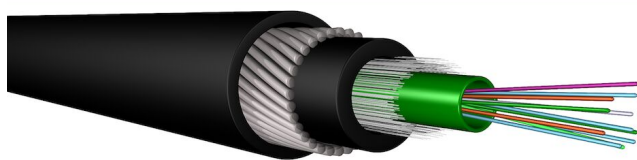


## I102: UC<sup>FIBRE</sup> I/O CT D SWA 09 LSHF E<sub>ca</sub>

Universal, CT, 2-24 fibres, glass yarns, sheath, SWA, Afumex® sheath



**Eca**  
CPR

### GENERAL INFO

This cable can be used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections as well as fibre to the home drop and telecom access connections. With its LSHF sheathing this cable is ideal for mixed indoor and outdoor installation. It is equally suited for installation in ducts and on trays.

### CABLE FEATURES

- FO cable with central loose tube filled with gel for structured cabling.
- The cable is UV-resistant, with steel wire armouring, longitudinally water blocked and rodent-proof with a tensile strength of 3.0kN.
- The jacket is made of halogen-free, flame-retardant material according to IEC 60332-1-2 and Euro fire class Eca.
- Use outdoors, both in direct burial (in sand bed) and in ducts, and as a flame-retardant cable indoors.
- The fiber optic cable exceeds the requirements of EN50173-1, ISO/IEC11801 and EN/IEC60794-6.

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

Latest version of this data sheet is available for download: [ProductFamily238715](#)

### CERTIFICATIONS AND DESIGN STANDARDS

**Eca**  
CPR

**Class Eca**

**ISO/IEC 11801**

**EN 50173**

**IEC 60794-1-1**

**IEC 60794-1-21**

**IEC 60794-1-22**

**EN 50575**

Common test methods for cables under fire conditions

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

### 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] 60

-10 and (max) [°C] 50

-40 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	Central tube with Ø2.3 mm gel-filled loose tubes with up to 12 fibres each
Longitudinal water blocking cable and Radial water blocking cable	Yes
Rip cord	Yes
Material inner sheath	Low smoke zero halogen
Rip cord	Yes
Armouring/reinforcement	Steel, galvanised, Wire, round
Material outer sheath	1.4mm, Low smoke zero halogen,
Cable shape	Round
Cable marking example	Draka I/O CT D SWA 09 LSHF 'Fibre count' 'Fibre type' 'Fibre brand' 'Cable Sap Code' '22' 'production order number' U-D Q (ZN)H W H 'Fibre count' 'Fibre family' 'Mode field diameter' /125 'Transmission Class' 'Meter mark' M

## IDENTIFICATION

Fibre colour code	1 Red	13 Red w/mark every 70mm
<i>in accordance with IEC 60794-2 and VDE 0888 <a href="#">read more</a></i>	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
Colour outer sheath	Black, RAL 9005	

## MECHANICAL PROPERTIES

Crush	IEC 60794-1-21 E3	2,000 N/10cm
Max. tensile strength during installation	IEC 60794-1-21 E1	4,000 N
Permanent tensile strength	IEC 60794-1-21 E1	1,000 N
Impact test	IEC 60794-1-21 E4	15 N·m
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
Kink	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	Yes
Reaction-to-fire class (acc. EN 13501-6)	Eca

## CABLE DETAILS

Number of fibres	Number of fibres per tube	Nominal outer diameter [mm]	Min. bending radius, fixed [mm]	Min. permitted bending radius, during cable laying [mm]	Cable weight [kg/km]	Fire load [MJ/km]
4	4	10.7	107	214	210	3,175
8	8	10.7	107	214	210	3,175
12	12	10.7	107	214	210	3,175
16	16	11.1	111	222	230	3,310
24	24	11.1	111	222	230	3,310

## ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
UCFIBRE I/O CT D SWA 09 LSHF 4 SM7A1	4	OS2	C17	Black		I102-4SM7A1
UCFIBRE I/O CT D SWA 09 LSHF 8 SM7A1	8	OS2	C17	Black		I102-8SM7A1
UCFIBRE I/O CT D SWA 09 LSHF 12 SM7A1	12	OS2	C17	Black		I102-12SM7A1
UCFIBRE I/O CT D SWA 09 LSHF 16 SM7A1	16	OS2	C17	Black		I102-16SM7A1
UCFIBRE I/O CT D SWA 09 LSHF 24 SM7A1	24	OS2	C17	Black		I102-24SM7A1
UCFIBRE I/O CT D SWA 09 LSHF 4 OM3B	4	OM3	C31	Black	1001891	60039903
UCFIBRE I/O CT D SWA 09 LSHF 8 OM3B	8	OM3	C31	Black	1001891	60039904
UCFIBRE I/O CT D SWA 09 LSHF 12 OM3B	12	OM3	C31	Black	1001891	60040044
UCFIBRE I/O CT D SWA 09 LSHF 16 OM3B	16	OM3	C31	Black	1001891	60040045
UCFIBRE I/O CT D SWA 09 LSHF 24 OM3B	24	OM3	C31	Black	1001891	60039905
UCFIBRE I/O CT D SWA 09 LSHF 4 OM4B	4	OM4	C32	Black	1001891	60040049
UCFIBRE I/O CT D SWA 09 LSHF 8 OM4B	8	OM4	C32	Black	1001891	60040050
UCFIBRE I/O CT D SWA 09 LSHF 12 OM4B	12	OM4	C32	Black	1001891	60040051
UCFIBRE I/O CT D SWA 09 LSHF 16 OM4B	16	OM4	C32	Black	1001891	60040052
UCFIBRE I/O CT D SWA 09 LSHF 24 OM4B	24	OM4	C32	Black	1001891	60040053

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

\*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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