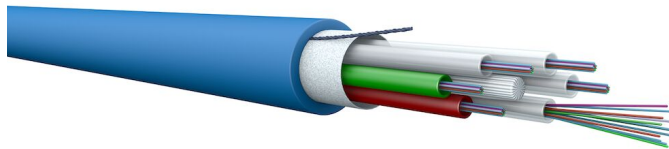


## N01a: UC<sup>FIBRE</sup> I/O ST LSHF E<sub>ca</sub> 1.8 KN

1800N, universal, ST, up to 288f, LWB, FireBur sheath



**Eca**  
CPR

### GENERAL INFO

This is a Universal indoor/outdoor cable for application as a trunk cable in LAN, MAN and WAN backbones. The cable can be installed in ducts and on cable trays. The cable may be installed directly in the ground with proper sand filling.

### CABLE FEATURES

- FO cable in stranded gel-filled loose tube design for structured cabling.
- The cable is metal-free, longitudinally water blocked, rodent-proof with a tensile strength of 1.8kN.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1-2 and Euro fire class Eca.
- Use outdoors, both in direct burial (in sand bed) and in ducts, and as a flame-retardant cable indoors.
- The fiber optic cable exceeds the requirements of EN50173-1 and ISO/IEC11801.

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

Latest version of this data sheet is available for download: [ProductFamily238855](#)

### CERTIFICATIONS AND DESIGN STANDARDS



ISO/IEC 11801  
EN 50173  
IEC 60794-1-1  
IEC 60794-1-21  
IEC 60794-1-22  
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  
Cables in construction works subject to reaction to fire  
Family specification for universal indoor-outdoor cables

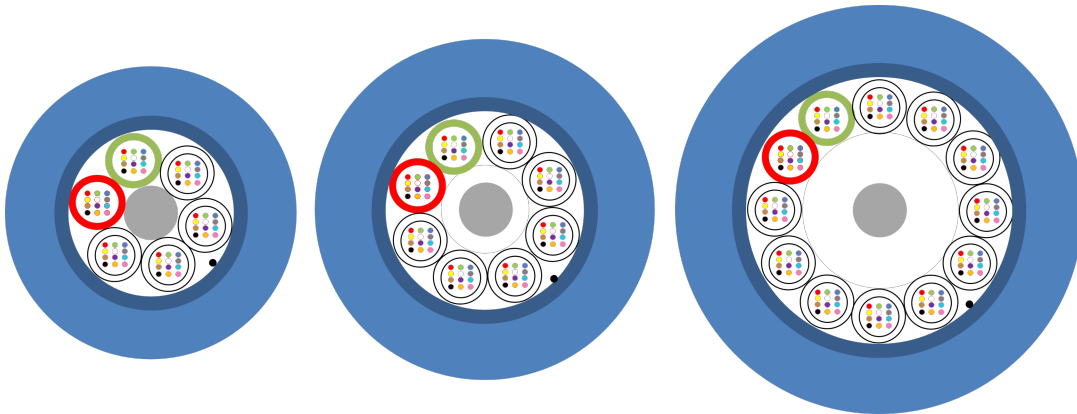
### APPLICATION PROPERTIES

Resistant to UV	UV stabilised
Outdoor installation With rodent protection	No
Operation temperature (min) [°C]*	-40 and (max) [°C] 70
Installation temperature (min) [°C]	-20 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	Stranded loose tube with 12 fibres gel-filled loose tubes of Ø2.3 mm for ≤144fo and 24 fibres gel-filled loose tubes of Ø2.8 mm for >144fo. <i>for lay-up information <a href="#">read more</a></i>
Longitudinal water blocking cable and Radial water blocking cable	Yes
Rip cord	Yes
Material outer sheath	1.5mm, Low smoke zero halogen, FireBur®
Cable shape	Round
Cable marking example	DRAKA UCFIBRE I/O ST LSHF 1.8 kN 'Fibre count' 'Fibre type' 'Fibre brand' 'Item No' 'Factory No' 'Batch Number' 'Meter mark' U-DQH 'Number of Elements' x 'Fibre count per element' 'Fibre family' 'Mode field diameter' /125 'Transmission Class'



## IDENTIFICATION

Fiber color code	<p>1 Red</p> <p>2 Green</p> <p>3 Blue</p> <p>4 Yellow</p> <p>5 White</p> <p>6 Grey</p> <p>7 Brown</p> <p>8 Violet</p> <p>9 Turquoise</p> <p>10 Black</p> <p>11 Orange</p> <p>12 Rose</p>	<p>13 Red w/mark every 70mm</p> <p>14 Green w/mark every 70mm</p> <p>15 Blue w/mark every 70mm</p> <p>16 Yellow w/mark every 70mm</p> <p>17 White w/mark every 70mm</p> <p>18 Grey w/mark every 70mm</p> <p>19 Brown w/mark every 70mm</p> <p>20 Violet w/mark every 70mm</p> <p>21 Turquoise w/mark every 70mm</p> <p>22 White w/mark every 35mm</p> <p>23 Orange w/mark every 70mm</p> <p>24 Rose w/mark every 70mm</p>
Colour outer sheath	Blue RAL 5015 (black colour optional RAL 9005)	

## MECHANICAL PROPERTIES

Crush	IEC 60794-1-21 E3	2,000 N/10cm
Max. tensile strength during installation	IEC 60794-1-21 E1	1,800 N
Permanent tensile strength	IEC 60794-1-21 E1	600 N
Impact test	IEC 60794-1-21 E4	20 N·m
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
Kink	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.

## FIRE PROPERTIES

Flame retardant	Yes
Reaction-to-fire class (acc. EN 13501-6)	Eca

## CABLE DETAILS

Number of fibres	Number of fibres per tube	Nominal outer diameter [mm]	Min. bending radius, fixed [mm]	Min. permitted bending radius, during cable laying [mm]	Cable weight [kg/km]	Fire load [MJ/km]
48	12	10.6	106	212	88	2,227
96	12	11.8	118	236	115	2,690
288	24	18	180	360	250	5,339

## ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
UCFIBRE I/O ST LSHF 1.8kN 8X12 SMDS BK	96	OS2	C45	Black	1011255	60087074
UCFIBRE I/O ST LSHF 1.8kN 48 SM7A1 BL	48	OS2	C53	Blue	1002081	60026285
UCFIBRE I/O ST LSHF 1.8kN 96 SM7A1 BL	96	OS2	C53	Blue	1002496	60019394
UCFIBRE I/O ST LSHF 1.8kN 288 SM7A1 BK	288	OS2	C53	Black	1006993	60066458
UCFIBRE I/O ST LSHF 1.8kN 4X12 OM2B BL	48	OM2	C34	Blue	1007943	60072491
UCFIBRE I/O ST LSHF 1.8kN 48 OM3B BL	48	OM3	C31	Blue	1011474	60088453

\*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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