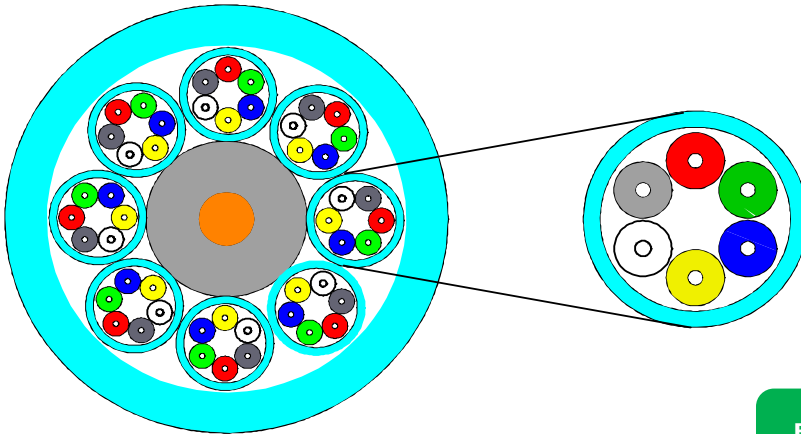


D06b: UC^{FIBRE™} Indoor Distribution B2ca Cable

Indoor, distribution (mini-breakout) B2ca-s1b-d1-a1 cable with ES9 tight buffer, 36-96 fibres, 6 fibres per unit, aramid yarns, FireRes[®] sheath. VDE: J-V(ZN)HH



Application and Installation

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

The cable features an improved tight buffer.

Typical cable applications include: LAN and WAN 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.

It ensures high safety with its high flame resistance and CPR B2ca approval.

Standards

EN 187 000, IEC 60794-2, IEC 60794-2-20, ISO 11801-1, EN 501 73-1:2002

Flame Resistance

EN 50399: Class B2_{ca} s1b-d1-a1, Class C_{ca}, Class D_{ca}, Class E_{ca}
 LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24, IEC 60754-2; IEC 61034

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Construction

Strength member	FRP rod with LSZH covering		
Fibre	36 - 96		
Fibre unit	6 tightly buffered fibres 900 µm ± 50 µm		
	1	Red	
	2	Green	
	3	Blue	
	4	Yellow	
	5	White	
	6	Grey	
	Aramid yarns. Thin LSZH sheath in the same colours as the outer sheath, marked with unit number 1, 2, 3 ... Unit diameter is 3.5 mm		
Stranding	6 – 16 fibre units in one or two layers		
Sheath colours	Cable with SM fibres	Yellow, RAL 1018	
	Cable with M6-OM1	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® LSHF-FR fire retardant, UV stabilised, EN 50290-2-27		
Print legend	Draka UC ^{FIBRE} I B LSHF-FR B2ca-s1b-d1-a1 ES9 3.5 <Fibre count> <Fibre type> <Fibre brand> <Item No> <factory code> <Batch Number> <Meter mark> J-V(ZN)HH >fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>		

Physical Properties

Attribute	IEC 60794-1- 21/22 Method	Limits							
		36	42	48	54	60	66	72	78-96
Fibre count	-	36	42	48	54	60	66	72	78-96
Nominal diameter [mm]	-	12.5	14	14.5	16	17	19	20	19
Nominal weight [kg/km]	-	165	225	230	260	300	340	375	325
Maximum installation load (a few hours)	E1	3600	3900	4200	4500	4800	5100	5400	6600
Permanent tensile strength [N]	E1	1200	1300	1400	1500	1600	1700	1800	2200
Crush (compressive strength) [N/100 mm]	E3	3000							
Impact [J]	E4	20							
Torsion	E7	5 cycles ± 1 turn							
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter							
Minimum bending radius [mm] - permanent	E11	125	140	145	160	170	190	200	190
Minimum bending radius [mm] - installation		250	280	290	320	340	380	400	380
Temperature range	F1	Installation		-40 °C to 70 °C					
		Operation *)		-40 °C to 70 °C					
		Storage		-40 °C to 70 °C					

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Product Codes

Product code	DoP Number*	Product description	Fibre count	Fibre type	Fibre data sheet
		UCFIBRE I B LSHF-FR B2 ES9 3.5 36 SM2D YL	36	OS2 - G.652.D	C03
		UCFIBRE I B LSHF-FR B2 ES9 3.5 48 SM2D YL	48	OS2 - G.652.D	C03
		UCFIBRE I B LSHF-FR B2 ES9 3.5 96 SM2D YL	96	OS2 - G.652.D	C03

*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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