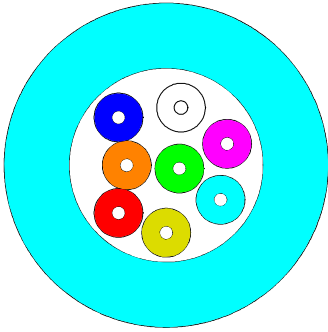


D02b: UC^{FIBRE™} Distribution Cable

Indoor, distribution or mini break-out cable with ES9 tight buffer, 2-24 fibres and FireRes[®] sheath, VDE: J-V(ZN)H

**D_{ca}**
CPR**E_{ca}**
CPR

Application and Installation

This distribution or mini-break-out cable can be used for many indoor applications.

The cable features Draka's ES9 tight buffer.

Typical cable applications include: LAN and WAN backbones, central office interconnections, backbones in data centres, and many other.

The cable features aramid yarns for ease of installation.

The cable is suited for installation in ducts and on trays.

The cable features an UV stabilised, water and moisture resistant FireRes[®] sheathing, the cable is thus well suited for shorter outdoor runs.

Standards

ISO 11801-1, EN 187 000, IEC 60794-2, EN 50 173-1, IEC 60794-2-20

Flame Resistance

LSHF-FR (LSOH-FR): IEC 60332-1-2; IEC 60332-3-24, IEC 60754-2; IEC 61034, EN 50399 Class D_{ca}S2d2a1, Class E_{ca}

D02b: UC^{FIBRE™} Distribution Cable

Construction

Fibre	2 - 24 tightly buffered fibres 900 µm ± 50 µm.							
Fibre colour code	1	Red	13	Red w/mark every 70mm				
	2	Green	14	Green w/mark every 70mm				
	3	Blue	15	Blue w/mark every 70mm				
	4	Yellow	16	Yellow w/mark every 70mm				
	5	White	17	White w/mark every 70mm				
	6	Grey	18	Grey w/mark every 70mm				
	7	Brown	19	Brown w/mark every 70mm				
	8	Violet	20	Violet w/mark every 70mm				
	9	Turquoise	21	Turquoise w/mark every 70mm				
	10	Black	22	White w/mark every 35mm				
	11	Orange	23	Orange w/mark every 70mm				
	12	Pink	24	Pink w/mark every 70mm				
Strength member	Ultra high modulus aramid yarns							
Sheath colours	Cable with Singlemode fibres				Yellow, RAL 1018			
	Cable with OM1 fibres				Grey, RAL 7037			
	Cable with MaxCap-BendBright-OM2				Orange, RAL 2009			
	Cable with MaxCap-BendBright-OM3				Aqua, RAL 6027			
	Cable with MaxCap-BendBright-OM4				Erika-Violet, RAL 4003			
	Cable with BendBright WideCap-OM5				Lime Green			
Sheath	FireRes [®] , halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised							
Sheath marking	Draka UC ^{FIBRE} I DI LSHF-FR Dca s2d2a1 ES9 <fibre count> <Fibre type><Fibre brand><Item No><Factory Number><Batch Number><Meter mark> J-V(ZN)H <fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>							

Physical Properties

Attribute	Method IEC 60974- 1-21/22	Limits						
		2	4	6	8	12	16	24
Fibre count		2	4	6	8	12	16	24
Nominal diameter [mm]	-	4.5	5	5.5	6	6.5	7	8
Nominal weight [kg/km]	-	21	26	30	35	45	50	65
Maximum installation load (a few hours) [N]	-	1000	1000	1000	1000	1200	1200	1500
Permanent tensile strength [N]	E1	280	280	280	280	340	340	400
Impact [J]	E4	20 J						
Crush (compressive strength)	E3	3000 N/ 100 mm						
Torsion	E7	5 cycles ± 1 turn						
Minimum bending radius	E11	45	50	55	60	65	70	80
Minimum bending radius under tension	E18A	90	100	110	120	130	140	160
Temperature range	F1	Operation and Installation				-20 °C to 70 °C		
		Storage				-40 °C to 70 °C		
Minimum bending radius of the 900 µm buffered fibres	G01	With standard fibres			20 mm			
		With MaxCap-BB-OMx fibres			7.5 mm			
		With BendBright-XS fibers:			7.5 mm			
Heat of combustion [MJ/km] - [kW/m]		370 0.1 0	475 0.13	575 0.16	660 0.18	900 0.25	1000 0.28	1400 0.39

D02b: UC^{FIBRE}TM Distribution Cable

Product Codes

Product Code	DoP Number*	Product Description	Fibre count	Fibre type	Fibre data sheet
60018935	1004752	UC ^{FIBRE} I DI LSHF-FR ES9 12 OM2B	12	MaxCap-BB-OM2	C34
60019145	1006055	UC ^{FIBRE} I DI LSHF-FR ES9 4 OM3B	4	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I DI LSHF-FR ES9 6 OM3B	6	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I DI LSHF-FR ES9 8 OM3B	8	MaxCap-BB-OM3	C31
60019146	1004754	UC ^{FIBRE} I DI LSHF-FR ES9 12 OM3B	12	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I DI LSHF-FR ES9 24 OM3B	24	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I DI LSHF-FR ES9 4 OM4B	4	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I DI LSHF-FR ES9 6 OM4B	6	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I DI LSHF-FR ES9 8 OM4B	8	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I DI LSHF-FR ES9 12 OM4B	12	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I DI LSHF-FR ES9 24 OM4B	24	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I DI LSHF-FR ES9 4 OM5B	4	WideCap-OM5	C39
		UC ^{FIBRE} I DI LSHF-FR ES9 6 OM5B	6	WideCap-OM5	C39
		UC ^{FIBRE} I DI LSHF-FR ES9 8 OM5B	8	WideCap-OM5	C39
		UC ^{FIBRE} I DI LSHF-FR ES9 12 OM5B	12	WideCap-OM5	C39
		UC ^{FIBRE} I DI LSHF-FR ES9 24 OM5B	24	WideCap-OM5	C39
60019147	1006056	UC ^{FIBRE} I DI LSHF-FR ES9 4 SM2D	4	OS2 - G.652.D	C03e
60019148		UC ^{FIBRE} I DI LSHF-FR ES9 6 SM2D	6	OS2 - G.652.D	C03e
60019149		UC ^{FIBRE} I DI LSHF-FR ES9 8 SM2D	8	OS2 - G.652.D	C03e
60019150	1002302	UC ^{FIBRE} I DI LSHF-FR ES9 12 SM2D	12	OS2 - G.652.D	C03e
60019151	1002303	UC ^{FIBRE} I DI LSHF-FR ES9 24 SM2D	24	OS2 - G.652.D	C03e
		UC ^{FIBRE} I DI LSHF-FR ES9 6 SM7A1	6	OS2 - BendBright G.657.A1	C17
		UC ^{FIBRE} I DI LSHF-FR ES9 12 SM7A1	12	OS2 - BendBright G.657.A1	C17
		UC ^{FIBRE} I DI LSHF-FR ES9 24 SM7A1	24	OS2 - BendBright G.657.A1	C17
		UC ^{FIBRE} I DI LSHF-FR ES9 6 SM7B	6	OS2 - BendBright [®] XS G.657.A2	C24
60018920	1004751	UC ^{FIBRE} I DI LSHF-FR ES9 12 SM7B	12	OS2 - BendBright [®] XS G.657.A2	C24
		UC ^{FIBRE} I DI LSHF-FR ES9 24 SM7B	24	OS2 - BendBright [®] XS G.657.A2	C24

*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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