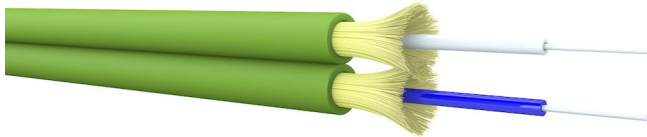


D01d: UC^{FIBRE} | T LSHF-FR D_{ca} ES9 3.0 2

Assembly, Fig.8, 2 units of 3.0 mm, aramid yarn, FireRes sheath



GENERAL INFO

3.0mm x 2 duplex cable with ES9 buffer, aramid yarns and FireRes® sheath: DIN/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 IEC 60332-1-2 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/IEC 11801 and EN/IEC 60794-2.

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

Latest version of this data sheet is available for download: [ProductFamily238824](#)

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	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 ^{FIBRE} T N LSHF-FR ES9 3.0 2 'Fibre type' 'Fibre brand' 'Item No' 05 'Batch Number' 'Meter mark' J-V(ZN)H 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		2.9 x 5.8 mm
Cable weight		15 kg/km
Fire load		270 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	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)	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 T LSHF-FR ES9 3.0 2 OM3B AQ	Turquoise	2	OM3	C31		60058290
UCFIBRE I T LSHF-FR ES9 3.0 2 MM61 SL	Grey	2	OM1	C02		60020038

*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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