

R02: UCFIBRE I/O CT CST LSHF-FR CI B2_{ca} 3.0KN

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



B2_{ca} CPR

GENERAL INFO

Fibre optic cable with central loose tube filled with gel for structured cabling, it is UV stabilized with corrugated steel tape armoring, longitudinally water blocked, rodent-protected and it uses FireRes® sheath. Use outdoors for duct installation and as a flame-retardant cable indoors, well suited solution for tunnels and galleries and for use in public buildings with high personal risk. High CPR rated and fire resistant solution. DIN/VDE:U-D(ZN)(SR)H

Yes

More information on fiber optic cable applications: read more

Latest version of this data sheet is available for download: ProductFamily377131

CERTIFICATIONS AND DESIGN STANDARDS





ISO/IEC 11801 EN 50173 EN 50575 IEC 60794-1-1 IEC 60794-1-21 IEC 60794-1-22

IEC 60794-6-10

Generic telecom cabling for customer premises Information technology - Generic cabling systems Cables in construction works subject to reaction to fire

Generic Specification Fibre Optic Cables

Mechanical Test Methods Environmental Test Procedures

Family specification for universal indoor-outdoor cables

APPLICATION PROPERTIES

Resistant to UV UV stabilised

Outdoor installation With rodent protection

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.

DE10_R02_20250130 P1



CABLE CONSTRUCTION

Central tube cable with Ø2.8 mm gel-filled loose tube up to 24fo Type of tube

Longitudinal water blocking cable

Armouring/reinforcement Corrugated Steel, galvanised tape + glass Yarns Material outer sheath 1.5mm, Low smoke zero halogen, FireRes®

Cable shape Round

Cable marking example Draka UCFIBRE I/O CT CST LSHF-FR CI B2ca-sla-d1-al 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'

IDENTIFICATION

1 Red 13 Red w/mark every 70mm Fiber color code in accordance with IEC 60794-3 and VDE 0888 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 Violett 20 Violett 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 24 Rose w/mark every 70mm 12 Rose

Colour outer sheath Orange, RAL 2003

MECHANICAL PROPERTIES

Nominal outer diameter 85 mm Cable weight 100 kg/km Fire load 1,182 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 IFC 60794-1-21 F1 3000 N Permanent tensile strength IEC 60794-1-21 E1 1,000 N

The cables do not form a kink when a loop is drawn together Kink test IEC 60794-1-21 E10

to a diameter 20 times the cable nominal diameter.

FIRE PROPERTIES

Flame retardant In accordance with EN/IEC 60332-3-24 In accordance with EN/IEC 60754-2 Halogen free In accordance with EN/IEC 61034-2 Low smoke

In accordance with IEC 60331-25: fire resistance at 750°C during 120min + 15min Fire resistance (no fibre break)

cooling down

B2ca - s1a, d1, a1

In accordance with EN 50200: fire resistance at 830°C during 120min + mechanical

The reaction to fire according to the EN

50575

DE10 R02 20250130

P 2

^{*}Longitudinal water blocking test method according to IEC 60794-1-22 F5B and limited to the gell filled cable core.



ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	DOP number	SAP code
UCFIBRE I/O CT CST LSHF-FR CI B2 6 SM7A1 OR	6	OS2	C17		R02-6SM7A1
UCFIBRE IO CT CST LSHFFR CI B2 8 SM7A1	8	OS2	C17	1016035	60102065
UCFIBRE IO CT CST LSHFFR CI B2 12 SM7A1	12	OS2	C17	1016036	60102066
UCFIBRE I/O CT CST LSHF-FR CI B2 16 SM7A1 OR	16	OS2	C17		R02-16SM7A1
UCFIBRE IO CT CST LSHFFR CI B2 24 SM7A1	24	OS2	C17	1016033	60102000
UCFIBRE IO CT CST LSHFFR CI B2 4 MM61 OR	4	OM1	C02	1019290	60113532
UCFIBRE IO CT CST LSHFFR CI B2 8 MM61 OR	8	OM1	C02	1019097	60113011
UCFIBRE IO CT CST LSHFFR CI B2 4 OM2B OR	4	OM2	C34	1019343	60114415
UCFIBRE I/O CT CST LSHF-FR CI B2 12 OM2B OR	12	OM2	C34		R02-12OM2B
UCFIBRE I/O CT CST LSHF-FR CI B2 24 OM2B OR	24	OM2	C34		R02-24OM2B
UCFIBRE I/O CT CST LSHF-FR CI B2 4 OM3B OR	4	ОМ3	C31		R02-4OM3B
UCFIBRE IO CT CST LSHFFR CI B2 8 OM3B OR	8	ОМ3	C31	1016032	60102029
UCFIBRE IO CT CST LSHFFR CI B2 12 OM3B	12	ОМ3	C31	1016031	60102010
UCFIBRE IO CT CST LSHFFR CI B2 24 OM3B	24	ОМ3	C31	1016034	60102036
UCFIBRE IO CT CST LSHFFR CI B2 4 OM4B OR	4	OM4	C32	1018981	60111910
UCFIBRE IO CT CST LSHFFR CI B2 8 OM4B OR	8	OM4	C32	1019225	60113758
UCFIBRE IO CT CST LSHFFR CI B2 12 OM4B	12	OM4	C32	1016315	60103718
UCFIBRE I/O CT CST LSHF-FR CI B2 24 OM4B OR	24	OM4	C32		R02-24OM4B
UCFIBRE I/O CT CST LSHF-FR CI B2 4 OM5B OR	4	OM5	C39		R02-4OM5B
UCFIBRE I/O CT CST LSHF-FR CI B2 12 OM5B OR	12	OM5	C39		R02-12OM5B
UCFIBRE I/O CT CST LSHF-FR CI B2 24 OM5B OR	24	OM5	C39		R02-24OM5B
UCFIBRE IO CT CST LSHFFR CI B2 4 A1 OR	4	OS2	C17	1017832	60106322
UCFIBRE I/O CT CST LSHF-FR CI B2 12 MM61 OR	12	OM1	C02		R02-12MM61

DEI0_R02_20250130 P 3

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