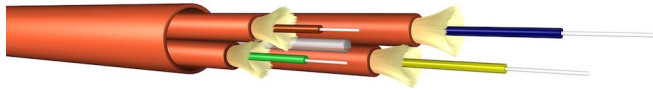


D24: UC^{FIBRE} I B LSHF-FR D_{ca} ES9 2.1

Indoor, break-out cable with 2.1 mm units, 4 fibres, FireRes sheath



GENERAL INFO

Interconnect cabling for LAN, horizontal cabling, patch cord cable, short distances data-, control- and video transmission. Used for internal wiring in data centres. DIN/VDE: I-V(ZN)HH 4

Latest version of this data sheet is available for download: [ProductFamily239065](#)

CERTIFICATIONS AND DESIGN STANDARDS

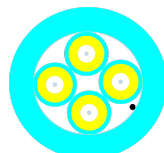
ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology - Generic cabling systems
IEC 60794-1-1	Generic Specification Fibre Optic Cables
IEC 60794-1-21	Mechanical Test Methods
IEC 60794-1-22	Environmental Test Procedures
EN 50575	Cables in construction works subject to reaction to fire

APPLICATION PROPERTIES

Resistant to UV	
Operation temperature (min) [°C]*	-10 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

CABLE CONSTRUCTION

Buffer type	ES9 tightly buffered fibre, aramid yarns under a LSZH sheath
Type of tube	Breakout, 2.1mm, Low smoke zero halogen
Rip cord	No
Material outer sheath	Low smoke zero halogen
Cable shape	Round
Cable marking example	PRYSMIAN UC ^{FIBRE} I B LSHF-FR Dca s2d2a1 ES9 2.1 4 'Fibre type' 'Fibre brand' 'Item No' 'factory code' 'Batch Number' 'Meter mark' J-V(ZN)HH 4 'Fibre family' 'Mode field diameter' /125 'Transmission Class'



IDENTIFICATION

Fibre* buffers colour code	1 Red	13 Red w/mark every 70mm
<i>in accordance with IEC 60794-3 and VDE 0888 read more</i>	2 Green	14 Green w/mark every 70mm
<i>* White or uncoloured fibres used</i>	3 Blue	15 Blue w/mark every 70mm
	4 Yellow	16 Yellow w/mark every 70mm
	5 White	17 White w/mark every 70mm
	6 Grey	18 Grey w/mark every 70mm
	7 Brown	19 Brown w/mark every 70mm
	8 Violet	20 Violet w/mark every 70mm
	9 Turquoise	21 Turquoise w/mark every 70mm
	10 Black	22 White w/mark every 35mm
	11 Orange	23 Orange w/mark every 70mm
	12 Pink	24 Pink w/mark every 70mm

LSZH units, in the same colour as the outer sheath, marked with unit number.

Sheath color	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
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MECHANICAL PROPERTIES

Crush test	IEC 60794-1-21 E3	3,000 N/10cm
Impact test	IEC 60794-1-21 E4	10 N·m
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
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.

FIRE PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-1-2
Halogen free	In accordance with EN/IEC 60754-2
The reaction to fire according to the EN 50575	Dca - s2, d2, a1

CABLE DETAILS

Number of fibres	Number of fibres per tube	Nominal outer diameter [mm]	Min. bending radius, fixed [mm]	Min. permitted bending radius, during cable laying [mm]	Permanent tensile strength [N]	Max. tensile strength during installation [kN]	Cable weight [kg/km]	Fire load [MJ/km]
4	4	6.2	100	150	425		34	624

ORDERING DETAILS

Product name	Colour outer sheath	Number of fibres	Category (fibre)	Fibre datasheet	DOP number	SAP code
UCFIBRE I B LSHF-FR ES9 2.1 4 SM7B YL	Yellow	4	OS2	C24	1004765	60019451
UCFIBRE I B LSHF-FR ES9 2.1 4 OM2B OR	Orange	4	OM2	C34	1004766	60019470
UCFIBRE I B LSHF-FR ES9 2.1 4 OM3B AQ	Turquoise	4	OM3	C31	1003961	60019582

**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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