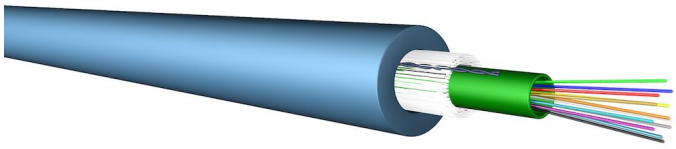
E14a: UC^{FIBRE} I/O CT LSHF E_{ca} 2.0KN

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



E_{ca} CPR

GENERAL INFO

Fibre optic cable with central loose tube filled with gel and up to 24 fibres for structured cabling. It features 2000N tensile strenght for indoor and outdoor applications and dieletric design with glass yarns armour, longitudinally water blocked and FireBur® flame retardant sheath. Use outdoors, both in direct burial (in sand bed) and in ducts, and as a flame-retardant cable indoors. DIN/VDE: U-DQ(ZN)BH

Latest version of this data sheet is available for download: ProductFamily239076

CERTIFICATIONS AND DESIGN STANDARDS

ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology - Generic cabling systems
IEC 60794-1-1	Generic Specification Fibre Optic Cables
IEC 60794-1-21	Mechanical Test Methods
IEC 60794-1-22	Environmental Test Procedures
EN 50575	Cables in construction works subject to reaction to fire
IEC 60794-6-10	Family specification for universal indoor-outdoor cables

APPLICATION PROPERTIES

Resistant to UV	UV stabilised
Outdoor installation With rodent protection	Yes
Operation temperature (min) [°C]	-30 and (max) [°C] 60
Installation temperature (min) [°C]	-15 and (max) [°C] 40
Storage temperature (min) [°C]	-30 and (max) [°C] 60
Bending radius (rule)	During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD

CABLE CONSTRUCTION

Type of tube	Gel-filled loose tube Ø2.8mm for 2fo up to 24fo 250µm
Longitudinal water blocking construction	Yes
Rip cord	Yes
Armouring/reinforcement	E-glass yarns
Material outer sheath	Low smoke zero halogen, FireBur®
Cable marking example	PRYSMIAN UCFIBRE I/O CT LSHF 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 cde *in accordance with IEC 60794-2 and VDE 0888 read more*	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

MECHANICAL PROPERTIES

Nominal outer diameter		5.8 mm
Cable weight		33.6 kg/km
Fire load		864 MJ/km
Crush test (1min, reversible)	IEC 60794-1-21 E3	2,000 N/10cm
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
Impact test	IEC 60794-1-21 E4	15 N·m
Max. tensile strength during installation	IEC 60794-1-21 E1	2,000 N
Permanent tensile strength	IEC 60794-1-21 E1	750 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	acc. IEC/EN 60332-1-2
Halogen free	acc. IEC/EN 60754-2
The reaction to fire according to the EN 50575	Eca

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
UCFIBRE I/O CT LSHF 2.0kN 2 SM7A1 BL	2	OS2	C17	Blue	1007862	60019305
UCFIBRE I/O CT LSHF 2.0kN 4 SM7A1 BL	4	OS2	C17	Blue	1004732	60011327
UCFIBRE I/O CT LSHF 2.0kN 6 SM7A1 BL	6	OS2	C17	Blue	1002394	60011330
UCFIBRE I/O CT LSHF 2.0kN 8 SM7A1 BL	8	OS2	C17	Blue	1002390	60011304
UCFIBRE I/O CT LSHF 2.0kN 8 SM7A1	8	OS2	C17	Blue	1002429	60033659
UCFIBRE I/O CT LSHF 2.0kN 12 SM7A1 BL	12	OS2	C17	Blue	1004785	60024865
UCFIBRE I/O CT LSHF 2.0kN 12 SM7A1 BK	12	OS2	C17	Black	1006912	60066411
UCFIBRE I/O CT LSHF 2.0kN 12 SM7A1	12	OS2	C17	Blue	1004796	60037350
UCFIBRE I/O CT LSHF 2.0kN 16 SM7A1	16	OS2	C17	Blue	1002398	60011335
UCFIBRE I/O CT LSHF 2.0kN 24 SM7A1 BL	24	OS2	C17	Blue	1008340	60073062
UCFIBRE I/O CT LSHF 2.0kN 4 SM7B BL	4	OS2	C24	Blue	1004769	60019522
UCFIBRE I/O CT LSHF 2.0KN 12 SM7B BL	12	OS2	C24	Blue	1004830	60060409
UCFIBRE I/O CT LSHF 2.0kN 8SM7A1 8OM3B	16	OS2+OM3	C17;C31	Blue	1006562	60020751
UCFIBRE I/O CT LSHF 2.0kN 8SM7A1 8OM4B BL	16	OS2+OM4	C17;C32	Blue	1008811	60076923
UCFIBRE I/O CT LSHF 2.0kN 4 OM2B BL	4	OM2	C34	Blue	1002406	60018814
UCFIBRE I/O CT LSHF 2.0kN 6 OM2B BL	6	OM2	C34	Blue	1002407	60018815
UCFIBRE I/O CT LSHF 2.0kN 8 OM2B BL	8	OM2	C34	Blue	1002401	60018780
UCFIBRE I/O CT LSHF 2.0kN 12 OM2B BL	12	OM2	C34	Blue	1002397	60011400
UCFIBRE I/O CT LSHF 2.0kN 24 OM2B BL	24	OM2	C34	Blue	1008123	60073246
UCFIBRE I/O CT LSHF 2.0kN 4 OM3B BL	4	OM3	C31	Blue	1002410	60018863
UCFIBRE I/O CT LSHF 2.0kN 6 OM3B BK	6	OM3	C31	Black	1009910	60081378
UCFIBRE I/O CT LSHF 2.0kN 6 OM3B BL	6	OM3	C31	Blue	1002391	60011320
UCFIBRE I/O CT LSHF 2.0kN 8 OM3B BL	8	OM3	C31	Blue	1002402	60018784
UCFIBRE I/O CT LSHF 2.0kN 12 OM3B	12	OM3	C31	Blue	1002403	60018785
UCFIBRE I/O CT LSHF 2.0kN 24 OM3B BL	24	OM3	C31	Blue	1008125	60073248
UCFIBRE I/O CT LSHF 2.0kN 4 OM4B BL	4	OM4	C32	Blue	1002414	60019938
UCFIBRE I/O CT LSHF 2.0kN 6 OM4B BL	6	OM4	C32	Blue	1002420	60020010
UCFIBRE I/O CT LSHF 2.0kN 8 OM4B BL	8	OM4	C32	Blue	1008851	60076862
UCFIBRE I/O CT LSHF 2.0kN 12 OM4B	12	OM4	C32	Blue	1002411	60019481
UCFIBRE I/O CT LSHF 2.0kN 24 OM4B BL	24	OM4	C32	Blue	1008122	60073244
UCFIBRE I/O CT LSHF 2.0kN 4 MM61 BL	4	OM1	C02	Blue	1002399	60018735
UCFIBRE I/O CT LSHF 2.0kN 8 MM61 BL	8	OM1	C02	Blue	1002400	60018738
UCFIBRE I/O CT LSHF 2.0kN 12 MM61 BK	12	OM1	C02	Black	1002436	60044942
UCFIBRE I/O CT LSHF 2.0kN 12 MM61 BL	12	OM1	C02	Blue	1004740	60018841
UCFIBRE I/O CT LSHF 2.0kN 24 MM61	24	OM1	C02	Blue	1008124	60073247

**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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