

D10F: UC^{FIBRE} | FL LSHF-FR D_{ca} ES9 2.0

Assembly, Fig.O, 2 units of 2.0 mm, aramid yarn, FireRes sheath



GENERAL INFO

Interconnect cabling This cable features Draka's ES9 easy strippable tight buffer Patch cord cable, very well suited for mounting small form factor connectors Internal wiring

CABLE FEATURES

- Fiber optic cable as fig.-0 duplex assembly cable for structured cabling.
- The cable is metal-free with a tensile strength of 240N.
- The jacket is made of halogen-free, flame-retardant material according to IEC 60332-1-2; EN 50399 and Euro fire class Dca s2d2a1.
- For use as a flame-retardant cable indoors.
- The fiber optic cable exceeds the requirements of EN50173-1, ISO/IEC11801 and EN/IEC60794-2.

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

Latest version of this data sheet is available for download: [ProductFamily238937](#)

CERTIFICATIONS AND DESIGN STANDARDS

ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology - Generic cabling systems
IEC 60794-1-1	Generic Specification Fibre Optic Cables
IEC 60794-1-21	Mechanical Test Methods
IEC 60794-1-22	Environmental Test Procedures
EN 50575	Cables in construction works subject to reaction to fire

APPLICATION PROPERTIES

Resistant to UV	
Operation temperature (min) [°C]*	-30 and (max) [°C] 60
Installation temperature (min) [°C]	-10 and (max) [°C] 60
Storage temperature (min) [°C]	-10 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	Unit made of easily strippable tightly buffered ES9 fibres 900µm ± 50µm with aramid yarns and a LSZH sheath
Material outer sheath	Low smoke zero halogen, FireRes®
Cable shape	Flat
Cable marking example	Draka UC ^{FIBRE} FL LSHF-FR Dca-s2-d2-a1 ES9 2.0 2 'Fibre type' 'Fibre brand' 'Item No' 'factory code' 'Batch Number' 'Meter mark' J-V(ZN)HH 2 'Fibre family' 'Mode field diameter' /125 'Transmission Class'

IDENTIFICATION

Tight buffer colour code for Simplex	White
Tight buffer colour code for Duplex	White and Blue
<i>* Fibre is white or uncoloured.</i>	
Sheath color	Cable with SM fibres: BendBrightXSG.657.A2, BendBright G.657.A1 Yellow, RAL 1018 Cable with mixed fibre types (hybrid) Blue, RAL 5015 Cable with OM1 Grey, RAL 7037 Cable with MaxCap-BendBright-OM2 Orange, RAL 2009 Cable with MaxCap-BendBright-OM3 Aqua, RAL 6027 Cable with MaxCap-BendBright-OM4 Erika-Violet, RAL 4003 Cable with BendBright WideCap-OM5 Lime-Green, RAL 6039

MECHANICAL PROPERTIES

Outer diameter		3 x 5 mm
Cable weight		18 kg/km
Fire load		352 MJ/km
Crush test	IEC 60794-1-21 E3	4,000 N/10cm
Torsion test *	IEC 60794-1-21 E7	5 cycles ±1turn
Impact test	IEC 60794-1-21 E4	2 N·m
Max. tensile strength during installation	IEC 60794-1-21 E1	240 N
Permanent tensile strength		120 N
Kink test	IEC 60794-1-21 E10	The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter.

* Standard torsion test uses 39N weight for real installation approach.

FIRE PROPERTIES

Flame retardant	Yes
Reaction-to-fire class (acc. EN 13501-6)	Dca
Smoke development class (acc. EN 13501-6)	s2
Euro class flaming droplets/particles (acc. EN 13501-6)	d2
Euro class acidity (acc. EN 13501-6)	a1

ORDERING DETAILS

Product name	Colour outer sheath	Number of fibres	Category (fibre)	Fibre datasheet	DOP number	SAP code
UCFIBRE I FL N DA LSHF-FR ES9 2.0 2 SM2D	Yellow	2	OS2	C24	1007221	60019328
UCFIBRE I FL LSHF-FR ES9 2.0 2 SM7B YL	Yellow	2	OS2	C24	1007230	60019446
UCFIBRE I FL LSHF-FR ES9 2.0 2 OM2B OR	Orange	2	OM2	C34	1007117	60011963
UCFIBRE I FL LSHF-FR ES9 2.0 2 OM3B AQ	Turquoise	2	OM3	C31	1006667	60019445
UCFIBRE I FL LSHF-FR ES9 2.0 2 OM4B RAL	Erika-violet	2	OM4	C32	1007133	60066957
UCFIBRE I FL LSHF-FR ES9 2.0 2 OM5B LI	Lime green	2	OM5	C39	1012611	60093044
UCFIBRE I FL LSHF-FR ES9 2.0 2 MM61 SL	Grey	2	OM1	C02	1007116	60011358

*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.