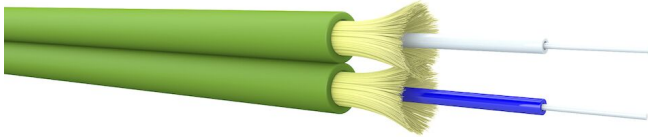


D01c: UC^{FIBRE} | T LSHF-FR C_{ca} ES9 2.8 2

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

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

IEC 60794-2-10

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

Indoor optical fibre cables - Family specification for simplex and duplex cables

APPLICATION PROPERTIES

Resistant to UV

Operation temperature (min) [°C]*

Installation temperature (min) [°C]

Storage temperature (min) [°C]

Bending radius (rule)

UV stabilised

-30 and (max) [°C] 60

-10 and (max) [°C] 60

-10 and (max) [°C] 60

During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD

CABLE CONSTRUCTION

Type of tube

Material outer sheath

Cable shape

Cable marking example

2 ES9 easily strippable tightly buffered fibres 900µm ± 50µm

Low smoke zero halogen, FireRes®

Flat

PRYSMIAN UC^{FIBRE} | 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>	
Tube unit and sheath colour code	Cable with SM fibres: BendBrightXS G.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 according to IEC 60332-1-2	Yes
Reaction-to-fire class (acc. EN 13501-6)	Cca
Smoke development class (acc. EN 13501-6)	sl _a
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 LSHFFR C ES9 2.8 2 OM4B EV	Erika-violet	2	OM4	C32	1012846	60084803
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](#)