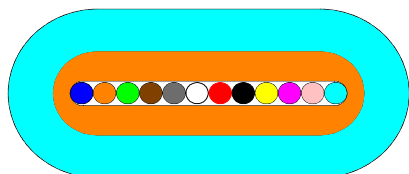


M01: UC^{FUTURE} Patch Cord Style Data Centre Cable

Ribbon cable for data centres with 12 fibres



Application and installation

The intended application for this cable is as patch cords for data centres.

Fits multi fibre connectors according to IEC 61754-7-1 such as the MPO® and MTP® connectors (MTP is a trademark of USConec)

Standards

EN 50173-5, IEC 60794-2-30, ISO/IEC 24764

Flame resistance

LSHF-FR: IEC 60332-1-2, IEC 60332-2-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2

Construction

Fibre	1 fibre ribbon 0.3 mm x 3.1 mm	
Fibre colours	According to TIA-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	
Sheath	FireRes® 0.5 mm, 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	Yellow, RAL 1021
	Cable with MaxCap-BB-OM2 fibres	Orange, RAL 2003
	Cable with MaxCap-BB-OM3 and MacCap-BB-OM4 fibres	Aqua, RAL 6027
Print legend	DRAKA UCFUTURE FO I RIP DI N LSHF-FR 12 <FIBER_TYPE> <ITEM NO> 05 <BATCH NO> <METER> M	

M01: UC^{FUTURE} Patch Cord Style Data Centre Cable

Physical properties

Attribute	IEC 60794-1-2 Method	Limits
Fibre count		12
Nominal dimensions	-	2.0 mm ± 0.3 mm x 4.5 mm ± 0.4 mm
Nominal weight	-	9 kg/km
Tensile strength (dynamic)	E01	200 N
Tensile strength (permanent)	E01	100 N
Compressive strength (crush) (N/100mm)	E03	1000N
Impact	E04	3 Nm, R= 12.5 mm
Repeated Bending	E06	R = 25 mm 300 cycles
Torsion	E07	Pass
Min. Bending radius	E11	R = 7.5 mm, max attenuation variation: 0.2 dB/turn R= 25 mm no attenuation variation / 10 turns
Temperature range	F01	Operation and installation: -0°C to 50°C. Storage: -20°C to 50°C
Heath of Combustion (calculated)	-	240 MJ/km 0.7 kWh/m

Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Draka Material code	Fibre count	Fibre type	Fibre data sheet
	UCFUTURE FO I RIP DI N LSHF-FR 12 OM3B	1022542	12	MaxCap-BB-OM3 multi mode	C31
	UCFUTURE FO I RIP DI N LSHF-FR 12 OM4B	1022543	12	MaxCap-BB-OM4 multi mode	C32
	UCFUTURE FO I RIP DI N LSHF-FR 12 SM7B	1022541	12	BendBrightXS G.657.A2	C24

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M02: UC^{FUTURE} Patch Cord Style Data Centre Cable

ø3.0 mm patch cord cable for data centers with 12 fibers



E_{ca}
CPR

Application and Installation

The intended application for this cable is as patch cords for data centres.

Fits to multi fibre connectors such as 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 60332-2-2; IEC 60754-1; IEC 60754-2; IEC 61034, Class E_{ca}

Options

As an option this cable is available with 2, 4, 8 and 10 fibres.

Construction

Fibre	12 primary coated fibres, nominally 242 µm	
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	
Sheath	FireRes® halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised, 0.4 mm	
Sheath colours	Cable with BendBright ^{XS} SM fibres G.657.A2	Yellow, RAL 1018
	Cable with MaxCap-BB-OM3	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4	Erika violet RAL 4003
	Cable with BendBright WideCap-OM5	Lime Green

