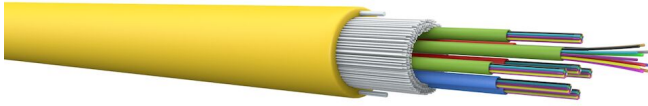


M17: UC^{FUTURE} | FX LSHF-FR

UC FUTURE Flex Ribbon® Dry Tube Data Centre Cable



FLEXRIBBON™

GENERAL INFO

M17 boasts a compact multi-fibre design with up to 288 fibres in a single cable. Designed with FlexTubes™ and FlexRibbon™ technologies, provides a flexible solution for routing and installation, as well as an increased fibre density in the cable. The 12-fibre FlexRibbon® design allows for mass-fusion splicing, further simplifying the installation process. Fits to 12 way multi fibre connectors according to IEC 61754-1-1 such as the MPO® and MTP® connectors with proper fan-out. The intended application for this cable is as distribution cable inside data centres parallel optical networks as well as in central offices.

Latest version of this data sheet is available for download: [ProductFamily415870](#)

CERTIFICATIONS AND DESIGN STANDARDS



ISO/IEC 11801
EN 50173
IEC 60794-1-1
IEC 60794-2-20
TIA/EIA 598-C
EN 50575

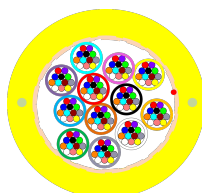
Generic telecom cabling for customer premises
 Information technology - Generic cabling systems
 Generic Specification Fibre Optic Cables
 Indoor Cables Multi-fibre optical cables
 Fiber colour coding
 Cables in construction works subject to reaction to fire

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
 No
 0 and (max) [°C] 50
 0 and (max) [°C] 50
 -10 and (max) [°C] 60
 During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD

* The FlexRibbon® will operate in the temperature interval -0°C to 50°C with a maximum attenuation variation of 0.3dB/km @1550nm.



CABLE CONSTRUCTION

Type of tube	Flextube® units with one FlexRibbon® each up to 288fo.
Longitudinal water blocking cable	No
Material outer sheath	Halogenfree polymer, FireRes® with 2 FRP strength elements embedded
Cable shape	Round
Cable marking example	PRYSMIAN UCFUTURE FO 1 FX M17 LSHF-FR B2ca-s1b-d1-a1 'fibre count' 'ibre type' 'fibre brand' 'product code' 'factory code' 'batch no.' 'meter' M

IDENTIFICATION

Fibre colour code *	1 Blue	7 Red
<i>in accordance with TIA/EIA 598-C read more</i>	2 Orange	8 Black
	3 Green	9 Yellow
	4 Brown	10 Violet
	5 Grey	11 Pink
	6 White	12 Turquoise
Sub-units colour code	Cable with FlexRibbon® BendBrightXS G.657.A2 SM fibres, Yellow RAL 1018	
<i>each sub-unit is marked with a number from 1 up to 24 every 70mm</i>		
Sheath color	Cable with FlexRibbon® BendBrightXS G.657.A2 SM fibres, Yellow RAL 1018	

MECHANICAL PROPERTIES

Crush	IEC 60794-1-21 E3	1,500 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	In accordance with EN/IEC 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	From 24fo to 96fo is Cca - s1b, d1, a1
	From 144fo to 288fo is B2ca - s1b, 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	8.1	81	162	71	819
144	12	12	120	240	135	1,511
288	12	13.6	140	280	165	2,570

ORDERING DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
UCFUTURE I FX LSHF-FR C 24 SM7A2 YL	24	OS2	C24	Yellow	-	M17-24SM7A2
UCFUTURE I FX LSHF-FR C 144 SM7A2 YL	144	OS2	C24	Yellow	-	M17-144SM7A2
UCFUTURE I FX LSHF-FR C 288 SM7A2 YL	288	OS2	C24	Yellow	-	M17-288SM7A2

* The maximum attenuation value of the FlexRibbon® cable @1310nm is 0.4dB/km and @1550nm 0.3dB/km.

* 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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