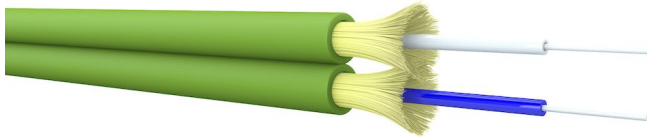


## D01c: UC<sup>FIBRE</sup> | T LSHF-FR C<sub>ca</sub> ES9 2.8 2

Assembly, Fig.8, 2 units of 2.8 mm, aramid yarn, FireRes sheath



### GENERAL INFO

Assembly ,Fig.8, CPR-Cca cable with 2 units of 2.8 mm with ES9 buffered fibres, aramid yarns, FireRes® sheath. VDE: J-V(ZN)H 2

### CABLE FEATURES

- Fiber optic cable as fig. 8 Connection duplex version for structured cabling.
- The cable is metal-free with a tensile strength of 600N.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1; EN50399 for use in public buildings with a high personal risk according to Euro fire class Cca 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: [ProductFamily238818](#)

### CERTIFICATIONS AND DESIGN STANDARDS



ISO/IEC 11801  
EN 50173  
IEC 60794-1-1  
IEC 60794-1-21  
IEC 60794-1-22  
EN 50575  
IEC 61034-2  
IEC 60754-2

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  
Smoke Density  
Weighted Values of pH and Conductivity

### APPLICATION PROPERTIES

Resistant to UV	UV stabilised
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 UC <sup>FIBRE</sup>   T LSHF-FR Cca-s1a-d1-a1 ES9 2.8 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' G 'fibre count'

### 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		2.8 x 5.7 mm
Cable weight		15.8 kg/km
Fire load		291 MJ/km
Crush test	IEC 60794-1-21 E3	3,000 N/10cm
Torsion test *	IEC 60794-1-21 E7	5 cycles ±1turn
Impact test	IEC 60794-1-21 E4	5 N·m
Max. tensile strength during installation	IEC 60794-1-21 E1	600 N
Permanent tensile strength		300 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)	Cca
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 LSHF-FR ES9 2.8 2 SM7B YL	Yellow	2	OS2	C24	1012674	60019441
UCFIBRE I T LSHF-FR ES9 2.8 2 SM7A1.P YL	Yellow	2	OS2	C38	1012600	60019271
UCFIBRE I T LSHF-FR ES9 2.8 2 OM2B OR	Orange	2	OM2	C34	1012673	60019439
UCFIBRE I T LSHF-FR ES9 2.8 2 OM3B AQ	Turquoise	2	OM3	C31	1012601	60019440
UCFIBRE I T LSHF-FR ES9 2.8 2 MM61 SL	Grey	2	OM1	C02	1012672	60019396

\*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](#)

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