M02: UC^{FUTURE} Patch Cord Style Data Centre Cable

Physical Properties

Property	IEC 60794-1-21/22 Method	Value
Fibre count	-	12
Nominal dimensions	-	3.0 mm ± 0.15 mm
Nominal weight [kg/km]	-	9
Tensile strength (dynamic)	E1	220 N
Tensile strength (permanent)	E1	110 N
Compressive strength (crush) (N/100mm)	E3	500N
Impact	E4	4 Nm, R= 12.5 mm
Torsion	E07	Pass
Kink	E10	No Kink
Min. Bending radius	E11	R = 15 mm
Temperature range	F1	Operation and installation: -0°C to 70°C. Storage: -20°C to 50°C
Heat of combustion	-	200 MJ/km 0.5 KWh/m

Product codes – ordering information

Product Code	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60031454	UC ^{FUTURE} FO I LBP DI LSHF-FR 12 OM3B AQ	12	MaxCap-BB-OM3	C31
60032214	UC ^{FUTURE} FO I LBP DI LSHF-FR 8 OM4B 4003	8	MaxCap-BB-OM4	C32
60032675	UC ^{FUTURE} FO I LBP DI LSHF-FR 12 OM4B 4003	12	MaxCap-BB-OM4	C32
	UC ^{FUTURE} FO I LBP DI LSHF-FR 8 OM5B LG	8	WideCap-OM5	C39
	UC ^{FUTURE} FO I LBP DI LSHF-FR 12 OM5B LG	12	WideCap-OM5	C39
60019809	UC ^{FUTURE} FO I LBP DI LSHF-FR 12 SM7B YL	12	BendBright ^{XS} G.657.A2	C24
60048325	UC ^{FUTURE} FO I LBP DI LSHF-FR 12 SM7B.P YL	12	BendBright ^{XS} G.657.A2, tight geometry	C25
	UC ^{FUTURE} FO I LBP DI LSHF-FR 12 SM7A1.P YL	12	BendBright ^{XS} G.657.A1, tight geometry	C38

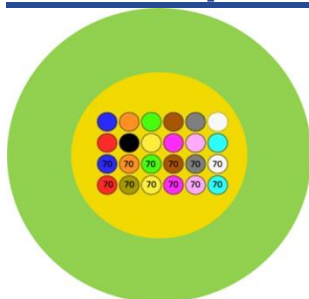
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M03: UC^{FUTURE} Patch Cord Style Data Centre Cable

ø3.6 mm patch cord cable for data centres with 24 fibres



E_{ca}
CPR

Application

The intended application for this cable is as patch cords for data centres.
Fits 24 fibre MPO® and MTP® connectors according to IEC 61754-7-2

Standards

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

Flame Resistance

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-2-2; IEC 60754-1; IEC 60754-2; IEC 61034, Class E_{ca}

Options

As an option this cable is available with 16 and 20 fibres.

Construction

Fibre	24 primary coated fibres nominally 242 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	Aqua w/mark every 70mm
Strength member	Ultra high modulus Aramid yarns			
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			Yellow, RAL 1018
	Cable with MaxCap-BB-OM3			Aqua, RAL 6027
	Cable with MaxCap-BB-OM4			Erika-violet RAL 4003
	Cable with BendBright WideCap-OM5			Lime Green

M03: UC^{FUTURE} Patch Cord Style Data Centre Cable

Physical Properties

Property	IEC 60794-1-21/22 method	Value
Fibre count	-	24
Nominal dimensions	-	3.6 mm +0.1 mm -0.3 mm
Nominal weight	-	11 kg/km
Tensile strength (dynamic)	E1	220 N
Tensile strength (permanent)	E1	110 N
Compressive strength (crush) (N/100mm)	E3	500N
Impact	E4	4 Nm, R= 12.5 mm 15 Nm, R = 300 mm
Torsion	E07	Pass
Kink	E10	No Kink
Min. Bending radius	E11	R = 15 mm
Temperature range	F1	Operation and installation: -0°C to 60°C. Storage: -20°C to 60°C
Heat of combustion (calculated)	-	200 MJ/km 0,5 kWh/m

