

D43: UC^{FIBRE} | FL LSHF-FR C_{ca} ES9 2.8

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



GENERAL INFO

Interconnect cabling with 2 separate 2.8 mm units. This cable features Draka's ES9 easy strippable tight buffer. Patch cord cable with simplex units, very well suited for mounting small form factor connectors and break-out applications. Internal, robust wiring. High flame retardance performance with CPR Class-Cca approval.

CABLE FEATURES

- Fiber optic cable as fig.-0 duplex assembly cable for structured cabling.
- The cable is metal-free with a tensile strength of 400N.
- 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: [ProductFamily239185](#)

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
IEC 61034-2	Smoke Density
IEC 60754-2	Weighted Values of pH and Conductivity
IEC 60332-3-24	Bundled fire test

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	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	P 1

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		3.8 x 6.6 mm
Cable weight		29.6 kg/km
Fire load		547 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		200 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	In accordance with EN/IEC 60332-3-24
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 FL LSHF-FR C ES9 2.8 2 SM7A1.P	Yellow	2	OS2	C38	1012632	60081141
UCFIBRE I FL LSHF-FR C ES9 2.8 2 OM3B AQ	Aqua	2	OM3	C31	1012631	60081139
UCFIBRE I FL LSHF-FR C ES9 2.8 2 OM4B EV	Erika-violet	2	OM4	C32	1012630	60081137

*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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