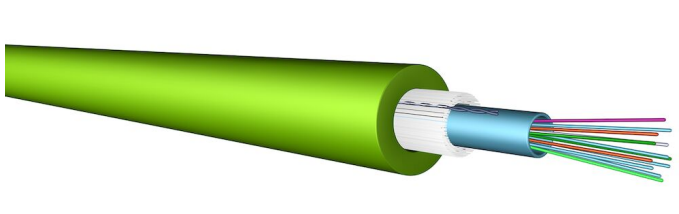


E20: UC^{FIBRE} I/O CT LSHF-FR D_{ca} 3.0kN

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



GENERAL INFO

3000N, In/Out metal-free, Class Dca, gel-filled, water-blocked central tube cable, up to 24 fibres, glass yarn dielectric armouring and FireRes®sheath. DIN/VDE:U-DQ(ZN)BH

CABLE FEATURES

- FO cable with central loose tube filled with gel for structured cabling.
- The cable is metal-free, longitudinally water blocked, rodent-proof with a tensile strength of 3.0kN.
- The jacket is made of halogen-free, flame-retardant material according to IEC 60332-1-2 and Euro fire class Dca s2d2a1.
- Use outdoors for underground installation in ducts and as a flame-retardant cable indoors.
- The fiber optic cable exceeds the requirements of EN50173-1, ISO/IEC11801 and EN/IEC60794-1.

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

Latest version of this data sheet is available for download: [ProductFamily239116](#)

CERTIFICATIONS AND DESIGN STANDARDS



ISO/IEC 11801
EN 50173
IEC 60794-1-1
IEC 60794-1-21
IEC 60794-1-22
IEC 60332-1-2
IEC 60754-2
EN 50575
IEC 60794-6-10

Generic telecom cabling for customer premises
Information technology - Generic cabling systems
Generic Specification Fibre Optic Cables
Mechanical Test Methods
Environmental Test Procedures
Single wire fire test
Weighted Values of pH and Conductivity
Cables in construction works subject to reaction to fire
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] 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 F1.

CABLE CONSTRUCTION

Type of tube	Gel-filled loose tube Ø2.8mm for 2fo up to 24fo
Longitudinal water blocking cable and Radial water blocking cable	Yes
Rip cord	Yes
Armouring/reinforcement	E-glass yarns
Material outer sheath	1.5mm, Low smoke zero halogen, FireRes®
Cable shape	Round
Cable marking example	Draka UCFIBRE I/O CT LSHF-FR Dca-s2-d1-a1 3.0 kN 'Fibre count ' 'Fibre type ' 'Fibre brand ' 'Item No ' 'Factory No ' 'Batch Number ' 'Meter mark ' U-DQ(ZN)BH 'Fibre count ' 'Fibre family ' 'Core diameter ' /125 'Transmission Class '

IDENTIFICATION

Fibre colour code <i>in accordance with IEC 60794-2 and VDE 0888 read more</i>	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

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		7.3 mm
Cable weight		64.5 kg/km
Fire load		1,373 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	No water on free end

FIRE PROPERTIES

Flame retardant	Yes
Reaction-to-fire class (acc. EN 13501-6)	Dca
Smoke development class (acc. EN 13501-6)	s2
Euro class flaming droplets/particles (acc. EN 13501-6)	d2
Euro class acidity (acc. EN 13501-6)	a1

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	DOP number	SAP code
UCFIBRE I/O CT LSHF-FR 3.0kN 4 SM7A1 YL	4	OS2	C17	1006747	60066049
UCFIBRE I/O CT LSHF-FR 3.0kN 6 SM7A1 YL	6	OS2	C17	1011950	60090757
UCFIBRE I/O CT LSHF-FR 3.0kN 8 SM7A1 YL	8	OS2	C17	1006748	60066050
UCFIBRE I/O CT LSHF-FR 3.0kN 12 SM7A1 YL	12	OS2	C17	1006749	60066051
UCFIBRE I/O CT LSHF-FR 3.0kN 16 SM7A1 YL	16	OS2	C17	1014816	60096654
UCFIBRE I/O CT LSHF-FR 3.0kN 24 SM7A1 YL	24	OS2	C17	1011803	60090670
UCFIBRE I/O CT LSHF-FR 3.0kN 8 SM7B.P YL	8	OS2	C25	1004822	60060231
UCFIBRE I/O CT LSHF-FR 3.0kN 12 SM7B.P	12	OS2	C25	1004821	60060230
UCFIBRE I/O CT LSHF-FR 3.0kN 6 OM2B OR	6	OM2	C34	1004848	60061208
UCFIBRE I/O CT LSHF-FR 3.0kN 8 OM2B OR	8	OM2	C34	1015113	60094438
UCFIBRE I/O CT LSHF-FR 3.0kN 4 OM3B AQ	4	OM3	C31	1004823	60060232
UCFIBRE I/O CT LSHF-FR 3.0kN 6 OM3B AQ	6	OM3	C31	1004849	60061211
UCFIBRE I/O CT LSHF-FR 3.0kN 8 OM3B AQ	8	OM3	C31	1004824	60060271
UCFIBRE I/O CT LSHF-FR 3.0kN 12 OM3B AQ	12	OM3	C31	1004825	60060272
UCFIBRE I/O CT LSHF-FR 3.0kN 24 OM3B AQ	24	OM3	C31	1008341	60073151
UCFIBRE I/O CT LSHF-FR 3.0kN 4 OM4B EV	4	OM4	C32	1004826	60060273
UCFIBRE I/O CT LSHF-FR 3.0kN 6 OM4B EV	6	OM4	C32	1005412	60062233
UCFIBRE I/O CT LSHF-FR 3.0kN 8 OM4B EV	8	OM4	C32	1004827	60060274
UCFIBRE I/O CT LSHF-FR 3.0kN 12 OM4B EV	12	OM4	C32	1004828	60060275
UCFIBRE I/O CT LSHF-FR 3.0kN 24 OM4B EV	24	OM4	C32	1008138	60073153

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	DOP number	SAP code
UCFIBRE I/O CT LSHF-FR 3.0kN 12 MM61 SL	12	OM1	C02	1004853	60061215
UCFIBRE I/O CT LSHF-FR 3.0kN 24 MM61 SL	24	OM1	C02	1008271	60073152

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