Product Codes

Product Code	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
	UC ^{FUTURE} FO I LBP DI LSHF-FR 24 OM3B AQ	24	MaxCap-BB-OM3	C31
	UC ^{FUTURE} FO I LBP DI LSHF-FR 24 OM4B 4003	24	MaxCap-BB-OM4	C32
	UC ^{FUTURE} FO I LBP DI LSHF-FR 24 OM5B LG	24	WideCap-OM5	C39
	UC ^{FUTURE} FO I LBP DI LSHF-FR 24 SM7B YL	24	BendBright ^{XS} G.657.A2	C24
	UC ^{FUTURE} FO I LBP DI LSHF-FR 24 SM7B.P YL	24	BendBright ^{XS} G.657.A2, tight geometry	C25
	UC ^{FUTURE} FO I LBP DI LSHF-FR 24 SM7A1.P YL	24	BendBright ^{XS} G.657.A1, tight geometry	C38

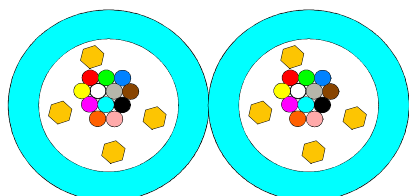
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M04: UC^{FUTURE} Patch Cord Style Data Centre Cable

2 x Ø3.0 mm patch cord cable for data centres with 2 x 12 fibres



Eca
CPR

Application and installation

The intended application for this cable is as patch cords for data centres.
Fits multi fibre connectors such as the MPO® and MTP® connectors
For two 12 fibres 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 60332-2-2; IEC 60754-1; IEC 60754-2; IEC 61034, Class E_{ca}

Options

As an option this cable is available with 2 x 2; 2 x 4; 2 x 8 and 2 x 10 fibers.

Construction

Fibre	24 primary coated fibres nominally 242 µm	
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	
Sheath	FireRes® halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised; 0.4 mm	
Sheath colours	Cable with BendBright ^{XS} SM fibres G.657.A2	Yellow, RAL 1018
	Cable with MaxCap-BB-OM3	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4	Erika-violet RAL 4003
	Cable with BendBright WideCap-OM5	Lime Green

M04: UC^{FUTURE} Patch Cord Style Data Centre Cable

Physical Properties

Property	IEC 60794-1-2 method	Value
Fibre count	-	24
Nominal dimensions	-	6.2 mm x 3.0 mm +0.1 mm -0.3 mm
Nominal weight	-	18 kg/km
Tensile strength (dynamic)	E1	440 N
Tensile strength (permanent)	E1	220 N
Compressive strength (crush) (N/100mm)	E3	400N
Impact	E4	4 Nm, R= 12.5 mm
Kink	E10	No kink
Min. bending radius	E11	R = 20 mm
Temperature range	F1	Operation and installation: -0°C to 50°C. Storage: -20°C to 50°C
Heat of combustion (calculated)	-	400 MJ/km 1.0 kWh/m

Product Codes

Product Code	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
UC ^{FUTURE}	FO I LBP DI LSHF-FR 2 x12 OM3B	24	MaxCap-BB-OM3	C31
UC ^{FUTURE}	FO I LBP DI LSHF-FR 2 x 12 OM4B	24	MaxCap-BB-OM4	C32
UC ^{FUTURE}	FO I LBP DI LSHF-FR 2 x 12 OM5B	24	WideCap-OM5	C39
UC ^{FUTURE}	FO I LBP DI LSHF-FR 2 x 12 SM7B	24	BendBright ^{XS} G.657.A2	C24
UC ^{FUTURE}	FO I LBP DI LSHF-FR 2 x 12 SM7B.P	24	BendBright ^{XS} G.657.A2, tight geometry	C25
UC ^{FUTURE}	FO I LBP DI LSHF-FR 2 x 12 SM7A1.P	24	BendBright G.657.A1, tight geometry	C38

