

E29: UC^{FIBRE} I/O CT LSHF-FR C_{ca} 2.0KN

2000N, CT up to 24 fibres, glass yarns, FireRes®sheath



GENERAL INFO

Fibre optic cable with central loose tube filled with gel and up to 24 fibres for structured cabling. It features 2000N tensile strength for indoor and outdoor applications and dielectric design with glass yarns armour, longitudinally water blocked, grade of rodent-proof and FireRes® sheath with high flame retardant performance, ideal for indoor installations. This unitube 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 access connections. DIN/VDE: U-DQ(ZN)BH

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

Latest version of this data sheet is available for download: [ProductFamily377659](#)

CERTIFICATIONS AND DESIGN STANDARDS



IEC 60754-2

IEC 60794-1-22

IEC 60794-1-21

IEC 60794-1-1

EN 50575

IEC 60332-1-2

ISO/IEC 11801

EN 50173

EN 50399 Class Cca-s1a-d1-a1

IEC 60794-6-10

IEC 61034-2

IEC 60332-3-24

Weighted Values of pH and Conductivity

Environmental Test Procedures

Mechanical Test Methods

Generic Specification Fibre Optic Cables

Cables in construction works subject to reaction to fire

Single wire fire test

Generic telecom cabling for customer premises

Information technology - Generic cabling systems

Common test methods for cables under fire conditions

Family specification for universal indoor-outdoor cables

Smoke Density

Bundled fire test

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

-30 and (max) [°C] 70

-15 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	Gel-filled loose tube Ø2.8mm for 2fo up to 24fo
Water blocked	Yes
Rip cord	Yes
Armouring/reinforcement	E-glass yarns
Material outer sheath	1mm, Low smoke zero halogen, FireRes®
Cable shape	Round
Cable marking example	Draka UCFIBRE I/O CT LSHF-FR Cca-s1a-d1-a1 2.0 kN 'Fibre count' 'Fibre type' 'Fibre brand' 'Item No' 'Factory Code' 'Batch Number' 'Meter mark' U-DQ(ZN)BH 'Fibre count' 'Fibre family' 'Mode field diameter' /125 'Transmission Class'

IDENTIFICATION

Fibre colour code	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
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		6.5 mm
Cable weight		49 kg/km
Fire load		822 MJ/km
Crush test (1min, reversible)	IEC 60794-1-21 E3	1,000 N/10cm
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
Impact test	IEC 60794-1-21 E4	10 N·m
Max. tensile strength during installation	IEC 60794-1-21 E1	2,000 N
Permanent tensile strength	IEC 60794-1-21 E1	600 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
Water penetration	IEC 60794-1-22 F5B	No water on free end

FIRE PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-3-24
Halogen free	acc. IEC/EN 60754-2
Low smoke	acc. IEC/EN 61034-2
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 LSHF-FR C 2kN 4 SM7A1 YL	4	OS2	C17		E29-4SM7A1
UCFIBRE I/O CT LSHF-FR C 2kN 4 SM7A2 YL	4	OS2	C17		E29-4SM7A2
UCFIBRE I/O CT LSHF-FR C 2kN 6 SM7A2 YL	6	OS2	C17		E29-6SM7A2
UCFIBRE I/O CT LSHF-FR C 2kN 6 SM7A1 YL	6	OS2	C17		E29-6SM7A1
UCFIBRE I/O CT LSHF-FR C 2kN 12 SM7A1 YL	12	OS2	C17		E29-12SM7A1
UCFIBRE I/O CT LSHF-FR C 2kN 12 SM7A2 YL	12	OS2	C17		E29-12SM7A2
UCFIBRE I/O CT LSHF-FR C 2kN 24 SM7A1 YL	16	OS2	C17		E29-24SM7A1
UCFIBRE I/O CT LSHF-FR C 2kN 24 SM7A2 YL	24	OS2	C17		E29-24SM7A2
UCFIBRE I/O CT LSHF-FR C 2kN 4 OM3B AQ	4	OM3	C31		E29-4OM3B
UCFIBRE I/O CT LSHF-FR C 2kN 12 OM3B AQ	12	OM3	C31		E29-12OM3B
UCFIBRE I/O CT LSHF-FR C 2kN 24 OM3B AQ	24	OM3	C31		E29-24OM3B
UCFIBRE I/O CT LSHF-FR C 2kN 4 OM4B EV	4	OM4	C32		E29-4OM4B
UCFIBRE I/O CT LSHF-FR C 2kN 12 OM4B EV	12	OM4	C32		E29-12OM4B
UCFIBRE I/O CT LSHF-FR C 2kN 24 OM4B EV	24	OM4	C32		E29-24OM4B
UCFIBRE I/O CT LSHF-FR C 2kN 4 OM5B LI	4	OM5	C39		E29-4OM5B
UCFIBRE I/O CT LSHF-FR C 2kN 12 OM5B LI	12	OM5	C39		E29-12OM5B
UCFIBRE I/O CT LSHF-FR C 2kN 24 OM5B LI	24	OM5	C39		E29-24OM5B

© PRYSMIAN GROUP 2022, all rights reserved. All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: 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 Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorized by Prysmian Group.