

# M10: UC<sup>FUTURE</sup> Data Centre Cca Cable for Raceways

**Ø5.2 mm robust raceway MPO cable for data centres with 24 fibres, Class-Cca-s1a-d1-a1**



## Application

The intended application for this cable is internal connections inside data centres, where the cable is installed on “raceways” or other means where a robust cable is called for.

This cable features high flame retardance with Class-Cca approval.

Fits multi fibre connectors such as the MPO® and MTP® connectors according to IEC 61754-7-1

## Standards

EN 50173-5, IEC 60794-2-20, ISO/IEC 24764

## Flame resistance

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24; IEC 60754-1; IEC 60754-2; IEC 61034  
EN 50399: Class-Ccas1a-d1-a1, Class Dca; Class Eca

## Options

As an option this cable is available with 16 fibres.

## Construction

Fibre	24 primary coated fibres nominally 250 µm			
Fibre colour code  According to TIA/EIA 598-C also in agreement with IEC 60304	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	Aqua	24
Strength member	Ultra-high modulus Aramid yarns			
1 <sup>st</sup> Sheath	FireRes® halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised			
Reinforcement	Ultra-high modulus Aramid yarns			

# M10: UC<sup>FUTURE</sup> Data Centre Cca Cable for Raceways

2 <sup>nd</sup> Outer sheath	Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised, 0.5 mm	
Sheath colours	Cable with BendBright <sup>XS</sup> SM fibres G.657.A2	Yellow, RAL 1018
	Cable with MaxCap-BB-OM3	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4	Erika-violett RAL 4003
	Cable with BendBright WideCap-OM5	Lime-Green
Sheath printing	DRAKA UCFUTURE FO I LBP M10 LSHF-FR Cca-s1a-d1-a1 <fibre count> <fibre type> <fibre brand> >product code> <factory code> <batch no.> <meter> M	

## Physical properties

Property	IEC 60794-1-21/22 method	Value
Fibre count	-	24
Nominal dimensions	-	Inner: $\varnothing 3.5$ mm +0 mm -0.2 mm Outer: $\varnothing 5.2$ mm +0.1 mm
Nominal weight	-	22 kg/km
Tensile strength (dynamic)	E1	1000 N (fibre strain $\leq 0.6\%$ )
Tensile strength (permanent)	E1	300 N (fibre strain $\leq 0.2\%$ )
Compressive strength (crush) (N/100mm)	E3	500N
Impact	E4	5 Nm, R= 12.5 mm
Torsion	E07	Pass
Kink	E10	No Kink
Min. Bending radius [mm] – permanent	E11	53
Min. Bending radius [mm] - installation		106
Temperature range	F12	Operation and installation: 0°C to 50°C Storage: -20°C to 60°C

## Product codes – ordering information

Product code	DoP Number*	Product description	Fibre count	Fibre type	Fibre data sheet
60066970	1007086	UC <sup>FUTURE</sup> FO I LBP M10 LSHF-FR C 24 OM3B AQ	24	MaxCap-BB-OM3	C31
		UC <sup>FUTURE</sup> FO I LBP M10 LSHF-FR C 24 OM4B 4003	24	MaxCap-BB-OM4	C32
		UC <sup>FUTURE</sup> FO I LBP M10 LSHF-FR C 24 OM5B LG	24	WideCap-OM5	C39
		UC <sup>FUTURE</sup> FO I LBP M10 LSHF-FR C 24 SM7B.P YL	24	BendBright <sup>XS</sup> G.657.A2, tight geometry	C25
		UC <sup>FUTURE</sup> FO I LBP M10 LSHF-FR C 24 SM7A1.P YL	24	BendBright G.657.A1, tight geometry	C38

\*DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: [www.prysmiangroup.com/cpr](http://www.prysmiangroup.com/cpr)

© PRYSMIAN GROUP 2017, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.