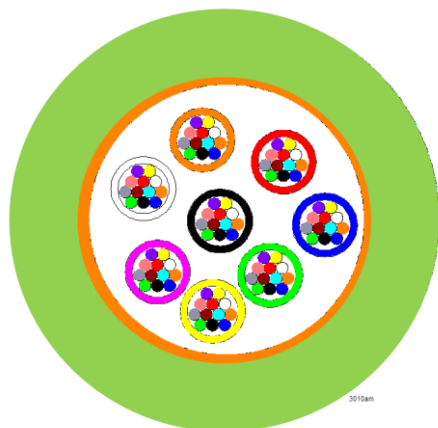
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M05: UC^{FUTURE} Distribution Style Data Centre Cable

Ultra compact multi-fibre cable for data centres with 12 fibre Flextubes[®] and up to 144 fibres



Application and installation

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

Fits to 12 way multi fibre connectors according to IEC 61754-1-1 such as the MPO[®] and MTP[®] connectors with proper fan-out

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 60754-1; IEC 60332-3-24; IEC 60754-2; IEC 61034, EN 50399 Class D_{ca}s2d2, Class E_{ca}

Construction

Dry Flextube	12 primary coated fibres nominally 242 µm, diameter ø1.4 mm	
Fibre and tube 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	
Sheath	FireRes [®] halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised	
Sheath colours	Cable with SM fibres: BendBright ^{XS} G.657.A2, BendBright G.657.A1	Yellow, RAL 1018
	Cable with MaxCap-BB-OM3	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4	Erika-violet RAL 4003
	Cable with BendBright WideCap-OM5	Lime-Green

M05: UC^{FUTURE} Distribution Style Data Centre Cable

Physical Properties

Property	IEC 60794-1-2 method	Value									
Number of fibers		12	24	36	48	60	72	96	144	288	
Nominal diameter [mm]		5.1	6.1	6.4	6.5	7.0	7.5	8.5	9.0	11.3	
Nominal cable weight [kg/km]		25	30	35	40	45	50	60	70	108	
Min. Bending radius [mm]		50	50	50	50	50	50	50	60	60	
Installation tensile strength	E1	1000 N, <0.5 % fibre strain									
Compressive strength (crush) (N/100mm)	E3	2000 N									
Impact	E4	15 Nm, R= 300 mm 10 NM, R= 12.5 mm									
Torsion	E07	6 cycles -+ 1turn. Pass									
Kink	E10	No Kink									
Temperature range	F1	Operation and installation: -0°C to 70°C. Storage: -20°C to 50°C									
Heat of combustion [MJ/km]	-	425	530	640	700	730	875	1080	1290	2030	
(calculated) [kWh/m]		0.12	0.15	0.18	0.19	0.20	0.24	0.3	0.36	0.56	

Product Codes

Product Code	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60059251	UC ^{FUTURE} I FS LSHF-FR 24 OM3B AQ	24	MaxCap-BB-OM3	C31
60059252	UC ^{FUTURE} I FS LSHF-FR 48 OM3B AQ	48	MaxCap-BB-OM3	C31
60030424	UC ^{FUTURE} I FS LSHF-FR 96 OM3B AQ	96	MaxCap-BB-OM3	C31
	UC ^{FUTURE} I FS LSHF-FR 48 OM4B 4003	48	MaxCap-BB-OM4	C32
	UC ^{FUTURE} I FS LSHF-FR 60 OM4B 4003	60	MaxCap-BB-OM4	C32
	UC ^{FUTURE} I FS LSHF-FR 72 OM4B 4003	72	MaxCap-BB-OM4	C32
	UC ^{FUTURE} I FS LSHF-FR 96 OM4B 4003	96	MaxCap-BB-OM4	C32
	UC ^{FUTURE} I FS LSHF-FR 144 OM4B 4003	144	MaxCap-BB-OM4	C32
	UC ^{FUTURE} I FS LSHF-FR 48 OM5 LG	48	WideCap-OM5	C39
	UC ^{FUTURE} I FS LSHF-FR 72 OM5 LG	72	WideCap-OM5	C39
	UC ^{FUTURE} I FS LSHF-FR 96 OM5 LG	96	WideCap-OM5	C39
	UC ^{FUTURE} I FS LSHF-FR 144 OM5 LG	144	WideCap-OM5	C39
60032824	UC ^{FUTURE} I FS LSHF-FR 48 SM7B YL	48	BendBright ^{XS} G.657.A2	C24
	UC ^{FUTURE} I FS LSHF-FR 96 SM7B YL	96	BendBright ^{XS} G.657.A2	C24
	UC ^{FUTURE} I FS LSHF-FR 144 SM7B YL	144	BendBright ^{XS} G.657.A2	C24
	UC ^{FUTURE} I FS LSHF-FR 48 SM7B.P YL	48	BendBright ^{XS} G.657.A2 with tight geometry for patch cords	C25
60059249	UC ^{FUTURE} I FS LSHF-FR 24 SM7A1 YL	24	BendBright G.657.A1	C17
60059250	UC ^{FUTURE} I FS LSHF-FR 48 SM7A1 YL	48	BendBright G.657.A1	C17
	UC ^{FUTURE} I FS LSHF-FR 96 SM7A1 YL	96	BendBright G.657.A1	C17
	UC ^{FUTURE} I FS LSHF-FR 144 SM7A1 YL	144	BendBright G.657.A1	C17
	UC ^{FUTURE} I FS LSHF-FR 48 SM7A1.P YL	48	BendBright G.657.A1 with tight geometry for patch cords	C38

