BRUsens Acoustic Sensing Cables

BRUsens DAS 4.5 mm AC3 metallic

Fiber optic acoustic sensing cable, extra small, with stainless steel central metal loose tube, stainless steel strength members and PA outer sheath, good acoustic response, for up to 4 fibers.

Description
- Compact design, high flexibility, small bending radius
- Loose tube, central, metal, with up to 4 fibers, hermetically sealed
- Outer sheath halogen free
- Outer sheath, robust, abrasion resistant, with special acoustic interlocking system, PA
- Excellent rodent protection
- High chemical resistance
- Laterally watertight
- High tensile strength and crush resistance
- Acoustic sensitivity, improved by high molecular gel
- Good acoustic sensitivity

Application
- Acoustic
- Rayleigh scattering
- Outdoors, harsh environment
- Direct burial in soil, attached to structures or in conduits, subsea

Remarks
- For improved UV resistance, black cable sheath available upon request
- Accessories such as mounting brackets, loops, fan-outs, splice enclosures, patch-panels, repair kits etc. are available
- Deployment training upon request
- Standard cable marking with meter marks, special labeling of outer sheath upon request
- Other cable designs and temperature ranges upon request
- Standard fiber color code: 1 red, 2 green, 3 yellow, 4 blue

Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. no. of fibres units</th>
<th>Cable ø mm</th>
<th>Weight kg/km</th>
<th>Installation Max. tensile strength N</th>
<th>Operation Max. tensile strength N</th>
</tr>
</thead>
<tbody>
<tr>
<td>2F/4F</td>
<td>4</td>
<td>4.5</td>
<td>32</td>
<td>1000</td>
<td>700</td>
</tr>
</tbody>
</table>

Type
- with tensile load
- Min. bending radius mm
- without tensile load
- Min. bending radius mm
- Max. crush resistance N/cm

<table>
<thead>
<tr>
<th>Type</th>
<th>2F/4F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. bending radius</td>
<td>20xD</td>
</tr>
<tr>
<td>Min. bending radius</td>
<td>15xD</td>
</tr>
<tr>
<td>Max. crush resistance</td>
<td>600</td>
</tr>
</tbody>
</table>

Optical fiber data (cabled) at 20°C

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Attenuation dB/km</th>
<th>1310 nm</th>
<th>Attenuation dB/km</th>
<th>1550 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMF</td>
<td>≤0.36</td>
<td></td>
<td>≤0.25</td>
<td></td>
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