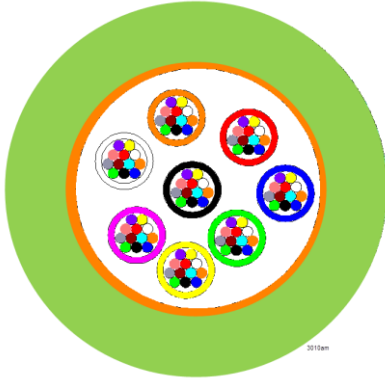


M05: UC^{FUTURE} Dry Tube Data Centre Cable

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}s2d2a1, Class E_{ca}

Construction

Dry Flextube	ø1.4 mm dry tubes with 12 primary coated 250 µm fibres	
Fibre colours	1 Blue	7 Red
According to TIA/EIA 598-C also in agreement with IEC 60304	2 Orange	8 Black
	3 Green	9 Yellow
	4 Brown	10 Violet
	5 Grey	11 Pink
	6 White	12 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
Sheath printing	DRAKA UCFUTURE FO I FS M05 LSHF-FR Dca-s2-d2-a1 <fibre count> <fibre type> <fibre brand> >product code> <factory code> <batch no.> <meter> M	

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Physical Properties

Property	IEC 60794-1-21/22 method	Value									
		12	24	36	48	60	72	96	144		
Number of fibers		12	24	36	48	60	72	96	144		
Nominal diameter [mm]		5.1	6.1	6.4	6.5	7.0	7.5	8.5	9.0		
Nominal cable weight [kg/km]		25	30	35	40	45	50	60	70		
Min. Bending radius [mm] - Installation	E11	51	61	64	65	70	75	85	90		
Min. Bending radius [mm] - permanent	E18a	102	122	128	130	140	150	170	180		
Installation tensile strength	E1	1000 N (fibre strain ≤ 0.5%)									
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: -10°C to 70°C. Storage: -20°C to 50°C									
Heat of combustion [MJ/km]	-	425	530	640	700	730	875	1080	1290		
(calculated) [kWh/m]		0.12	0.15	0.18	0.19	0.20	0.24	0.3	0.36		

Product Codes

Product Code	DoP Number*	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	OS2 - BendBright ^{XS} G.657.A2	C24
		UC ^{FUTURE} I FS LSHF-FR 96 SM7B YL	96	OS2 - BendBright ^{XS} G.657.A2	C24
		UC ^{FUTURE} I FS LSHF-FR 144 SM7B YL	144	OS2 - BendBright ^{XS} G.657.A2	C24
60059249	1006298	UC ^{FUTURE} I FS LSHF-FR 24 SM7A1 YL	24	OS2 - BendBright G.657.A1	C17
60059250	1006624	UC ^{FUTURE} I FS LSHF-FR 48 SM7A1 YL	48	OS2 - BendBright G.657.A1	C17
60066021	1006741	UC ^{FUTURE} I FS LSHF-FR 96 SM7A1 YL	96	OS2 - BendBright G.657.A1	C17
60064329	1005906	UC ^{FUTURE} I FS LSHF-FR 144 SM7A1 YL	144	OS2 - BendBright G.657.A1	C17

*DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: www.prysmiangroup.com/cpr

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