# D34: UC$^{FIBRE}$ I/O DI LSHF-FR $C_{ca}$ ES9

**I/O distribution cable, 2-24f, glass yarns, FireRes® sheath**



## GENERAL INFO

This distribution or mini-break-out cable can be used for many indoor and limited outdoor applications. Typical cable applications include: LAN and WAN backbones, central office interconnections, backbones in data centres, and many other. Glass yarns provide a degree of rodent protection. This cable features high flame retardance with Cca approval. The cable is well suited for installation in ducts and on trays. The cable features UV stabilisedFireRes®sheathing, water-blocked. This cable features Draka's ES9 easy strippable tight buffer.

## CERTIFICATIONS AND DESIGN STANDARDS

| | |
|---|---|
| **ISO/IEC 11801** | Generic telecom cabling for customer premises |
| **EN 50173** | Information technology - Generic cabling systems |
| **IEC 60794-1-1** | Generic Specification Fibre Optic Cables |
| **IEC 60794-1-21** | Mechanical Test Methods |
| **IEC 60794-1-22** | Environmental Test Procedures |
| **EN 50575** | Cables in construction works subject to reaction to fire |
| **IEC 61034-2** | Smoke Density |
| **IEC 60754-2** | Weighted Values of pH and Conductivity |
| **IEC 60332-3** | Bundled fire test |

## APPLICATION PROPERTIES

| | |
|---|---|
| Resistant to UV | |
| Operation temperature (min) [°C]* | -30 and (max) [°C] 60 |
| Installation temperature (min) [°C] | -20 and (max) [°C] 60 |
| Storage temperature (min) [°C] | -30 and (max) [°C] 60 |
| Bending radius (rule) | During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD |

## CABLE CONSTRUCTION

| | |
|---|---|
| Type of tube | |
| Longitudinal water blocking cable | Yes |
| Material outer sheath | Low smoke zero halogen, FireRes® |
| Cable shape | Round |
| Cable marking example | PRYSMIAN UCFIBRE I/O DI LSHF-FR Cca-s1a-d1-a1 ES9 'Fibre count' 'Fibre type' 'Fibre brand' 'Item No' 'Factory No' 'Batch Number' 'Meter mark' U-VQ(ZN)BH 'Fibre count' 'Fibre family' 'Mode field diameter' /125 'Transmission Class' |

## IDENTIFICATION

Tight buffer colour code

*in accordance with IEC 60794-3 and VDE 0888 read more*

** Fibre is uncoloured.*

| | |
|---|---|
| 1 Red | 13 Red w/mark every 70mm |
| 2 Green | 14 Green w/mark every 70mm |
| 3 Blue | 15 Blue w/mark every 70mm |
| 4 Yellow | 16 Yellow w/mark every 70mm |
| 5 White | 17 White w/mark every 70mm |
| 6 Grey | 18 Grey w/mark every 70mm |
| 7 Brown | 19 Brown w/mark every 70mm |
| 8 Violet | 20 Violet w/mark every 70mm |
| 9 Turquoise | 21 Turquoise w/mark every 70mm |
| 10 Black | 22 White w/mark every 35mm |
| 11 Orange | 23 Orange w/mark every 70mm |
| 12 Pink | 24 Pink w/mark every 70mm |

Sheath color

Cable with SM fibres: BendBrightXS G.657.A2, BendBright G.657.A1 Yellow, RAL 1018
Cable with mixed fibre types (hybrid) Blue, RAL 5015
Cable with OM1 Grey, RAL 7037
Cable with MaxCap-BendBright-OM2 Orange, RAL 2009
Cable with MaxCap-BendBright-OM3 Aqua, RAL 6027
Cable with MaxCap-BendBright-OM4 Erika-Violet, RAL 4003
Cable with BendBright WideCap-OM5 Lime-Green, RAL 6039

## MECHANICAL PROPERTIES

| | | |
|---|---|---|
| Crush test | IEC 60794-1-21 E3 | 1,000 N/10cm |
| Impact test | IEC 60794-1-21 E4 | 10 N·m |
| Torsion test | IEC 60794-1-21 E7 | 5 cycles ±1turn |
| Kink test | IEC 60794-1-21 E10 | The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter. |

## FIRE PROPERTIES

| | |
|---|---|
| Flame retardant | In accordance with EN/IEC 60332-3-24 |
| Halogen free | In accordance with EN/IEC 60754-2 |
| The reaction to fire according to the EN 50575 | Cca - s1a, d1, a1 |

## CABLE DETAILS

| Number of fibres | Nominal outer diameter [mm] | Permanent tensile strength [N] | Max. tensile strength during installation [kN] | Cable weight [kg/km] | Fire load [MJ/km] |
|---|---|---|---|---|---|
| 6 | 6.6 | 170 | 0.44 | 49 | 878 |
| 12 | 8 | 300 | 0.9 | 66 | 1,205 |
| 24 | 9.3 | 470 | 1.4 | 91 | 1,654 |

** Maximum tensile strength during installation in accordance with IEC 60794-1-21 E1.*

## ORDERING DETAILS

| Product name | Colour outer sheath | Number of fibres | Category (fibre) | Fibre datasheet | DOP number | SAP code |
|---|---|---|---|---|---|---|
| UCFIBRE I/O DI LSHF-FR ES9 C 24 SM7A1 YL | Yellow | 24 | OS2 | C17 | 1014927 | 60097107 |
| UCFIBRE I/O DI LSHF-FR ES9 C 6 OM3B AQ | Turquoise | 6 | OM3 | C31 | 1012659 | 60093490 |
| UCFIBRE I/O DI LSHF-FR ES9 C 12 OM3B AQ | Turquoise | 12 | OM3 | C31 | 1014926 | 60097106 |
| UCFIBRE I/O DI LSHF-FR ES9 C 6 OM4B EV | Erika-violet | 6 | OM4 | C32 | 1012765 | 60076357 |
| UCFIBRE I/O DI LSHF-FR ES9 C 24 OM4B EV | Erika-violet | 24 | OM4 | C32 | 1012726 | 60071141 |

**DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: DoP*

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