Fibre Optic Cables

FIRE RESISTANT LOOSE BUFFERED CABLES
Multi tube

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. When necessary glass yarn is the traction element. A flame resistant tape improves fire resistance.

Inner sheath
LSZH (M1) compound (only for A1, A3 and A7 armoured cables)

Armouring
A1 Galvanized steel wire braid
A3 Corrugated steel tape
A5 Anti-rodent glass yarns
A7 Steel wire armour

Outer sheath
LSZH (M1) compound

FEATURES & APPLICATIONS
• Safety Systems, Critical Connections and Fire Fighting Systems
• Indoor and outdoor installation
• Tunnels and closed areas in general

TEMPERATURE RANGE
-40/+70°C (operating)
-40/+70°C (storage)
-10/+60°C (installation)

MINIMUM BENDING RADIUS
20 times overall diameter (dynamic)
10 times overall diameter (static)

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>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>
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approximate values