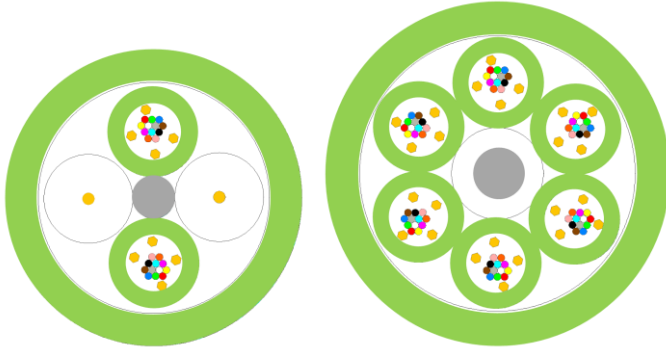


M06: UC^{FUTURE} Trunk Style Data Centre Cable

Up to 144-fibre cable for data centres with \varnothing 3.0 mm fibre 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[®] and MTP[®] 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 D_{ca}; Class E_{ca}

Construction

Fiber unit	12 primary coated fibres, nominally 242 μ m, diameter \varnothing 3 mm	
Fibre colours	According to TIA/EIA 598-C also in agreement with IEC 60304: Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink and 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 1 ... 8 as required	
Central strength member	FRP rod with covering as required	
Wrapping	Tape	
Sheath	FireRes [®] halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised	
Sheath colours	Cable with BendBright ^{XS} SM fibres G.657.A2, BendBright SM fibres G.657.A1	Yellow, RAL 1018
	Cable with MaxCap-BB-OM3 and MaxCap-BB-OM4 (optional)	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4 fibres	Erika violet RAL 4003
	Cable with Wideband-BB-OM5 fibres	Lime-Green

M06: UC^{FUTURE} Trunk Style Data Centre Cable

Physical properties

Property	IEC 60794-1-2 method	Value					
		24	36	48	72	96	144
Number of fibres	-	24	36	48	72	96	144
Nominal cable diameter [mm]	-	10.0	10.0	10.0	12.0	14.1	15
Nominal cable weight [kg/km]	-	65	65	65	104	151	220
Heath of combustion [MJ/km] (calculated) [kWh/m]		1250	1200	1170	1820	2570	4300
		0.35	0.33	0.32	0.50	0.71	1.2
Minimum bending radius [mm]	E11	125	125	125	150	175	175
Installation tensile strength [N]	E01	600	600	600	1100	1100	1100
Permanent tensile strength [N]	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	Product description	Fibre count	Fibre type	Fibre data sheet
UC ^{FUTURE} FO I B3S LSHF-FR 24 OM3B AQ		24	MaxCap-BB-OM3 multi mode	C31
UC ^{FUTURE} FO I B3S LSHF-FR 96 OM3B AQ		96	MaxCap-BB-OM3 multi mode	C31
UC ^{FUTURE} FO I B3S LSHF-FR 24 OM4B 4003		24	MaxCap-BB-OM4 multi mode	C32
UC ^{FUTURE} FO I B3S LSHF-FR 96 OM4B 4003		96	MaxCap-BB-OM4 multi mode	C32
UC ^{FUTURE} FO I B3S LSHF-FR 24 OM5B LG		24	Wideband-BB-OM5 multi mode	C39
UC ^{FUTURE} FO I B3S LSHF-FR 96 OM5B LG		96	Wideband-BB-OM5 multi mode	C39
UC ^{FUTURE} FO I B3S LSHF-FR 24 SM7B YL		24	BendBright ^{XS} G.657.A2 singlemode	C24
UC ^{FUTURE} FO I B3S LSHF-FR 96 SM7B YL		96	BendBright ^{XS} G.657.A2 singlemode	C24
UC ^{FUTURE} FO I B3S LSHF-FR 24 SM7B.P YL		24	BendBright ^{XS} G.657.A2 with tight geometry for patch cords	C25
UC ^{FUTURE} FO I B3S LSHF-FR 96 SM7B.P YL		96	BendBright ^{XS} G.657.A2 with tight geometry for patch cords	C25
UC ^{FUTURE} FO I B3S LSHF-FR 24 SM7A1 YL		24	BendBright G.657.A1 singlemode	C17
UC ^{FUTURE} FO I B3S LSHF-FR 96 SM7A1 YL		96	BendBright G.657.A1 singlemode	C17
UC ^{FUTURE} FO I B3S LSHF-FR 24 SM7A1.P YL		24	BendBright G.657.A1 with tight geometry for patch cords	C38
UC ^{FUTURE} FO I B3S LSHF-FR 96 SM7A1.P YL		96	BendBright G.657.A1 with tight geometry for patch cords	C38

© 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.