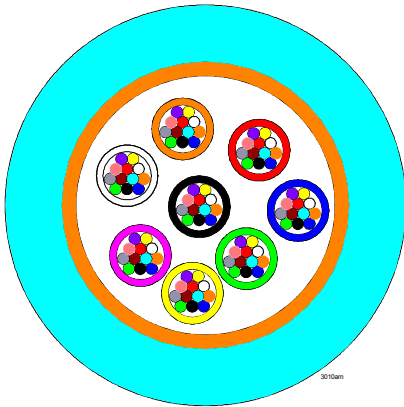


M05: UC^{FUTURE} Distribution style data centre cable

Ultra compact multi-fibre cable for data centres with 12 fibre Flextubes and 36 – 144 fibres



Application and installation

The intended application for this cable is as distribution cable inside data centres and central offices. Fits 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 60754-2; IEC 61034

Options

As an option the cable variant with MaxCap-BB-OM4 fibres is available in the colour Erikaviolett RAL 4003

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 BendBright ^{XS} SM fibres G.657.A2	Yellow, RAL 1021
	Cable with MaxCap-BB-OM2	Orange, RAL 2003
	Cable with MaxCap-BB-OM3 and MacCap-BB-OM4 fibres	Aqua, RAL 6027

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Physical properties

Property	IEC 60794-1-2 method	Value						
Number of fibers		36	48	60	72	96	108	144
Nominal diameter [mm]		6.0	6.5	7.0	7.5	8.5		9.0
Nominal cable weight [kg/km]		35	40	45	50	60		70
Min. Bending radius [mm]		50	50	50	50	50	60	60
Installation tensile strength	E1	1000 N, <0.5 % fibre strain						
Compressive strength (crush)	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] (calculated) [kWh/m]	-	650 0.18	1350 0.37		2200 0.61	3300 0.92		5750 1.59

Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Draka Material code	Fibre count	Fibre type	Fibre data sheet
60030424	UC ^{FUTURE} I FS LSHF-FR 96 OM3B	1025891	96	MaxCap-BB-OM3	C31
60032684	UC ^{FUTURE} I FS LSHF-FR 48 OM4B		48	MaxCap-BB-OM4	C32
60032688	UC ^{FUTURE} I FS LSHF-FR 60 OM4B		60	MaxCap-BB-OM4	C32
60032690	UC ^{FUTURE} I FS LSHF-FR 72 OM4B		72	MaxCap-BB-OM4	C32
60032664	UC ^{FUTURE} I FS LSHF-FR 96 OM4B	1025891	96	MaxCap-BB-OM4	C32
60032691	UC ^{FUTURE} I FS LSHF-FR 144 OM4B	1028195	144	MaxCap-BB-OM4	C32

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