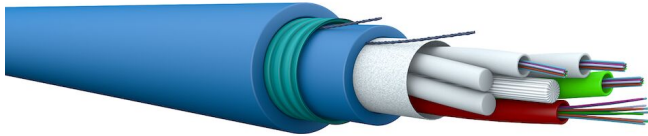


## I12: UC<sup>FIBRE</sup> I/O ST CST LSHF E<sub>ca</sub> 1.8kN

1800N, universal, ST, up to 192f, FireBur sheath, CST, FireBur sheath



**Eca**  
CPR

### GENERAL INFO

Outdoor data communication connections CATV trunk lines Telecom trunk lines Telecom access net connections For direct burial and conditions with risk of severe rodent attacks

### CABLE FEATURES

- FO cable in stranded gel-filled loose tube design for structured cabling.
- The cable is UV-resistant, with steel tape armoring, longitudinally water blocked and rodent-proof with a tensile strength of 1.8kN.
- The jacket is made of halogen-free, flame-retardant material according to IEC 60332-1-2 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, ISO/IEC11801 and EN/IEC60794-6.

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

Latest version of this data sheet is available for download: [ProductFamily238740](#)

### CERTIFICATIONS AND DESIGN STANDARDS



ISO/IEC 11801  
EN 50173  
IEC 60794-1-1  
IEC 60794-1-21  
IEC 60794-1-22  
Class Eca  
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  
Common test methods for cables under fire conditions  
Cables in construction works subject to reaction to fire  
Family specification for universal indoor-outdoor cables

### APPLICATION PROPERTIES

Resistant to UV

With rodent protection

Operation temperature (min) [°C]\*

Installation temperature (min) [°C]\*

Outdoor installation

Bending radius (rule)

Yes

-40 (max) [°C] 60

-30 (max) [°C] 60

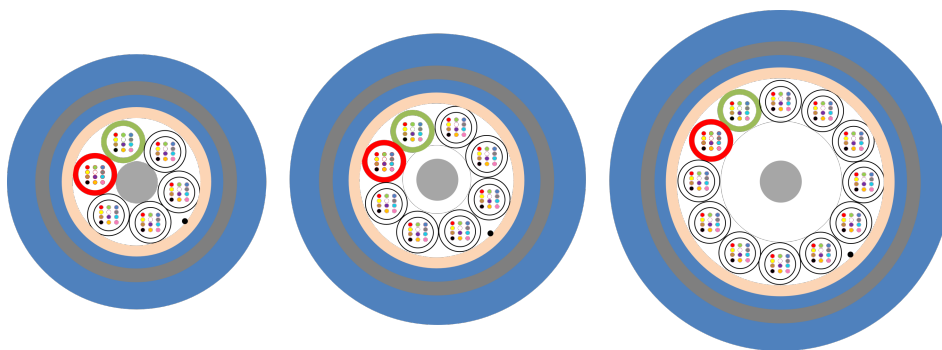
Yes

During installation (loaded) = 20xOD, Permanent  
(unloaded) = 10xOD

\* Temperature range recommended for cable installation and operation tested according to the IEC 60794-1-22 F1. In the interval -40°C to 70°C there is no attenuation variation (≤0.05 dB) for a single mode fibre, when tested according to the standard mentioned.

## 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.
Longitudinal water blocking cable and Radial water blocking cable	Yes
Rip cord	Yes
Material inner sheath	Low smoke zero halogen
Rip cord	Yes
Armouring/reinforcement	Steel, galvanised, Armouring tape
Material outer sheath	1.5mm, Low smoke zero halogen, FireBur®
Cable shape	Round
Cable marking example	Draka UC FIBRE I/O ST CST LSHF 1.8 kN 'Fibre count' 'Fibre type' 'Item No' 'Factory code' 'Batch Number' 'Meter mark' U-DQH(SR)H 'Number of Elements' x 'Fibre count per elements' 'Fibre family' 'Mode field diameter' /125 'Transmission Class'



## IDENTIFICATION

Fibre colour code	1 Red	13 Red w/mark every 70mm
<i>in accordance with IEC 60794-2 and VDE 0888 <a href="#">read more</a></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
Colour outer sheath	Black, RAL 9005	

## MECHANICAL PROPERTIES

Crush	IEC 60794-1-21 E3	3,000 N/10cm
Max. tensile strength during installation	IEC 60794-1-21 E1	1,800 N
Permanent tensile strength	IEC 60794-1-21 E1	1,200 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 DESIGN DETAILS

Number of fibres	Number of fibres per tube	Nominal outer diameter [mm]	Fire load [MJ/km]	Cable weight [kg/km]
12	12	14.4	3,695	205
48	12	14.4	3,650	208
96	12	14.4	3,485	210
144	12	19	5,970	332
192	24	19	6,035	324

## ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DoP number	SAP code
UCFIBRE I/O ST CST LSHF 144 SM7A1 BK	144	OS2	C24	Black	1011591	60089049
UCFIBRE I/O ST CST LSHF 12 SM7A1 BK	12	OS2	C53	Black	1006190	60020077
UCFIBRE I/O ST CST LSHF 48 SM7A1 BK	48	OS2	C53	Black	1008940	60029965
UCFIBRE I/O ST CST LSHF 96 SM7A1 BK	96	OS2	C53	Black	1007764	60071891
UCFIBRE I/O ST CST LSHF 192 SM7A1 BK	192	OS2	C53	Black	1009464	60079034
UCFIBRE I/O ST CST LSHF 12 MM61 BK	12	OM1	C02	Black	1007812	60052978

\*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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