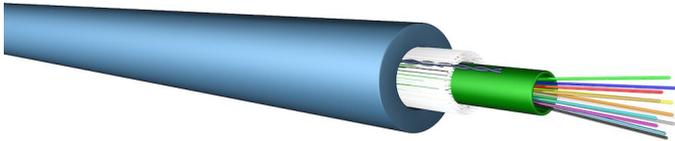


E10a: UC^{FIBRE} I/O CT LSHF E_{ca} 3.0KN

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



Eca
CPR

GENERAL INFO

Fibre optic cable with central loose tube filled with gel and up to 24 fibres for structured cabling. It features 3000N tensile strength for indoor and outdoor applications and dielectric design with glass yarns armour, longitudinally water blocked, rodent protected and FireBur® flame retardant sheath. 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 access connections. 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

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

Latest version of this data sheet is available for download: [ProductFamily239034](#)

CERTIFICATIONS AND DESIGN STANDARDS



ISO/IEC 11801

EN 50173

IEC 60794-1-1

IEC 60794-1-21

IEC 60794-1-22

EN 50575

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	Good
Outdoor installation With rodent protection	Yes
Operation temperature (min) [°C]*	-30 and (max) [°C] 70
Installation temperature (min) [°C]	-15 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 FI.

CABLE CONSTRUCTION

Type of tube	Gel-filled loose tube Ø2.8mm for 2fo up to 24fo
Longitudinal water blocking construction	Yes
Rip cord	Yes
Armouring/reinforcement	E-glass yarns
Material outer sheath	Low smoke zero halogen, FireBur®
Cable marking example	UCFIBRE I/O CT LSHF 3.0 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

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		7.5 mm
Cable weight		51.7 kg/km
Fire load		1,285 MJ/km
Crush test (1min, reversible)	IEC 60794-1-21 E3	3,500 N/10cm
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
Impact test	IEC 60794-1-21 E4	20 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
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 3kN 4 SMA1 BL	4	OS2	C17	Blue	1004734	60011347
UCFIBRE I/O CT LSHF 3kN 6 SM7A1 BL	6	OS2	C17	Blue	1011863	60090733
UCFIBRE I/O CT LSHF 3kN 6 SMA1 BL	6	OS2	C17	Blue	1004760	60019357
UCFIBRE I/O CT LSHF 3kN 12 SMA1 BL	12	OS2	C17	Blue	1003947	60011299
UCFIBRE I/O CT LSHF 3kN 24 SMA1 BL	24	OS2	C17	Blue	1008133	60073057
UCFIBRE I/O CT LSHF 3kN 4 SM7B BL	4	OS2	C24	Blue	1004767	60019486
UCFIBRE I/O CT LSHF 3kN 12 SM7B BL	12	OS2	C24	Blue	1006000	60026301
UCFIBRE I/O CT LSHF 3kN 24 SM7B BL	24	OS2	C24	Blue	1008172	60073169
UCFIBRE I/O CT LSHF 3kN 4 OM2B BL	4	OM2	C34	Blue	1003976	60011391
UCFIBRE I/O CT LSHF 3kN 6 OM2B BL	6	OM2	C34	Blue	1003977	60011393
UCFIBRE I/O CT LSHF 3kN 8 OM2B BL	8	OM2	C34	Blue	1003974	60011379
UCFIBRE I/O CT LSHF 3kN 12 OM2B BL	12	OM2	C34	Blue	1003978	60011395
UCFIBRE I/O CT LSHF 3kN 24 OM2B BL	24	OM2	C34	Blue	1008132	60073056
UCFIBRE I/O CT LSHF 3kN 4 OM3B BL	4	OM3	C31	Blue	1003946	60011297
UCFIBRE I/O CT LSHF 3kN 6 OM3B BL	6	OM3	C31	Blue	1004791	60026796
UCFIBRE I/O CT LSHF 3kN 8 OM3B BL	8	OM3	C31	Blue	1003948	60011301
UCFIBRE I/O CT LSHF 3kN 12 OM3B BL	12	OM3	C31	Blue	1003970	60011342
UCFIBRE I/O CT LSHF 3kN 24 OM3B BL	24	OM3	C31	Blue	1008130	60073054
UCFIBRE I/O CT LSHF 3kN 4 OM4B BL	4	OM4	C32	Blue	1004755	60019165
UCFIBRE I/O CT LSHF 3kN 6 OM4B BL	6	OM4	C32	Blue	1004756	60019179
UCFIBRE I/O CT LSHF 3kN 8 OM4B BL	8	OM4	C32	Blue	1004775	60019875
UCFIBRE I/O CT LSHF 3kN 12 OM4B BL	12	OM4	C32	Blue	1004735	60011420
UCFIBRE I/O CT LSHF 3kN 24 OM4B BL	24	OM4	C32	Blue	1008131	60073055
UCFIBRE I/O CT LSHF 3kN 4 OM5B BL	4	OM5	C39	Blue	1004833	60060672
UCFIBRE I/O CT LSHF 3kN 12 OM5B BL	12	OM5	C39	Blue	1004835	60060674
UCFIBRE I/O CT LSHF 3kN 24 OM5B BL	24	OM5	C39	Blue	1008134	60073060
UCFIBRE I/O CT LSHF 3kN 4 MM61 BL	4	OM1	C02	Blue	1004730	60009196
UCFIBRE I/O CT LSHF 3kN 6 MM61 BL	6	OM1	C02	Blue	1003985	60019294
UCFIBRE I/O CT LSHF 3kN 8 MM61 BL	8	OM1	C02	Blue	1003971	60011345
UCFIBRE I/O CT LSHF 3kN 12 MM61 BL	12	OM1	C02	Blue	1003980	60018732
UCFIBRE I/O CT LSHF 3kN 24 MM61 BL	24	OM1	C02	Blue	1008150	60073107
UCFIBRE I/O CT LSHF 3kN 8OM4B+8G657A1 BL	16	OS2+OM4	C17;C32	Blue	1008192	60073489