M05: UC^{FUTURE} Distribution Style Data Centre Cable

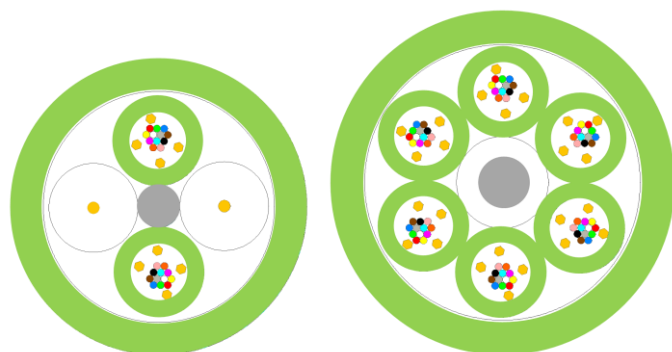
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M06: UC^{FUTURE} Trunk Style Data Centre Cable

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					
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]		1250	1200	1170	1820	2570	4300
(calculated) [kWh/m]		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

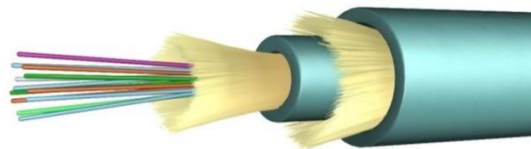
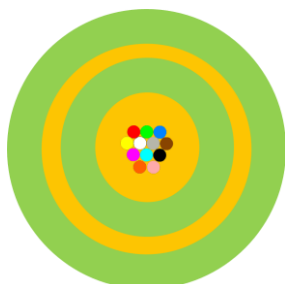
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M07: UC^{FUTURE} Data Centre Cable For Raceways

Ø4.5 mm robust cable for data centres with 12 fibres



Eca
CPR

Application and installation

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.

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 60754-1; IEC 60754-2; IEC 61034; Class E_{ca}

Options

As an option this cable is available with 2, 4, 8 and 10 fibres.

Construction

Fibre	12 primary coated fibres nominally 242 µm	
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	
Inner sheath	FireRes® halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised, 0.45 mm	
Reinforcement	Ultra high modulus Aramid yarns	
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 ^{XS} SM fibres G.657.A2	Yellow, RAL 1018
	Cable with MaxCap-BB-OM3	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4	Erika violet RAL 4003
	Cable with BendBright WideCap-OM5	Lime-Green

