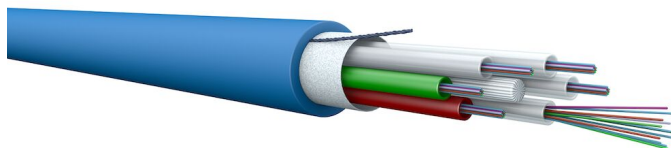


N01a: UC^{FIBRE} I/O ST LSHF E_{ca} 1.8 KN

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 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; IEC60754-1; IEC60754-2; IEC61034 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

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

Outdoor installation With rodent protection

Operation temperature (min) [°C]*

Installation temperature (min) [°C]

Storage temperature (min) [°C]

Bending radius (rule)

UV stabilised

Yes

-40 and (max) [°C] 70

-20 and (max) [°C] 60

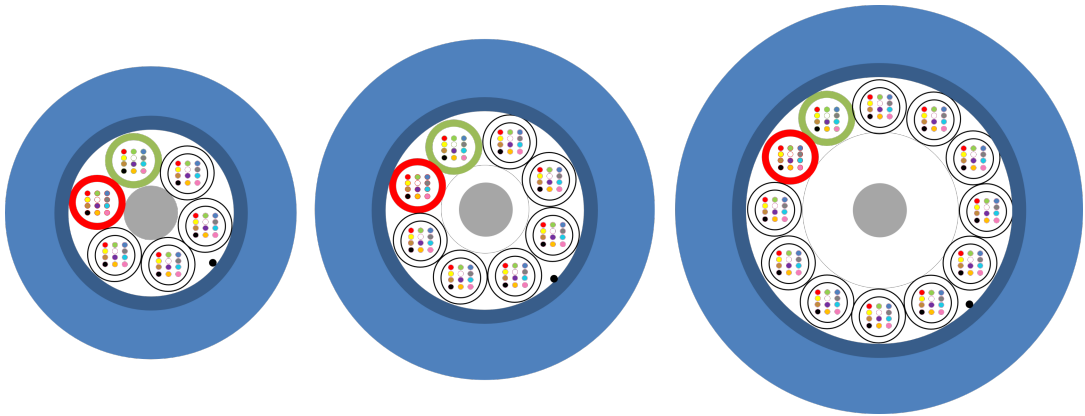
-30 and (max) [°C] 60

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.
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	1 Red 2 Green 3 Blue 4 Yellow 5 White 6 Grey 7 Brown 8 Violet 9 Turquoise 10 Black 11 Orange 12 Rose 13 Red w/mark every 70mm 14 Green w/mark every 70mm 15 Blue w/mark every 70mm 16 Yellow w/mark every 70mm 17 White w/mark every 70mm 18 Grey w/mark every 70mm 19 Brown w/mark every 70mm 20 Violet w/mark every 70mm 21 Turquoise w/mark every 70mm 22 White w/mark every 35mm 23 Orange w/mark every 70mm 24 Rose w/mark every 70mm
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

Halogen free

Low smoke

Reaction-to-fire class (acc. EN 13501-6)

In accordance with EN/IEC 60332-1-2

acc. IEC/EN 60754-1/2

acc. IEC/EN 61034-2

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](#)

© PRYSMIAN GROUP 2022, all rights reserved. All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorized by Prysmian Group.