

R01: UCFIBRE I/O CT CST LSHF-FR CI Cca 3.0kN

3000N, CT up to 24 fibres, glass yarns, steel tape, FireRes® sheath





GENERAL INFO

This cable can be used for LAN and WAN backbones, telecom access lines, fibre to business, fibre to the building drop connections and tunnels/galleries; as well as fibre to the home drop and access connections.

With its FireRes® sheathing this cable is ideal for indoor installations.

It is CPR Class Cca cable with high flame retardant and high fire-resistant performances.

The cable with corrugated steel tape armouring is rodent proof.

The cable is well suited for installation in ducts and on trays indoor and shorter outdoor applications.

CABLE FEATURES

- FO cable with central loose tube filled with gel for structured cabling.
- The cable is UV-resistant, with steel tape armoring, longitudinally water blocked and rodent-protected with a tensile strength of 3 0kN
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1-2; IEC60754-1; IEC60754-2; IEC61034-2; EN50399 for use in public buildings with high personal risk and higher Euro fire class Cca s1a d1 a1.
- Fire resistant cable Circuit Integrity according to IEC 60331-25 and EN 50200 PH120.
- · 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/IEC60794-1.

More information on fiber optic cable applications: read more

Latest version of this data sheet is available for download: ProductFamily377131

CERTIFICATIONS AND DESIGN STANDARDS





EN 50399 Class Cca-s1a-d1-a1

ISO/IEC 11801 EN 50173

IEC 60332-1-2 IEC 60332-3-24

EN 50575 IEC 60794-1-1

IEC 60794-1-21 IEC 60794-1-22

IEC 60754-1 IEC 60754-2

IEC 61034-2 EN 50200 IEC 60331-25 Common test methods for cables under fire conditions

Generic telecom cabling for customer premises Information technology - Generic cabling systems

Single wire fire test Bundled fire test

Cables in construction works subject to reaction to fire

Generic Specification Fibre Optic Cables

Mechanical Test Methods Environmental Test Procedures

Toxicity

Weighted Values of pH and Conductivity

Smoke Density

Fire resistance at 830°C during 120min + mechanical impacts Fire resistance at 750°C during 120min + 15min cooling down

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APPLICATION PROPERTIES

Resistant to UV UV stabilised

Outdoor installation With rodent protection Yes

Operation temperature (min) [°C]* -40 and (max) [°C] 70 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 Central tube cable with Ø2.8 mm gel-filled loose tube up to 24fo

Longitudinal water blocking cable Yes

Armouring/reinforcement Steel, galvanised, Armouring tape

Material outer sheath 1.5mm, Low smoke zero halogen, FireRes®

Cable shape Round

Cable marking example Draka UCFIBRE I/O CT CST LSHF-FR CI Cca-s1a-d1-a1 3.0 kN "Fibre count" "Fibre type" "Fibre

brand" "Item No" "Factory Code" "Batch Number" "Meter mark" U-D(ZN)(SR)H "Fibre count" "Fibre

family" "Mode field diameter"/125 "Transmission Class"

IDENTIFICATION

| Fiber color code | 1 Red | 13 Red w/mark every 70mm | |
|---|-------------|--------------------------------|--|
| in accordance with IEC 60794-3 and VDE 0888 | 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 Violett | 20 Violett 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 Rose | 24 Rose w/mark every 70mm | |

Colour outer sheath Orange, RAL 2003

MECHANICAL PROPERTIES

Nominal outer diameter 8.5 mm Cable weight 100 kg/km Fire load 1,182 MJ/km IEC 60794-1-21 E3 2,200 N/10cm Crush test Torsion test * IEC 60794-1-21 E7 5 cycles ±1turn 30 N·m Impact test IEC 60794-1-21 E4 Max. tensile strength during installation IEC 60794-1-21 E1 3,000 N Permanent tensile strength 1,000 N

Kink test IEC 60794-1-21 E10 The cables do not form a kink when a loop is drawn together to a

diameter 20 times the cable nominal diameter.

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^{*}Temperature range recommended for cable installation, operation and storage tested according to the IEC 60794-1-22 F1.

^{*} Longitudinal water blocking test method according to IEC 60794-1-22 F5B and limited to the gell filled cable core.

