Draka
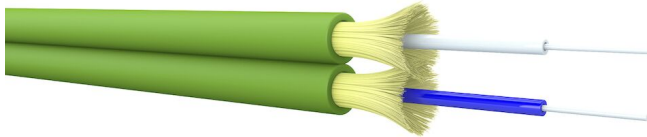## A Brand of Prysmian Group

D10e: UC^{FIBRE} I T LSHF-FR B2$_{ca}$ ES9 2.0
Assembly, Fig.8 zipcord, 2 units of 2.0mm, aramid yarn, FireRes sheath

B2$_{ca}$ CPR

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. 8 Connection duplex version 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 IEC60332-1 for use in public buildings with high personal risk and higher Euro fire class B2ca s1a d1 a1.
- 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: ProductFamily238928

CERTIFICATIONS AND DESIGN STANDARDS

B2$_{ca}$ CPR

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
IEC 61034-2	Smoke Density
IEC 60754-2	Weighted Values of pH and Conductivity

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	2 ES9 easily strippable tightly buffered fibres 900µm ± 50µm
Material outer sheath	Low smoke zero halogen, FireRes®
Cable shape	Flat
Cable marking example	Draka UCFIBRE I T LSHF-FR B2ca-s1a-d1-a1 ES9 2.0 2'Fibre type' 'Fibre brand' 'Item No' 'factory code' 'Batch Number' 'Meter mark' J-V(ZN)H 2 'Fibre family' 'Mode field diameter' /125 'Transmission Class'

![Draka – A Brand of Prysmian Group]

IDENTIFICATION

Tight buffer colour code for Simplex	White
Tight buffer colour code for Duplex	White and Blue

* Fibre is white or uncoloured.

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		2 x 4.2 mm
Cable weight		8 kg/km
Fire load		108 MJ/km
Crush test	IEC 60794-1-21 E3	500 N/10cm
Torsion test *	IEC 60794-1-21 E7	5 cycles ±1turn
Impact test	IEC 60794-1-21 E4	1 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)	B2ca
Smoke development class (acc. EN 13501-6)	s1a
Euro class flaming droplets/particles (acc. EN 13501-6)	d1
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 T LSHFFR B2 ES9 2.0 2 SM7B.P Y	Yellow	2	OS2	C25	1012097	60082303
UCFIBRE I T LSHF-FR B2 ES9 2.0 2 SM7A1.P	Yellow	2	OS2	C38	1012820	60082298
UCFIBRE I T LSHF-FR B2 ES9 2.0 2 OM2B OR	Orange	2	OM2	C34	1012819	60082271
UCFIBRE I T LSHF-FR B2 ES9 2.0 2 OM3B AQ	Turquoise	2	OM3	C31	1012817	60081966
UCFIBRE I T LSHF-FR B2 ES9 2.0 2 OM4B 40	Erika-violet	2	OM4	C32	1012515	60082799

*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](DoP)