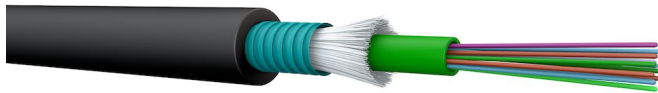


E07a: UC^{FIBRE} I/O CT CST LSHF E_{ca} 3.0kN

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



Eca
CPR

GENERAL INFO

3000N, Ind/Out, unitube up to 24 fibres, glass yarns, steel tape armoring and FireBur® sheath. DIN/VDE: U-D(ZN) (SR)H

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 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/IEC60794-1.

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

Latest version of this data sheet is available for download: [ProductFamily239001](#)

CERTIFICATIONS AND DESIGN STANDARDS

Eca
CPR

ISO/IEC 11801
EN 50173
IEC 60794-1-1
IEC 60794-1-21
IEC 60794-1-22
Class Eca
EN 50575
IEC 60794-6-10

Generic telecom cabling for customer premises
Information technology - Generic cabling systems
Generic Specification Fibre Optic Cables
Mechanical Test Methods
Environmental Test Procedures
Common test methods for cables under fire conditions
Cables in construction works subject to reaction to fire
Family specification for universal indoor-outdoor cables

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	No*
Armouring/reinforcement	Corrugated Steel, galvanised tape + glass Yarns
Material outer sheath	1.5mm, Low smoke zero halogen, FireBur®
Cable shape	Round
Cable marking example	Draka UCFIBRE I/O CT CST LSHF 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 gell filled cable core.

IDENTIFICATION

Fibre colour cde	1 Red	13 Red w/mark every 70mm
<i>in accordance with IEC 60794-2 and VDE 0888 read more</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

MECHANICAL PROPERTIES

Nominal outer diameter		8.5 mm
Cable weight		87 kg/km
Fire load		1,379 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	Yes
Reaction-to-fire class (acc. EN 13501-6)	Eca

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
UCFIBRE I/O CT CST LSHF 3kN 8 SM7A1 BL	8	OS2	C17	Blue	1008927	60077591
UCFIBRE I/O CT CST LSHF 3kN 12 SM7A1 BL	12	OS2	C17	Blue	1001586	60018759
UCFIBRE I/O CT CST LSHF 3kN 24 SM7A1 BL	24	OS2	C17	Blue	1007601	60071179
UCFIBRE I/O CT CST LSHF 3kN 4 OM2B BL	4	OM2	C34	Blue	1004803	60042298
UCFIBRE I/O CT CST LSHF 3kN 6 OM4B BL	6	OM4	C32	Blue		60111253
UCFIBRE I/O CT CST LSHF 3kN 12 OM5B BL	12	OM5	C39	Blue		60105329
UCFIBRE I/O CT CST LSHF 3.0 kN 2 MM61 BL	2	OM1	C02	Blue		60105259
UCFIBRE I/O CT CST LSHF 3kN 4 MM61 BL	4	OM1	C02	Blue	1001584	60018753

**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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