**SPECIAL HIGH PERFORMANCE CABLES - FIRE RESISTANT**

**QFCI/QFCU - Multiloose**

**FEATURES & APPLICATIONS**

- Safety Systems, Critical Connections and Fire Fighting Systems
- Outdoor installation in Off-shore, Oil & Gas and Marine applications
- Data transmission and telecommunication systems

**TEMPERATURE RANGE**

-40/+70°C (operating)
-40 /+70°C (storage)
-10 /+70°C (installation)

**MINIMUM BENDING RADIUS**

- 20 times overall diameter (dynamic)
- 10 times overall diameter (static)

**CABLE CONSTRUCTION**

**Fibres**
Singlemode and multimode fibres, with loose technology coating.

**Structure**
The jelly filled tubes containing the fibres are individually wound with a mica tape and are cabled around a central steel or FRP (fibreglass reinforced plastic) element. A flame resistant tape improves fire resistance.

**Inner sheath**
LSZH (M1) compound

**Armouring**
A1 Galvanized steel wire braid

**Outer sheath**
QFCI type: LSZH (M1) compound
QFCU type: oil and mud resistant LSZH (M1) compound

**APPLICABLE STANDARDS**

- **Optical fibre characteristics** IEC 60793-1
- **Optical fibre cable characteristics** IEC 60794-1
- **Fire Resistant** IEC 60331-25 EN 50200 PH30/PH120
- **Fire retardant** IEC 60332-3 EN 50266
- **Flame retardant** IEC 60332-1 EN 60332-1
- **Test on gases evolved during combustion** IEC 60754 EN 50267-2
- **Low smoke emission** IEC 61034-2 EN 50268-2
- **Cables for offshore installation** NEK 606

<table>
<thead>
<tr>
<th>Type</th>
<th>Fibre (n° max)</th>
<th>Tube Diameter (mm)</th>
<th>Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tension load (N)</th>
<th>Crush (N/100mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLO-000-**-M1-A1-FR-QFCI/QFCU</td>
<td>4</td>
<td>2.0</td>
<td>13.5</td>
<td>230</td>
<td>1500</td>
<td>3000</td>
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approximate values