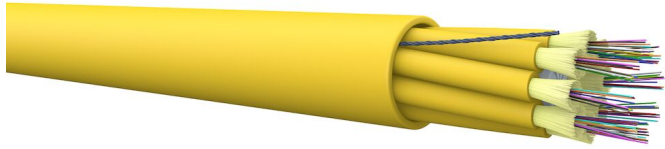


# M06: UC<sup>FUTURE</sup> FO I B3S LSHF-FR C<sub>ca</sub>

M06: UCFUTURE Trunk Style Data Centre Cca Cable 3mm sub-units



## GENERAL INFO

The M14 fibre optic cable is a versatile MPO trunk-style cable with a Cca CDR rating and up to 144 fibres in 8 or 12 fibre ø3mm sub-units. This cable is ideally suited for data centre applications that use MPO/MTP or MMC connections. It offers a space-saving solution for data centres without compromising performance. Its excellent fire protection rating makes it a reliable and safe option for a range of applications.

The intended application for this cable is as a trunk net cable inside data centres and central offices. It fits 12-way multi-fibre connectors without the need for a fan-out gland.

Latest version of this data sheet is available for download: [ProductFamily238884](https://www.prysmian.com/ProductFamily238884)

## CERTIFICATIONS AND DESIGN STANDARDS



**ISO/IEC 11801**

**EN 50575**

**EN 50173**

**IEC 60794-1-1**

**IEC 60794-1-21**

**IEC 60794-1-22**

**EN 50173-5**

**IEC 60794-2-20**

**IEC 61754-7-1**

**TIA/EIA 598-C**

Generic telecom cabling for customer premises

Cables in construction works subject to reaction to fire

Information technology - Generic cabling systems

Generic Specification Fibre Optic Cables

Mechanical Test Methods

Environmental Test Procedures

Information technology - Generic cabling systems for data centres

Indoor Cables Multi-fibre optical cables

Fibre optic connector interfaces – Type MPO connector family

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

-10 and (max) [°C] 60

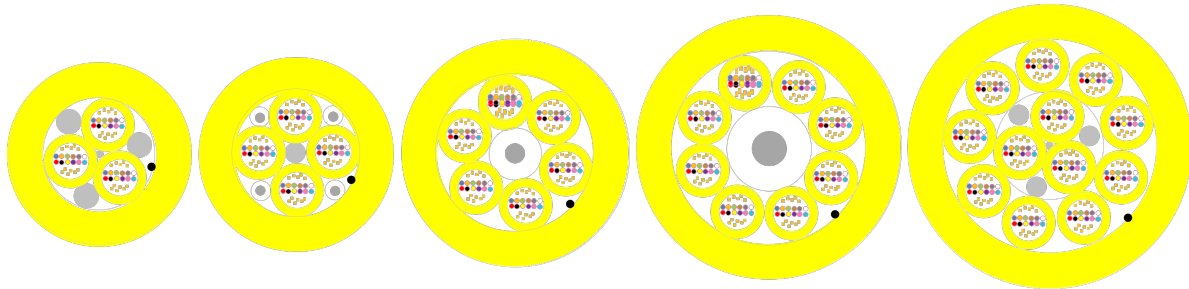
-10 and (max) [°C] 60

-10 and (max) [°C] 60

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

## CABLE CONSTRUCTION

Type of tube	12 primary coated fibres, nominally 242 µm, diameter ø3.0mm
Longitudinal water blocking cable	No
Rip cord	No
Material outer sheath	1.7mm, Halogenfree polymer, FireRes®
Cable shape	Round
Cable marking example	PRYSMIAN UCFUTURE FO I B3S M06 LSHF-FR Cca-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 <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

Sub-units colour code <i>each sub-unit is marked with a number from 1 up to 12 every 70mm</i>	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

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

Crush test	IEC 60794-1-21 E3	500 N/10cm
Impact test	IEC 60794-1-21 E4	20 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 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	acc. IEC/EN 61034-2
The reaction to fire according to the EN 50575	Cca - s1a, d1, a1

## CABLE DETAILS

Number of fibres per tube	Number of fibres	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]
12	24	11.5	115	230	1,200	2	126.9	1,347
12	72	13.9	139	278	1,200	2	189.2	2,315
12	144	17.5	175	350	1,200	2	266.1	3,360
12	48	12.1	121	242	1,200	2	148.2	1,667

## ORDERING DETAILS

Product name	Number of fibres	Number of fibres per tube	Category (fibre)	Fibre datasheet	Colour outer sheath	DOP number	SAP code
UCFUTURE FO I 3BS LSHF-FR C 24 SM7B.P YL	24	12	OS2	C24	Yellow	1012776	60076822
UCFUTURE FO I B3S LSHF-FR C 72 SM7B.P YL	72	12	OS2	C24	Yellow	1012779	60076828
UCFUTURE FO I B3S LSHF-FR C 144 SM7B.P Y	144	12	OS2	C24	Yellow	1012781	60076830
UCFUTURE FO I 3BS LSHF-FR C 24 OM4B 4003	24	12	OM4	C32	Erika-violet	1012777	60076823
UCFUTURE FO I B3S LSHF-FR C 48 OM4B 4003	48	12	OM4	C32	Erika-violet	1012778	60076827
UCFUTURE FO I B3S LSHF-FR C 144 OM4B EV	144	12	OM4	C32	Erika-violet	1012782	60076831

\*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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