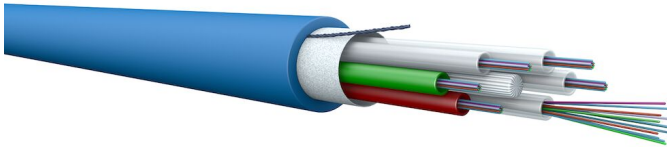# draka
A Prysmian Brand

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 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

Eca
CPR

3P
THIRD PARTY TESTING

ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology - Generic cabling systems
EN 50575	Cables in construction works subject to reaction to fire
IEC 60794-1-1	Generic Specification Fibre Optic Cables
IEC 60794-6-10	Family specification for universal indoor-outdoor cables

APPLICATION PROPERTIES

Resistant to UV	UV stabilised
Outdoor installation With rodent protection	Not applicable
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

CABLE CONSTRUCTION

Type of tube	Stranded construction with Ø2.3 mm gel-filled loose tubes with 12 fibres each for up 144fo and Ø2.8 mm gel-filled loose tubes with 24 fibres each for over 144fo cables.
Longitudinal 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'
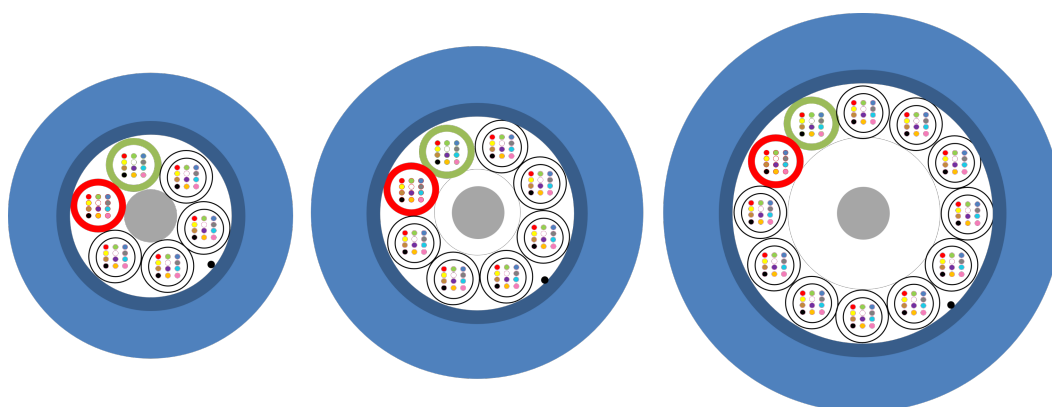
IDENTIFICATION

Fiber color code

1 Red	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 Violett	20 Violett w/mark every 70mm
9 Turquoise	21 Turquoisew/mark every 70mm
10 Black	22 White w/mark every 35mm
11 Orange	23 Orange w/mark every 70mm
12 Rose	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	acc. IEC/EN 60332-1-2
Halogen free	acc. IEC/EN 60754-2
The reaction to fire according to the EN 50575	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

*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