

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

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Physical Properties

Property	IEC 60794-1-2 method	Value									
		12	24	36	48	60	72	96	144	288	
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

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