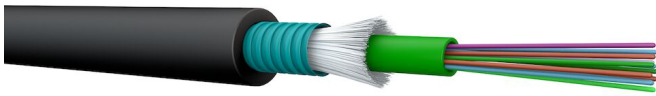


E07a: UC^{FIBRE} I/O CT CST LSHF E_{ca} 3.0kN

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



Eca
CPR

GENERAL INFO

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 a flame retardant solution ideal for indoor installations. It can be used for LAN and WAN backbones, telecom access lines, fibre to business, fibre to the building drop connections as well as fibre to the home drop and access connections. DIN/VDE: U-D(ZN)(SR)H

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
EN 50575
IEC 60794-6-10

Generic telecom cabling for customer premises
Information technology - Generic cabling systems
Generic Specification Fibre Optic Cables
Cables in construction works subject to reaction to fire
Family specification for universal indoor-outdoor cables

APPLICATION PROPERTIES

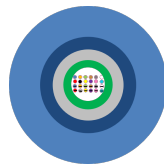
Resistant to UV
Outdoor installation With rodent protection
Operation temperature (min) [°C]
Installation temperature (min) [°C]
Storage temperature (min) [°C]
Bending radius (rule)

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

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, FireBur®
Cable shape	Round
Cable marking example	PRYSMIAN UC FIBRE 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 gel 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 according to IEC 60332-1-2	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 SM7A1 BK	4	OS2	C24	Black	1002462	60027087
UCFIBRE I/O CT CST LSHF 3kN 8 SM7A1 BK	8	OS2	C24	Black	1002460	60025893
UCFIBRE I/O CT CST LSHF 3kN 12 SM7A1 BK	12	OS2	C24	Black	1002451	60020206
UCFIBRE I/O CT CST LSHF 3kN 4 OM2B BL	4	OM2	C34	Blue	1004803	60042298
UCFIBRE I/O CT CST LSHF 3kN 4 OM2B BK	4	OM2	C34	Black	1004790	60026599
UCFIBRE I/O CT CST LSHF 3kN 8 OM2B BK	8	OM2	C34	Black	1004783	60020527
UCFIBRE I/O CT CST LSHF 3kN 12 OM2B BK	12	OM2	C34	Black	1002456	60024971
UCFIBRE I/O CT CST LSHF 3kN 24 OM2B BK	24	OM2	C34	Black	1004787	60071393
UCFIBRE I/O CT CST LSHF 3kN 4 OM3B BK	4	OM3	C31	Black	1007741	60071562
UCFIBRE I/O CT CST LSHF 3kN 8 OM3B BK	8	OM3	C31	Black	1002454	60020748
UCFIBRE I/O CT CST LSHF 3.0kN 8 OM3B BL	8	OM3	C31	Blue	1020113	60118013
UCFIBRE I/O CT CST LSHF 3kN 12 OM3B BK	12	OM3	C31	Black	1002452	60020268
UCFIBRE I/O CT CST LSHF 3kN 24 OM3B BK	24	OM3	C31	Black	1015081	60071397
UCFIBRE I/O CT CST LSHF 3kN 4 OM4B BK	4	OM4	C32	Black	1002469	60047371
UCFIBRE I/O CT CST LSHF 3kN 6 OM4B BL	6	OM4	C32	Blue	1018861	60111253
UCFIBRE I/O CT CST LSHF 3kN 8 OM4B BK	8	OM4	C32	Black	1002463	60032040
UCFIBRE I/O CT CST LSHF 3kN 12 OM4B BK	12	OM4	C32	Black	1005752	60038327
UCFIBRE I/O CT CST LSHF 3kN 24 OM4B BK	24	OM4	C32	Black	1007648	60071411
UCFIBRE I/O CT CST LSHF 3kN 12 OM5B BL	12	OM5	C39	Blue	1016692	60105329
UCFIBRE I/O CT CST LSHF 3.0 kN 2 MM61 BL	2	OM1	C02	Blue	1016623	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](#)

© PRYSMIAN 2025, all rights reserved. All sizes and values without tolerances are reference values. Specifications are for product as supplied by PRYSMIAN: any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of PRYSMIAN. The information is believed to be correct at the time of issue. PRYSMIAN reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorized by PRYSMIAN.