Physical properties

M07: UC^{FUTURE} Data Centre Cable For Raceways

Property	IEC 60794-1-21/22 method	Value
Fibre count	-	12
Nominal dimensions	-	Inner: ø3.0 mm +0.1 mm -0.2 mm Outer: ø4.5 mm +0.2 mm -0.2 mm
Nominal weight	-	20 kg/km
Tensile strength (dynamic)	E1	1000 N
Tensile strength (permanent)	E1	500 N
Compressive strength (crush)	E3	500N
Impact	E4	5 Nm, R= 12.5 mm
Torsion	E07	Pass
Kink	E10	No kink
Min. bending radius	E11	R = 20 mm
Temperature range	F12	According to IEC 60794-2-50 F12: -10°C to 70°C

Product codes – ordering information

Product code	Product description	Fibre count	Fibre type	Fibre data sheet
60029956	UC ^{FUTURE} FO LBP M07 LSHF-FR 12 OM3B AQ	12	MaxCap-BB-OM3	C31
60032671	UC ^{FUTURE} FO LBP M07 LSHF-FR 12 OM4B 4003	12	MaxCap-BB-OM4	C32
	UC ^{FUTURE} FO LBP M07 LSHF-FR 12 OM5B LG	12	WideCap-OM5	C39
60038485	UC ^{FUTURE} FO LBP M07 LSHF-FR 12 SM7B YL	12	BendBright ^{XS} G.657.A2	C24
	UC ^{FUTURE} FO LBP M07 LSHF-FR 12 SM7B.P YL	12	BendBright ^{XS} G.657.A2, tight geometry	C25
	UC ^{FUTURE} FO LBP M07 LSHF-FR 12 SM7A1.P YL	12	BendBright G.657.A1, tight geometry	C38

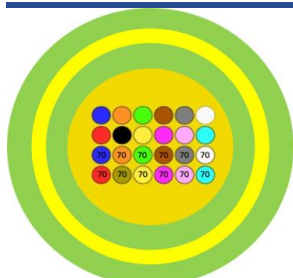
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M08: UC^{FUTURE} Data Centre Cable for Raceways

Ø5.3 mm robust raceway cable for data centres with 24 fibres



Eca
CPR

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.

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 60332-2-2; IEC 60754-1; IEC 60754-2; IEC 61034, Class E_{ca}

Options

As an option this cable is available with 16 and 20 fibres.

Construction

Fibre	24 primary coated fibres nominally 242 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	Aqua w/mark every 70mm
Strength member	Ultra high modulus Aramid yarns			
1 st Sheath	FireRes® halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised			
Reinforcement	Ultra high modulus Aramid yarns			
2 nd 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 ^{XS} 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

M08: UC^{FUTURE} Data Centre Cable for Raceways

Physical properties

Property	IEC 60794-1-21/22 method	Value
Fibre count	-	24
Nominal dimensions	-	Inner: $\varnothing 3.6 \text{ mm} +0.1 \text{ mm} -0.3 \text{ mm}$ Outer: $\varnothing 5.3 \text{ mm} +0.2 \text{ mm} -0.2 \text{ mm}$
Nominal weight	-	22 kg/km
Tensile strength (dynamic)	E1	1000 N
Tensile strength (permanent)	E1	500 N
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	E11	R = 20 mm
Temperature range	F1	Operation and installation: -10°C to 70°C. Storage: -20°C to 60°C

Product codes – ordering information

Product code	Product description	Fibre count	Fibre type	Fibre data sheet
	UC ^{FUTURE} FO LBP M08 LSHF-FR 24 OM3B AQ	24	MaxCap-BB-OM3	C31
	UC ^{FUTURE} FO LBP M08 LSHF-FR 24 OM4B 4003	24	MaxCap-BB-OM4	C32
	UC ^{FUTURE} FO LBP M08 LSHF-FR 24 OM5B LG	24	WideCap-OM5	C39
	UC ^{FUTURE} FO LBP M08 LSHF-FR 24 SM7B YL	24	BendBright ^{XS} G.657.A2	C24
	UC ^{FUTURE} FO LBP M08 LSHF-FR 24 SM7B.P YL	24	BendBright ^{XS} G.657.A2, tight geometry	C25
	UC ^{FUTURE} FO LBP M08 LSHF-FR 24 SM7A1.P YL	24	BendBright G.657.A1, tight geometry	C38

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