

## E19: UC<sup>FIBRE</sup> I/O CT CST LSHF-FR B2<sub>ca</sub> 3.0KN

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



**B2<sub>ca</sub>  
CPR**

### GENERAL INFO

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

With its FireRes® sheathing and very high flame retardant performance, this cable is ideal for indoor installations.

The cable with corrugated steel tape armoring 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; IEC60332-3-24; IEC60754-1; IEC60754-2; IEC61034; IEC 61034 for use in public buildings with high personal risk and higher Euro fire class B2ca 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 and ISO/IEC11801.

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

Latest version of this data sheet is available for download: [ProductFamily239108](#)

### CERTIFICATIONS AND DESIGN STANDARDS



EN 50399 Class B2ca-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

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

## 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

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

## 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	Corrugated Steel, galvanised tape + glass Yarns
Material outer sheath	1.5mm, Low smoke zero halogen, FireRes®
Cable shape	Round
Cable marking example	Draka UCFIBRE I/O CT CST LSHF-FR B2ca-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 <i>in accordance with IEC 60794-2 and VDE 0888 <a href="#">read more</a></i>	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		1,186 MJ/km
Crush test	IEC 60794-1-21 E3	2,200 N/10cm
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
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	acc. IEC/EN 60754-1/2
Low smoke	acc. IEC/EN 61034-2
Reaction-to-fire class (acc. EN 13501-6)	B2ca
Smoke development class (acc. EN 13501-6)	s1a
Euro class flaming droplets/particles (acc. EN 13501-6)	d1
Euro 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 B2 4 SM7A1 YL	4	OS2	C17	1012732	60071614
UCFIBRE I/O CT CST LSHF-FR B2 6 SM7A1 YL	6	OS2	C17	1012733	60071615
UCFIBRE I/O CT CST LSHF-FR B2 8 SM7A1 YL	8	OS2	C17	1012534	60071735
UCFIBRE I/O CT CST LSHF-FR B2 12 SM7A1 YL	12	OS2	C17	1012573	60084725
UCFIBRE I/O CT CST LSHF-FR B2 12 SM7A1 YL	12	OS2	C17	1012743	60071864
UCFIBRE I/O CT CST LSHF-FR B2 24 SM7A1 YL	24	OS2	C17	1012710	60067059
UCFIBRE I/O CT CST LSHF-FR B2 2 OM2B OR	2	OM2	C34	1012847	60085119
UCFIBRE I/O CT CST LSHF-FR B2 4 OM2B OR	4	OM2	C34	1012785	60077130
UCFIBRE I/O CT CST LSHF-FR B2 12 OM2B OR	12	OM2	C34	1012744	60071903
UCFIBRE I/O CT CST LSHF-FR B2 24 OM2B OR	24	OM2	C34	1012745	60071904
UCFIBRE I/O CT CST LSHF-FR B2 4 OM3 AQ	4	OM3	C31	1012795	60079544
UCFIBRE I/O CT CST LSHF-FR B2 8 OM3B AQ	8	OM3	C31	1012758	60072991
UCFIBRE I/O CT CST LSHF-FR B2 12 OM3B AQ	12	OM3	C31	1012735	60071617
UCFIBRE I/O CT CST LSHF-FR B2 24 OM3B AQ	24	OM3	C31	1012746	60071906
UCFIBRE I/O CT CST LSHF-FR B2 4 OM4B EV	4	OM4	C32	1014631	60095045
UCFIBRE I/O CT CST LSHF-FR B2 8 OM4B EV	8	OM4	C32	1012602	60072992
UCFIBRE I/O CT CST LSHF-FR B2 12 OM4B EV	12	OM4	C32	1012514	60071907
UCFIBRE I/O CT CST LSHF-FR B2 24 OM4B EV	24	OM4	C32	1012572	60071620
UCFIBRE I/O CT CST LSHF-FR B2 12 OM5	12	OM5	C39	-	E19-12OEM5
UCFIBRE I/O CT CST LSHF-FR B2 4 MM61 SL	4	OM1	C02	1012562	60091912

## ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	DOP number	SAP code
UCFIBRE I/O CT CST LSHF-FR B2 6 MM61 SL	6	OM1	C02	1012622	60071833
UCFIBRE I/O CT CST LSHF-FR B2 8 MM61 SL	8	OM1	C02	1012843	60084171
UCFIBRE I/O CT CST LSHF-FR B2 12 MM61 SL	12	OM1	C02	1012763	60075296
UCFIBRE I/O CT CST LSHF-FR B2 24 MM61 SL	24	OM1	C02	1012844	60084240

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