FIRE RESISTANT LOOSE BUFFERED CABLES
OPTICEL FR - Multi tube LPCB Approved

MLO-000-**-M1-A5-FR

LPCB ref. 217i
For the scope of the LPCB Approval
see www.redbooklive.com

FEATURES & APPLICATIONS

- Safety Systems, Critical Connections and Fire Fighting Systems
- Indoor and outdoor installation
- Tunnels and closed areas in general
- Metro and railway station, airport.
LPCB certification ensures constant and maximum control of behavior during a fire, providing the utmost guarantee of reliability and safety.

TEMPERATURE RANGE

-40 °C / +70 °C (operating)
-40 °C / +70 °C (storage)
-10 °C / +60 °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 FRP (fiberglass reinforced plastic) strength member.
Glass yarn is an additional traction element, and also acts as anti-rodent protection.
A special flame resistant tape improves fire resistance.
The outer jacket is LSZH (M1) compound.

APPLICABLE STANDARDS

Optical fibre characteristics IIEC 60793-1
Optical fibre cable characteristics IEC 60794-1
Fire resistant IEC 60331-25
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

<table>
<thead>
<tr>
<th>Type</th>
<th>Max n. of fibres</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>
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<tbody>
<tr>
<td>A5 DIELECTRIC ARMOURED</td>
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<tr>
<td>MLO-000-**-M1-A5-FR</td>
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<td>10.6</td>
<td>120</td>
<td>3000</td>
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<tr>
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<td>12.0</td>
<td>130</td>
<td>3000</td>
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approximate values