire Braid.
- Outer Sheath: SHF2.

Core Identification

Core 1: Red
Core 2: Green

Electrical Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characteristic Impedance</td>
<td>150 ± 15</td>
</tr>
<tr>
<td>Mutual Capacitance @1KHz</td>
<td>28.5 nF/km</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>16000 MΩ.km</td>
</tr>
<tr>
<td>Attenuation @9.6kHz</td>
<td>2.5 dB/km</td>
</tr>
<tr>
<td>Attenuation @38.4kHz</td>
<td>4 dB/km</td>
</tr>
</tbody>
</table>
### IEC Standard Caledonian Offshore & Marine Cables

MariLan Marine Lan Data & Communication Cables

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- **Attenuation @4kHz**: 22 dB/km
- **Attenuation @16kHz**: 42 dB/km

### Mechanical and Thermal Properties

- **Bending Radius for Fixed Installations**: $10 \times OD$
- **Temperature Range**: $-30^\circ C \sim +75^\circ C$

### Dimensions and Weight

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Construction</th>
<th>Core Diameter</th>
<th>Nominal Overall Diameter</th>
<th>Nominal Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLN- 02YSH(ST)CHSWBH-1×2×22A</td>
<td>$1 \times 2 \times 22$ AWG</td>
<td>2.55 mm</td>
<td>10.65 mm</td>
<td>180 kg/km</td>
</tr>
</tbody>
</table>

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www.caledonian-cables.co.uk