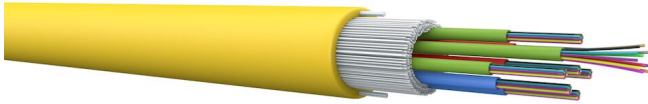


M11: UC^{FUTURE} | FS LSHF-FR B2

M11: UCFUTURE Dry Tube Data Centre Cable



B2_{ca}
CPR

GENERAL INFO

Compact multi-fibre cable for office distribution and data center networks features 12 fibre Flextubes® and up to 144 fibres making it ideal for both office distribution and parallel optical networks in data centers. It is halogen-free and offers exceptional flame retardant performance. The cable fits to 12-way multi fibre connectors according to IEC 61754-1-1, such as the MPO® and MTP® connectors, with proper fan-out.

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

Latest version of this data sheet is available for download: [ProductFamily377263](#)

CERTIFICATIONS AND DESIGN STANDARDS



B2_{ca}
CPR

ISO/IEC 11801

EN 50173

EN 50575

IEC 60794-1-1

IEC 60794-2-20

TIA/EIA 598-C

Generic telecom cabling for customer premises
Information technology - Generic cabling systems
Cables in construction works subject to reaction to fire
Generic Specification Fibre Optic Cables
Indoor Cables Multi-fibre optical cables
Fiber colour coding

APPLICATION PROPERTIES

Resistant to UV

Outdoor installation With rodent protection

Operation temperature (min) [°C]*

Installation temperature (min) [°C]

Storage temperature (min) [°C]

Bending radius (rule)

UV stabilised

Not applicable

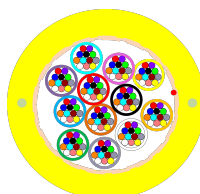
0 and (max) [°C] 50

0 and (max) [°C] 50

-10 and (max) [°C] 60

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

*Temperature range recommended for cable installation, operation and storage tested according to the IEC 60794-1-22 Fl.



CABLE CONSTRUCTION

Type of tube	Flextube® units with 12 fibres each.
Longitudinal water blocking cable	No
Material outer sheath	Halogenfree polymer, with 2 FRP strength elements embedded
Cable shape	Round
Cable marking example	DRAKA UCFUTURE FO I FS M11 LSHF-FR B2ca-s1a-d1-a1 "fibre count" "fibre type" "fibre brand" "product code" "factory code" "batch no." "meter" M

IDENTIFICATION

Fibre colour code <i>in accordance with TIA/EIA 598-C read more</i>	1 Blue	13 Blue w/mark every 70mm
	2 Orange	14 Orange w/mark every 70mm
	3 Green	15 Green w/mark every 70mm
	4 Brown	16 Brown w/mark every 70mm
	5 Grey	17 Grey w/mark every 70mm
	6 White	18 White w/mark every 70mm
	7 Red	19 Red w/mark every 70mm
	8 Black	20 White w/mark every 35mm
	9 Yellow	21 Yellow w/mark every 70mm
	10 Violet	22 Violet w/mark every 70mm
	11 Pink	23 Pink w/mark every 70mm
	12 Turquoise	24 Turquoise w/mark every 70mm
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	

MECHANICAL PROPERTIES

Crush	IEC 60794-1-21 E3	1,000 N/10cm
Max. tensile strength during installation	IEC 60794-1-21 E1	1,000 N
Permanent tensile strength	IEC 60794-1-21 E1	300 N
Impact test	IEC 60794-1-21 E4	5 N·m
Torsion test	IEC 60794-1-21 E7	pass
Kink	IEC 60794-1-21 E10	The cables do not form a kink when a loop is drawn together to a diameter 20 times the cable nominal diameter.

FIRE PROPERTIES

Flame retardant	acc. IEC/EN 60332-3-24
Halogen free	acc. IEC/EN 60754-2
Low smoke	acc. IEC/EN 61034-2
The reaction to fire according to the EN 50575	B2ca - s1a, d1, 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]	Cable weight [kg/km]	Fire load [MJ/km]
24	12	7.8	78	156	68	786
36	12	8.3	83	166	73	857
48	12	8.7	98	196	79	920
72	12	9.1	91	182	85	1,021
96	12	9.8	87	174	97	1,142
144	12	10.8	106	212	110	1,343

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
UCFUTURE I FS LSHF-FR B2 24 SM7A2 YL	24	OS2	C24	Yellow	-	M11-24SM7A2
UCFUTURE I FS LSHF-FR B2 36 SM7A2 YL	36	OS2	C24	Yellow	-	M11-36SM7A2
UCFUTURE I FS LSHF-FR B2 48 SM7A2 YL	48	OS2	C24	Yellow	-	M11-48SM7A2
UCFUTURE I FS LSHF-FR B2 72 SM7A2 YL	72	OS2	C24	Yellow	-	M11-72SM7A2
UCFUTURE I FS LSHF-FR B2 96 SM7A2 YL	96	OS2	C24	Yellow	-	M11-96SM7A2
UCFUTURE I FS LSHF-FR B2 144 SM7A2 YL	144	OS2	C24	Yellow	-	M11-144SM7A2
UCFUTURE I FS LSHF-FR B2 24 OM4B EV	24	OM4	C32	Erika-violet	-	M11-24OM4B
UCFUTURE I FS LSHF-FR B2 48 OM4B EV	48	OM4	C32	Erika-violet	-	M11-48OM4B
UCFUTURE I FS LSHF-FR B2 96 OM4B EV	96	OM4	C32	Erika-violet	-	M11-96OM4B
UCFUTURE I FS LSHF-FR B2 144 OM4B EV	144	OM4	C32	Erika-violet	-	M11-144OM4B
UCFUTURE I FS LSHF-FR B2 24 OM5B LI	24	OM5	C39	Lime green	-	M11-24OM5B
UCFUTURE I FS LSHF-FR B2 36 OM5B LI	36	OM5	C39	Lime green	-	M11-36OM5B
UCFUTURE I FS LSHF-FR B2 48 OM5B LI	48	OM5	C39	Lime green	-	M11-48OM5B
UCFUTURE I FS LSHF-FR B2 96 OM5B LI	96	OM5	C39	Lime green	-	M11-96OM5B
UCFUTURE I FS LSHF-FR B2 144 OM5B LI	144	OM5	C39	Lime green	-	M11-144OM5B

*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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