

# M14: UC<sup>FUTURE</sup> Trunk Style Data Centre Cable

Up to 144-fibre cable for data centres with  $\varnothing$  2.0 mm & 12 fibres sub-units



## Application and installation

The intended application for this cable is as trunk net cable inside data centres and central offices.

Fits 12 way multi fibre connectors according to IEC 61754-7-1 such as the MPO<sup>®</sup> and MTP<sup>®</sup> connectors without the need for a fan-out gland

## Standards

EN 50173-5, IEC 60794-2-20, IEC 60794-2-50, 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-C<sub>ca</sub>1a-d1-a1, Class D<sub>ca</sub>; Class E<sub>ca</sub>

## Construction

Fiber sub-unit	12 primary coated fibres, nominally 242 $\mu$ m, sub-unit diameter $\varnothing$ 2.0 mm			
Fibre colours	1	Blue	7	Red
	2	Orange	8	Black
According to TIA/EIA 598-C also in agreement with IEC 60304	3	Green	9	Yellow
	4	Brown	10	Violet
	5	Grey	11	Pink
	6	White	12	Aqua
Strength member	Ultra-high modulus Aramid yarns			
Unit sheath	Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised			
Unit identification	Colour of unit sheath is the same as the outer sheath. The units are identified by numbers of 1 to 12 as required			
Central strength member	FRP rod with covering as required			
Wrapping	Tape			

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Sheath	1.7 mm FireRes <sup>®</sup> halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised	
Sheath colours	Cable with Singlemode fibres	Yellow, RAL 1018
	Cable with MaxCap-BB-OM3 fibres	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4 fibres	Erika violet RAL 4003
	Cable with Wideband-BB-OM5 fibres	Lime-Green
Sheath Printing	DRAKA UC <sup>FUTURE</sup> FO I B2S M14 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					
		24	36	48	72	96	144
Number of fibres	-	24	36	48	72	96	144
Nominal cable diameter [mm]	-	9.0	9.0	9.0	9.6	11.0	13.6
Nominal cable weight [kg/km]	-	82	82	82	122	153	202
Min. bending radius [mm] - installation	E11	90	90	90	96	110	136
Min. bending radius [mm] - permanent	E18a	180	180	180	192	220	272
Installation tensile strength [N] (≥ 0.5%)	E01	600	600	600	1100	1100	1100
Permanent tensile strength [N] (≥ 0.25%)	E01	400	400	400	750	750	750
Compressive strength (crush) [N/100 mm]	E03	2000 N					
Impact	E04	20 Nm, R= 300 mm 15 Nm, R= 12.5 mm					
Torsion	E07	6 cycles -+ 1turn. Pass					
Kink	E10	No Kink					
Temperature range	F01	Operation and installation: -10°C to 70°C. Storage: -20°C to 50°C					

### Product codes – ordering information

Product Code	DoP Number*	Product description	Fibre count	Fibre type	Fibre data sheet
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 24 OM3B AQ	24	MaxCap-BB-OM3	C31
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 48 OM3B AQ	48	MaxCap-BB-OM3	C31
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 72 OM3B AQ	72	MaxCap-BB-OM3	C31
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 96 OM3B AQ	96	MaxCap-BB-OM3	C31
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 144 OM3B AQ	144	MaxCap-BB-OM3	C31
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 24 OM4B 4003	24	MaxCap-BB-OM4	C32
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 48 OM4B 4003	48	MaxCap-BB-OM4	C32
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 72 OM4B 4003	72	MaxCap-BB-OM4	C32
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 96 OM4B 4003	96	MaxCap-BB-OM4	C32
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 144 OM4B 4003	144	MaxCap-BB-OM4	C32
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 24 OM5B LG	24	WideCap-OM5	C39
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 48 OM5B LG	48	WideCap-OM5	C39
		UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 72 OM5B LG	72	WideCap-OM5	C39

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	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 96 OM5B LG	96	WideCap-OM5	C39
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 144 OM5B LG	144	WideCap-OM5	C39
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 24 SM7B YL	24	BendBright <sup>XS</sup> G.657.A2	C24
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 48 SM7B YL	48	BendBright <sup>XS</sup> G.657.A2	C24
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 72 SM7B YL	72	BendBright <sup>XS</sup> G.657.A2	C24
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 96 SM7B YL	96	BendBright <sup>XS</sup> G.657.A2	C24
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 144 SM7B YL	144	BendBright <sup>XS</sup> G.657.A2	C24
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 24 SM7B.P YL	24	BendBright <sup>XS</sup> G.657.A2 - tight geometry	C25
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 144 SM7B.P YL	144	BendBright <sup>XS</sup> G.657.A2 - tight geometry	C25
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 24 SM7A1 YL	24	BendBright G.657.A1	C17
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 48 SM7A1 YL	48	BendBright G.657.A1	C17
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 72 SM7A1 YL	72	BendBright G.657.A1	C17
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 96 SM7A1 YL	96	BendBright G.657.A1	C17
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 144 SM7A1 YL	144	BendBright G.657.A1	C17
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 24 SM7A1.P YL	24	BendBright G.657.A1 - tight geometry	C38
	UC <sup>FUTURE</sup> FO I B2S M14 LSHF-FR 144 SM7A1.P YL	144	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)

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