



## UC FIBRE™ I/O ST D MA LSHF-FR 1.8 kN

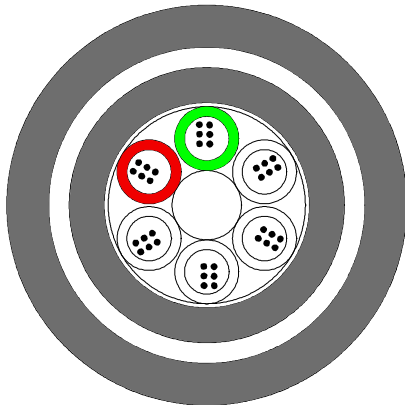
Stranded loose tubes, 6 – 96 fibre, 6, 8 or 12 fibres per 2.3 mm tubes, semi dry construction, inner FireRes® sheath, corrugated steel tape armouring, outer FireRes® sheath

DIN/VDE U-DQ H (SR) H

NO

FR

DK



### Application and Installation

Installation on tunnels and subways

Difficult installation environments where fire retardancy is an issue

For installation with risk of severe rodent attacks

### Standards

EN 187 000  
IEC 60794-3  
IEC 60794-3-10  
IEC 60794-3-12  
ISO 11801 2<sup>nd</sup> edition  
EN 50 173-1

### Construction

|                         |  |        |    |           |
|-------------------------|--|--------|----|-----------|
| Central strength member | Ø2.5 mm FRP rod  |        |    |           |
| Fibre colour code       | 1  | Red    | 7  | Brown     |
|                         | 2  | Green  | 8  | Violet    |
|                         | 3  | Blue   | 9  | Turquoise |
|                         | 4  | Yellow | 10 | Black     |
|                         | 5  | White  | 11 | Orange    |
|                         | 6  | Grey   | 12 | Pink      |
| Loose tube              | Ø2.3 mm jelly filled loose tubes with up to 12 fibres each |        |    |           |
| Water blocking          | The core is wrapped with swellable tape                    |        |    |           |
| Inner sheath            | Grey FireRes®, EN 50290-2-27                               |        |    |           |
| Armouring               | 0.155 mm corrugated steel tape                             |        |    |           |
| Outer sheath            | 1.5 mm grey FireRes®, EN 20290-2-27                        |        |    |           |

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



## UC FIBRE™ I/O ST D MA LSHF-FR 1.8 kN

### Fire rating

|                                |   |
|--------------------------------|---|
| IEC 60332-1-2                  | Single vertical wire test                   |
| IEC 60332-3-24 =<br>IEC 332-3C | Vertically-mounted bunched wires and cables |
| IEC 60754-1                    | No halogens                                 |
| IEC 60754-2                    | No acid matters                             |
| IEC 61034-2                    | No dense smoke                              |

### Physical properties

IEC 60974-1-2

| Property                     | Test method | Value  |
|------------------------------|-------------|--|
| Tensile strength (dynamic)   | E1          | 1800 N   |
| Tensile strength (permanent) | E1          | 1200 N   |
| Compressive strength (crush) | E3          | 3000N  |
| Impact                       | E4          | 20 Nm  |
| Reverse bending              | E6          | 30 reversed bends; R = 300 mm  |
| Torsion                      | E7          | 5 cycles ±1 turn   |
| Kink                         | E10         | No kink at 12x cable diameter  |
| Temperature range            | F1          | Storage: -60 °C to 60 °C<br>Installation: -30 °C to 60 °C<br>Operation -60 °C to 70 °C<br>In the interval -60 °C to 70 °C there is no attenuation variation (≤0.05 dB) for a single mode fibre, when tested according to the standard mentioned. |
| Water penetration            | F5B         | No water on free end (core only)   |

### Mechanical properties

| Fibre count;<br>6 fibre/tube | Fibre count;<br>8 fibre/tube | Fibre count;<br>12 fibre/tube | Nominal diameter | Nominal cable weight | Minimum bending radius |
|------------------------------|------------------------------|-------------------------------|------------------|----------------------|------------------------|
| 6-36                         | 8-48                         | 8-72                          | 14.5 mm          | 250 kg/km            | 290 mm                 |
| 42-48                        | 56-64                        | 84-96                         | 16.0 mm          | 300 kg/km            | 320 mm                 |

### Product codes – ordering information

| Item No.   | Fibre count | Product code | Fibre type | Fibre data sheet |
|------------|-------------|--------------|------------|------------------|
| o. request |             |              |            |                  |

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