^{*} Standard torsion test uses 39N weight for real installation approach.



FIRE PROPERTIES

Insulation integrity PH 120
Insulation integrity (acc. IEC 60331) Yes

Flame retardant In accordance with EN/IEC 60332-3-24

Halogen free acc. IEC/EN 60754-1/2
Low smoke acc. IEC/EN 61034-2

Reaction-to-fire class (acc. EN 13501-6)CcaSmoke development class (acc. EN 13501-6)s1aEuro class flaming droplets/particles (acc. EN 13501-6)d1Euro class acidity (acc. EN 13501-6)a1

ORDERING DETAILS

| Product name | Number of fibres | Category (fibre) | Fibre datasheet | DOP number | SAP code |
|---|------------------|---------------------|--------------------|------------|-------------|
| UCFIBRE I/O CT CST LSHF-FR CI 4 SM7A1 2003 | 4 | OS2 | C17 | | R01-4SM7A1 |
| UCFIBRE I/O CT CST LSHF-FR CI 6 SM7A1 2003 | 6 | OS2 | C17 | | R01-6SM7A1 |
| UCFIBRE I/O CT CST LSHF-FR CI 8 SM7A1 2003 | 8 | OS2 | C17 | | R01-8SM7A1 |
| UCFIBRE I/O CT CST LSHF-FR CI 12 SM7A1 2003 | 12 | OS2 | C17 | 1014731 | 60095451 |
| UCFIBRE I/O CT CST LSHF-FR CI 16 SM7A1 2003 | 16 | OS2 | C17 | | R01-16SM7A1 |
| UCFIBRE I/O CT CST LSHF-FR CI 24 SM7A1 2003 | 24 | OS2 | C17 | | R01-24SM7A1 |
| UCFIBRE I/O CT CST LSHF-FR CI 4 OM2B 2003 | 4 | OM2 | C34 | | R01-4OM2 |
| UCFIBRE I/O CT CST LSHF-FR CI 12 OM2B 2003 | 12 | OM2 | C34 | | R01-12OM2 |
| UCFIBRE I/O CT CST LSHF-FR CI 24 OM2B 2003 | 24 | OM2 | C34 | | R01-24OM2 |
| UCFIBRE I/O CT CST LSHF-FR CI 4 OM3B 2003 | 4 | OM3 | C31 | | R01-4OM3 |
| UCFIBRE I/O CT CST LSHF-FR CI 8 OM3B 2003 | 8 | OM3 | C31 | 1014728 | 60096406 |
| UCFIBRE I/O CT CST LSHF-FR CI 12 OM3B 2003 | 12 | OM3 | C31 | | R01-12OM3 |
| UCFIBRE I/O CT CST LSHF-FR CI 24 OM3B 2003 | 24 | OM3 | C31 | | R01-24OM3 |
| UCFIBRE I/O CT CST LSHF-FR CI 4 OM4B 2003 | 4 | OM4 | C32 | | R01-4OM4 |
| UCFIBRE I/O CT CST LSHF-FR CI 12 OM4B 2003 | 12 | OM4 | C32 | | R01-12OM4 |
| UCFIBRE I/O CT CST LSHF-FR CI 24 OM4B 2003 | 24 | OM4 | C32 | | R01-24OM4 |
| UCFIBRE I/O CT CST LSHF-FR CI 4 OM5B 2003 | 4 | OM5 | C39 | | R01-4OM5 |
| UCFIBRE I/O CT CST LSHF-FR CI 12 OM5B 2003 | 12 | OM5 | C39 | | R01-12OM5 |
| UCFIBRE I/O CT CST LSHF-FR CI 24 OM5B 2003 | 24 | OM5 | C39 | | R01-24OM5 |
| UCFIBRE I/O CT CST LSHF-FR CI 4 MM61 2003 | 4 | OM1 | C02 | 1014720 | 60095236 |
| UCFIBRE I/O CT CST LSHF-FR CI 12 MM61 2003 | 12 | OM1 | C02 | | R01-12OM1 |
| UCFIBRE I/O CT CST LSHF-FR CI 24 MM61 2003 | 24 | OM1 | C02 | | R01-24OM1 |

^{*}Items with C17 fibre datasheet available also with SM2D G.652.D/SM7A1 BendBright printing.

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