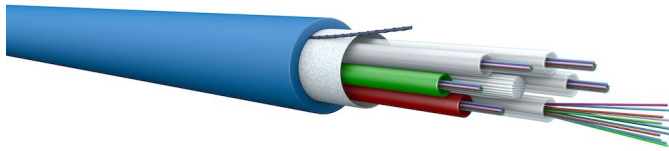


N01a: DR I/O ST LSHF E_{ca} 1.8 KN

1800N, universal, ST, 48f, 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.

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

CERTIFICATIONS AND DESIGN STANDARDS



ISO/IEC 11801
EN 50173
EN 50575
IEC 60794-1-1
IEC 60794-6-10

Generic telecom cabling for customer premises
Information technology - Generic cabling systems
Cables in construction works subject to reaction to fire
Generic Specification Fibre Optic Cables
Family specification for universal indoor-outdoor cables

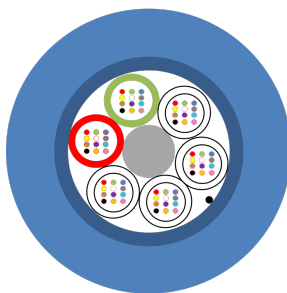
APPLICATION PROPERTIES

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
Not applicable
-40 and (max) [°C] 70
-20 and (max) [°C] 60
-30 and (max) [°C] 60
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
Longitudinal water blocking cable	Yes
Rip cord	Yes
Material outer sheath	1.5mm, Low smoke zero halogen, FireBur®
Cable shape	Round
Cable marking example	PRYSMIAN DR 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	7 Brown
	2 Green	8 Violet
	3 Blue	9 Turquoise
	4 Yellow	10 Black
	5 White	11 Orange
	6 Grey	12 Rose
Tube color code	1x Green	
	2x Yellow	
	1x Red	
Colour outer sheath	Black 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

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
DR I/O ST LSHF 1.8kN 48 SM7A1 BK	48	OS2	C53	Black	1002542	60049567

**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](#)*