

D39: UC^{FIBRE™} Distribution Cable

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



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.

This cable features high flame retardance with Cca approval.

Standards

ISO 11801-1, EN 187 000, IEC 60794-2, EN 50173-1, IEC 60794-2-20

Flame Resistance

EN 50399: Class C_{ca}s1a-d1-a1, Class D_{ca}, Class E_{ca}
LSHF-FR (LSOH-FR): IEC 60332-1-2; IEC 60332-3-24, IEC 60754-2; IEC 61034

D39: 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	1.5 mm 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 Cca-s1a-d1-a1 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]	-	5.3	5.7	6.1	6.8	7.2	7.8	8.6
Nominal weight [kg/km]	-	35						80
Maximum installation load (a few hours) [N]	-	1000	1000	1000	1000	1200	1200	1500
Short term tensile strength (some days) [N]	E1	560	560	560	560	680	680	800
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	53	57	61	68	72	78	86
Minimum bending radius under tension	E18A	106	114	122	136	144	156	172
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				

D39: UC^{FIBRE}TM Distribution Cable

Product Codes

Product Code	Product Description	Fibre count	Fibre type	Fibre data sheet
	UC ^{FIBRE} I DI LSHF-FR C ES9 4 OM3B	4	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I DI LSHF-FR C ES9 6 OM3B	6	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I DI LSHF-FR C ES9 8 OM3B	8	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I DI LSHF-FR C ES9 12 OM3B	12	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I DI LSHF-FR C ES9 24 OM3B	24	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I DI LSHF-FR C ES9 4 OM4B	4	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I DI LSHF-FR C ES9 6 OM4B	6	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I DI LSHF-FR C ES9 8 OM4B	8	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I DI LSHF-FR C ES9 12 OM4B	12	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I DI LSHF-FR C ES9 24 OM4B	24	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I DI LSHF-FR C ES9 4 OM5B	4	WideCap-OM5	C39
	UC ^{FIBRE} I DI LSHF-FR C ES9 6 OM5B	6	WideCap-OM5	C39
	UC ^{FIBRE} I DI LSHF-FR C ES9 8 OM5B	8	WideCap-OM5	C39
	UC ^{FIBRE} I DI LSHF-FR C ES9 12 OM5B	12	WideCap-OM5	C39
	UC ^{FIBRE} I DI LSHF-FR C ES9 24 OM5B	24	WideCap-OM5	C39
	UC ^{FIBRE} I DI LSHF-FR C ES9 4 SM2D	4	OS2 - G.652.D	C03e
	UC ^{FIBRE} I DI LSHF-FR C ES9 6 SM2D	6	OS2 - G.652.D	C03e
	UC ^{FIBRE} I DI LSHF-FR C ES9 8 SM2D	8	OS2 - G.652.D	C03e
	UC ^{FIBRE} I DI LSHF-FR C ES9 12 SM2D	12	OS2 - G.652.D	C03e
	UC ^{FIBRE} I DI LSHF-FR C ES9 24 SM2D	24	OS2 - G.652.D	C03e
	UC ^{FIBRE} I DI LSHF-FR C ES9 6 SM7A1	6	OS2 - BendBright G.657.A1	C17
	UC ^{FIBRE} I DI LSHF-FR C ES9 12 SM7A1	12	OS2 - BendBright G.657.A1	C17
	UC ^{FIBRE} I DI LSHF-FR C ES9 24 SM7A1	24	OS2 - BendBright G.657.A1	C17
	UC ^{FIBRE} I DI LSHF-FR C ES9 6 SM7B	6	OS2 - BendBright [®] XS G.657.A2	C24
	UC ^{FIBRE} I DI LSHF-FR C ES9 12 SM7B	12	OS2 - BendBright [®] XS G.657.A2	C24
	UC ^{FIBRE} I DI LSHF-FR C ES9 24 SM7B	24	OS2 - BendBright [®] XS G.657.A2	C24

© PRYSMIAN GROUP 2016, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.