UCFIBRE™ Aerial fig-8

Self supporting aerial cable, in figure 8 design, 2 – 48 fibres

Application and Installation
Telecom trunk and access lines
CATV trunk lines
Data communication connections
The cable may be installed on poles with a span length of from 50 m to 100 m, depending on climatic conditions.

Standards
IEC 60794-3
IEC 60794-3-20
IEC 60794-4
ISO 11801 2nd edition
EN 50173-1:2002

General
This cable can be used for spans of up to 100 m depending of the loading conditions

Construction
Suspension strand 7 x 1 mm galvanised steel strand, with covering to Ø4.8 mm
Web Nominally: H: 3 mm W: 2 mm
Central strength member Ø 2.5 mm FRP rod
Loose tube Ø 2.3 mm loose tubes with 2 – 8 fibre
Fibre colour code 1 Red 4 Yellow
2 Green 5 White
3 Blue 6 Grey
Water blocking Jelly filling
Wrapping Polyester tape
Sheath 2.0 mm black MDPE, IEC 60811, IEC 60708

Note: The Draka policy of continuous improvement may cause in changed specifications without prior notice

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## Physical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal outer diameter cable</td>
<td>11.5 mm</td>
</tr>
<tr>
<td>Nominal height of cable</td>
<td>20 mm</td>
</tr>
<tr>
<td>Nominal weight</td>
<td>190 kg/km</td>
</tr>
<tr>
<td>Min. Bending radius</td>
<td>E11 R = 230 mm</td>
</tr>
<tr>
<td>Tensile strength (dynamic)</td>
<td>E1 &gt;10 kN</td>
</tr>
<tr>
<td>Tensile strength (permanent)</td>
<td>E1 6 kN</td>
</tr>
<tr>
<td>Compressive strength (crush)</td>
<td>E3 3000N</td>
</tr>
<tr>
<td>Impact</td>
<td>E4 20 Nm</td>
</tr>
<tr>
<td>Temperature range</td>
<td>F1 -40°C to +70°C</td>
</tr>
<tr>
<td>Water penetration</td>
<td>F5 No water on free end</td>
</tr>
<tr>
<td>Nominal EA</td>
<td>1300 kN</td>
</tr>
<tr>
<td>Coefficient of linear expansion</td>
<td>15 mm/km/°C</td>
</tr>
<tr>
<td>Maximum span length</td>
<td>100 m</td>
</tr>
</tbody>
</table>

## Stringing and loading data

<table>
<thead>
<tr>
<th>Span [m]</th>
<th>50</th>
<th>80</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial sag (2 % of span length) [m]</td>
<td>1.0</td>
<td>1.6</td>
<td>2.0</td>
</tr>
<tr>
<td>Nominal stringing force [kN]</td>
<td>0.5</td>
<td>0.8</td>
<td>1.0</td>
</tr>
</tbody>
</table>

- Conditions at an external load of 20 N/m (ice or wind):
  - Cable sag [m] | 1.8 | 3.3 | 4.3 |
  - Cable tension [kN] | 3.7 | 5.3 | 6.2 |
  - Cable strain [%] | 0.3 | 0.4 | 0.5 |
  - Fibre strain [%] | 0.0 | 0.0 | 0.0 |
- Conditions at an external load of 30 N/m (ice or wind):
  - Cable sag [m] | 2.0 | -   | -   |
  - Cable tension [kN] | 4.8 | -   | -   |
  - Cable strain [%] | 0.4 | -   | -   |
  - Fibre strain [%] | 0.0 | -   | -   |
- Conditions at an external load of 40 N/m (ice or wind):
  - Cable sag [m] | 2.2 | -   | -   |
  - Cable tension [kN] | 5.9 | -   | -   |
  - Cable strain [%] | 0.5 | -   | -   |
  - Fibre strain [%] | 0.0 | -   | -   |

## Product codes – ordering information

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Fibre count</th>
<th>Product code</th>
<th>Fibre type</th>
<th>Fibre data sheet</th>
</tr>
</thead>
</table>

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