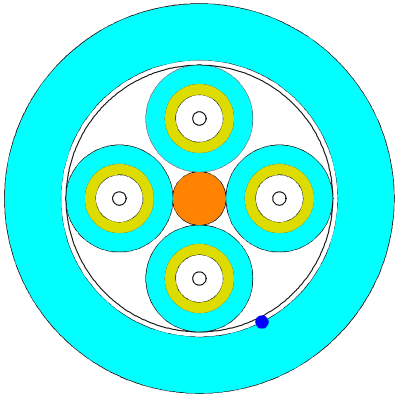


D32: UC^{FIBRE™} Break-Out Cca Cable

Indoor, break-out cable with ES9 tight buffer in $\varnothing 2.0$ mm units, with 4-24 fibres and FireRes[®] sheath, Class C_{ca}s1a-d1-a1 cable. VDE: J-V(ZN)HH



Application and Installation

This break-out or heavy duty tightly buffered cable features $\varnothing 2.0$ mm single fibre break-out units.

This cable features ES9 easy strippable tight buffer

Applications include: LAN backbones, central office interconnections, backbones in data centres, and many other.

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.

Provides high level safety against fire with its Cca flame retardance approval.

Standards

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

Flame Resistance

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

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Construction

ø2.0 mm unit	ES9 tightly buffered fiber 900 µm ± 50 µm Aramid yarn strength member LSZH sheath, in the same colour as the outer sheath, marked with unit number	
Strength member	Central FRP strength member, covered with LSZH material as appropriate	
24 units	SZ stranded around the strength member	
Wrapping	Polyester foil	
Ripcord	Polyester	
Sheath colours	Cable with SM fibres: BendBright G.657.A1, BendBright ^{XS} G.657.A2	Yellow, RAL 1018
	Cable with M6 – OM1	Grey, RAL 7037
	Cable with MaxCap-BB-OM2	Orange, RAL 2009
	Cable with MaxCap-BB-OM3	Aqua, RAL 6027
	Cable with MaxCap-BB-OM4	Erika-Violet, RAL 4003
	Cable with WideCap-OM5	Lime Green
Sheath	Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised	
Sheath marking	Draka UC ^{FIBRE} I B LSHF-FR Cca-s1a-d1-a1 ES9 2.0 <Fibre count> <Fibre type><Fibre brand><Item No><factory code><Batch Number><Meter mark> J-V(ZN)HH <Fibre family> <Mode field diameter> /125	

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]	-	7.5	8.4	9.6	12.4	12.5	14.9
Nominal weight [kg/km]	-	60	75	100	160	145	210
Maximum installation load (a few hours) [N]	-	1300	1800	2400	3500	3000	4500
Permanent tensile strength [N]	E1	450	600	800	1150	1000	1500
Impact [J]	E4	5 J					
Crush (compressive strength)	E3	1500 N/ 100 mm					
Torsion	E7	5 cycles ± 1 turn					
Minimum bending radius (permanent)	E11	75	84	96	124	125	149
Minimum bending radius under tension (installation)	-	150	150	192	248	250	298
Temperature range	F1	Operation and Installation		-20 °C to 70 °C			
		Storage		-40 °C to 70 °C			
Minimum bending radius of the 2.0 mm units	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]						3600	
						1.00	

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Product Codes

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 4 OM3B	4	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 6 OM3B	6	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 8 OM3B	8	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 12 OM3B	12	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 24 OM3B	24	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 4 OM4B	4	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 6 OM4B	6	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 8 OM4B	8	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 12 OM4B	12	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 24 OM4B	24	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 4 OM5B	4	WideCap-OM5	C39
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 6 OM5B	6	WideCap-OM5	C39
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 8 OM5B	8	WideCap-OM5	C39
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 12 OM5B	12	WideCap-OM5	C39
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 24 OM5B	24	WideCap-OM5	C39
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 4 SM7A1.P	4	OS2 - BendBright G.657.A1 - tight geometry	C38
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 6 SM7A1.P	6	OS2 - BendBright G.657.A1 - tight geometry	C38
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 8 SM7A1.P	8	OS2 - BendBright G.657.A1 - tight geometry	C38
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 12 SM7A1.P	12	OS2 - BendBright G.657.A1 - tight geometry	C38
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 24 SM7A1.P	24	OS2 - BendBright G.657.A1 - tight geometry	C38
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 4 SM7B.P	4	OS2 - BendBright ^{XS} G.657.A2 - tight geometry	C25
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 6 SM7B.P	6	OS2 - BendBright ^{XS} G.657.A2 - tight geometry	C25
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 8 SM7B.P	8	OS2 - BendBright ^{XS} G.657.A2 - tight geometry	C25
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 12 SM7B.P	12	OS2 - BendBright ^{XS} G.657.A2 - tight geometry	C25
		UC ^{FIBRE} I B LSHF-FR C ES9 2.0 24 SM7B.P	24	OS2 - BendBright ^{XS} G.657.A2 - tight geometry	C25

*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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