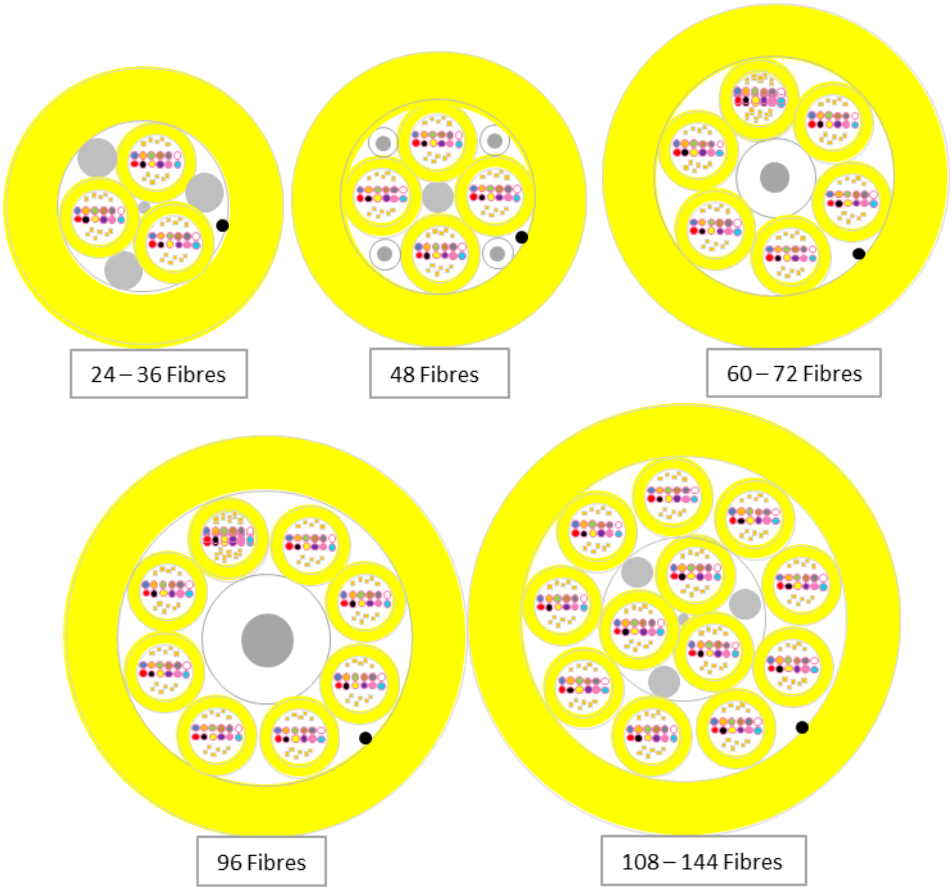
M06: UC^{FUTURE} Trunk Style Data Centre Cable

24 – 144 fibres cable for data centres with ø 3.0 mm fibre units with 12 Fibres



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;

Construction

Fiber unit	12 primary coated fibres, nominally 242 µm, diameter ø3 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

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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	1.0 mm 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	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4 fibres	Erika violet RAL 4003
	Cable with Wideband-BB-OM5 fibres	Lime-Green

Physical properties

Property	IEC 60794-1-21/22 method	Value					
Number of fibres	-	24	36	48	72	96	144
Nominal cable diameter [mm]	-	9.9	9.9	10.5	13.5	14.1	15.9
Nominal cable weight [kg/km]	-	80	87	94	107	151	220
Heath of combustion [MJ/km] (calculated) [kWh/m]		1250 0.35	1200 0.33	1170 0.32	1820 0.50	2570 0.71	4300 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

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	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