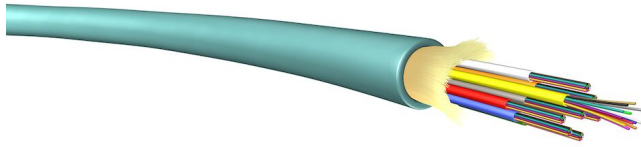


## M05: UC<sup>FUTURE</sup> | FS LSHF-FR

### M05: UCFUTURE Dry Tube Data Centre Cable



**Dca**  
**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 flame retardant. 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: [ProductFamily238875](#)

## CERTIFICATIONS AND DESIGN STANDARDS

**ISO/IEC 11801**

**EN 50173**

**IEC 60794-1-1**

**IEC 60794-2-20**

**TIA/EIA 598-C**

**EN 50575**

Generic telecom cabling for customer premises

Information technology - Generic cabling systems

Generic Specification Fibre Optic Cables

Indoor Cables Multi-fibre optical cables

Fiber colour coding

Cables in construction works subject to reaction to fire

## 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

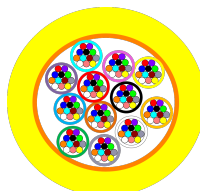
Not applicable

-10 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	Flextube® units with 12 fibres each.
Longitudinal water blocking cable	No
Material outer sheath	Halogenfree polymer,
Cable shape	Round
Cable marking example	DRAKA UCFUTURE FO I FS M05 LSHF-FR Dca-s2-d2-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 <a href="#">read more</a></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

Flextubes units in accordance with TIA/EIA 598-C colour code.

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	IEC 60794-1-21 E3	2,000 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	15 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 60332-1-2
Halogen free	acc. IEC/EN 60754-2
Low smoke	Yes
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]	Cable weight [kg/km]	Fire load [MJ/km]
24	12	6.1	61	122	36	481
48	12	6.5	65	130	39	519
96	12	8.5	85	170	61.2	793
144	12	9	90	180	70.4	908

## ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
UCFUTURE I FS LSHF-FR 24 SM7A1 YL	24	OS2	C38	Yellow	1006298	60059249
UCFUTURE I FS LSHF-FR 48 SM7A1 YL	48	OS2	C38	Yellow	1006624	60059250
UCFUTURE I FS LSHF-FR 96 SM7A1 YL	96	OS2	C38	Yellow	1006741	60066021
UCFUTURE I FS LSHF-FR 144 SM7A1 YL	144	OS2	C38	Yellow	1007507	60064329
UCFUTURE I FS LSHF-FR 24 OM3B AQ	24	OM3	C31	Turquoise	1011193	60059251
UCFUTURE I FS LSHF-FR 48 OM3B AQ	48	OM3	C31	Turquoise	1007580	60059252
UCFUTURE I FS LSHF-FR 96 OM3B AQ	96	OM3	C31	Turquoise	1011330	60086681
UCFUTURE I FS LSHF-FR 48 OM4B 4003	48	OM4	C32	Erika-violet	1013130	60093854

\*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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