

R01: UC^{FIBRE} I/O CT CST LSHF-FR CI C_{ca} 3.0kN

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



GENERAL INFO

Fibre optic cable with central loose tube filled with gel for structured cabling. Water-blocked central tube cable up to 24 fibres with glass yarns and corrugated steel tape armour for rodent protection. Use outdoors for duct installation and with its FireRes® sheathing this cable is ideal for indoor installations, high flame retardant and fire resistant. It 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. DIN/VDE: U-D(ZN)(SR)H

More information on fiber optic cable applications: [read more](#)

Latest version of this data sheet is available for download: [ProductFamily377131](#)

CERTIFICATIONS AND DESIGN STANDARDS



ISO/IEC 11801

EN 50173

EN 50575

IEC 60794-1-1

IEC 60794-1-21

IEC 60794-1-22

Generic telecom cabling for customer premises

Information technology - Generic cabling systems

Cables in construction works subject to reaction to fire

Generic Specification Fibre Optic Cables

Mechanical Test Methods

Environmental Test Procedures

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)

UV stabilised

Yes

-40 and (max) [°C] 70

-20 and (max) [°C] 60

-30 and (max) [°C] 60

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

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

CABLE CONSTRUCTION

Type of tube

Longitudinal water blocking cable

Armouring/reinforcement

Material outer sheath

Cable shape

Cable marking example

Central tube cable with Ø2.8 mm gel-filled loose tube up to 24fo

Yes*

Corrugated Steel, galvanised tape + glass Yarns

1.5mm, Low smoke zero halogen, FireRes®

Round

Draka UC^{FIBRE} 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"

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

IDENTIFICATION

Fibre colour code

in accordance with IEC 60794-2 and VDE 0888 [read more](#)

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: BendBrightXSG.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

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

FIRE PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-3-24
Halogen free	In accordance with EN/IEC 60754-2
Low smoke	In accordance with EN/IEC 61034-2
Fire resistance (no fibre break)	In accordance with IEC 60331-25: fire resistance at 750°C during 120min + 15min cooling down In accordance with EN 50200: fire resistance at 830°C during 120min + mechanical impacts
The reaction to fire according to the EN 50575	Cca - s1a, d1, a1

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	DOP number	SAP code
UCFIBRE I/O CT CST LSHF-FR CI 6 SM7A1 YL	6	OS2	C17		R01-6SM7A1
UCFIBRE I/O CT CST LSHF-FR CI 8 SM7A1 YL	8	OS2	C17		R01-8SM7A1
UCFIBRE I/O CT CST LSHF-FR CI 12 SM7A1 YL	12	OS2	C17	1014731	60095451
UCFIBRE I/O CT CST LSHF-FR CI 16 SM7A1 YL	16	OS2	C17		R01-16SM7A1
UCFIBRE I/O CT CST LSHF-FR CI 4 OM2B OR	4	OM2	C34		R01-4OM2B
UCFIBRE I/O CT CST LSHF-FR C 6 OM2B OR	6	OM2	C34	1015731	60100233
UCFIBRE I/O CT CST LSHF-FR CI 12 OM2B OR	12	OM2	C34		R01-12OM2B
UCFIBRE I/O CT CST LSHF-FR CI 24 OM2B OR	24	OM2	C34		R01-24OM2B
UCFIBRE I/O CT CST LSHF-FR C 4 OM3B AQ	4	OM3	C31	1015710	60100175
UCFIBRE I/O CT CST LSHF-FR CI 8 OM3B AQ	8	OM3	C31	1014728	60096406
UCFIBRE I/O CT CST LSHF-FR CI 12 OM3B AQ	12	OM3	C31		R01-12OM3B
UCFIBRE I/O CT CST LSHF-FR CI 4 OM4B EV	4	OM4	C32		R01-4OM4B
UCFIBRE I/O CT CST LSHF-FR CI 12 OM4B EV	12	OM4	C32		R01-12OM4B
UCFIBRE I/O CT CST LSHF-FR CI 24 OM4B EV	24	OM4	C32		R01-24OM4B
UCFIBRE I/O CT CST LSHF-FR CI 4 OM5B LI	4	OM5	C39		R01-4OM5B
UCFIBRE I/O CT CST LSHF-FR CI 12 OM5B LI	12	OM5	C39		R01-12OM5B
UCFIBRE I/O CT CST LSHF-FR CI 24 OM5B LI	24	OM5	C39		R01-24OM5B
UCFIBRE I/O CT CST LSHF-FR CI 4 MM61 SL	4	OM1	C02	1014720	60095236
UCFIBRE I/O CT CST LSHF-FR CI 12 MM61 SL	12	OM1	C02		R01-12OM1B
UCFIBRE I/O CT CST LSHF-FR CI 24 MM61 SL	24	OM1	C02		R01-24OM1B

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