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# D34: UCFIBRE I/O DI LSHF-FR Cca 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.

#### **CABLE FEATURES**

- · Fiber optic cable as mini breakout design for structured cabling.
- The cable is metal-free and longitudinally water blocked.
- It features Draka's ES9 easy strippable tight buffer.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1; for use in public buildings with high personal risk according to Euro fire class Cca,s1a-d1-a1.
- Use outdoors for duct installation and as a flame-retardant cable indoors.
- The fiber optic cable exceeds the requirements of EN50173-1, ISO/IEC11801 and EN/IEC60794-2.

More information on fiber optic cable applications: read more

Latest version of this data sheet is available for download: ProductFamily239143

# **CERTIFICATIONS AND DESIGN STANDARDS**



ISO/IEC 11801

EN 50173

IEC 60794-1-1

IEC 60794-1-21

IEC 60794-1-22

EN 50575

IEC 61034-2

IEC 60754-2 IEC 60332-3-24 Generic telecom cabling for customer premises Information technology - Generic cabling systems

Generic Specification Fibre Optic Cables

Mechanical Test Methods Environmental Test Procedures

Cables in construction works subject to reaction to fire

Smoke Density

Weighted Values of pH and Conductivity

Bundled fire test

### **APPLICATION PROPERTIES**

Resistant to UV

Outdoor installation With rodent protection

Operation temperature (min) [°C]\*
Installation temperature (min) [°C]

Storage temperature (min) [°C]

Bending radius (rule)

No

-30 and (max) [°C] 60

-20 and (max) [°C] 60

-30 and (max) [°C] 60

During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD

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<sup>\*</sup>Temperature range recommended for cable installation, operation and storage tested according to the IEC 60794-1-22 F1.

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#### **CABLE CONSTRUCTION**

Type of tube

Longitudinal water blocking cable

Material outer sheath Low smoke zero halogen, FireRes®

Yes

Cable shape Rour

Cable marking example Draka 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 1 Red 13 Red w/mark every 70mm

in accordance with IEC 60794-3 and VDE 0888 read more 2 Green 14 Green w/mark every 70mm

\* Fibre is uncoloured. 3 Blue 15 Blue w/mark every 70mm

4 Yellow 16 Yellow w/mark every 70mm 5 White 17 White w/mark every 70mm 18 Grey w/mark every 70mm 6 Grey 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 24 Pink w/mark every 70mm 12 Pink

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**

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

Reaction-to-fire class (acc. EN 13501-6)

Smoke development class (acc. EN 13501-6)

Euro class flaming droplets/particles (acc. EN 13501-6)

d1

Euro class acidity (acc. EN 13501-6)

a1

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Draka

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# **CABLE DETAILS**

Number of fibres	Nominal outer diameter [mm]	Nominal thickness outer sheath [mm]	Permanent tensile strength [N]	Max. tensile strength during installation [kN]	Cable weight [kg/km]	Fire load [MJ/km]
6	6.6	1.5	170	0.44	49	878
12	8	1.5	300	0.9	66	1,205
24	9.3	1.5	470	1.4	91	1,654

<sup>\*</sup> 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

<sup>\*</sup>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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