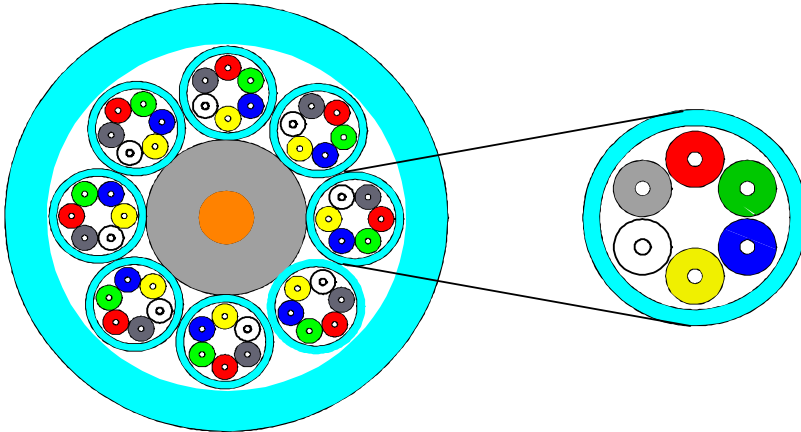


D06b: UC^{FIBRE™} Indoor distribution cable

Indoor distribution cable with ES9 tight buffer, 24 -96 fibre, 6 fibre units, 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.

Standards

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

Flame resistance

LSHF -FR (FRNC): IEC 60332-1-2; IEC 6032-3-24; IEC 60754-1; IEC 60754-2; IEC 61034

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Construction

Strength member	FRP rod with LSZH covering		
Fibre	24 - 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 app. 3.5 mm		
Stranding	5 – 16 fibre units in one or two layers		
Sheath colours	Cable with SM fibres	Yellow RAL 1021	
	Cable with MaxCap-BB-OM2 fibres	Orange RAL 2003	
	Cable with M6 fibres	Grey RAL 7037	
	Cable with MaxCap-BB-OM3 and MaxCap-BB-OM4 fibres	Aqua RAL 6027	
Sheath	FireRes® LSHF-FR fire retardant, UV stabilised, EN 50290-2-27		
Print legend	Draka UC ^{FIBRE} I B N LSHF-FR ES9 3.5 <Fibre count> <Fibre type> <Fibre brand> <Item No>05<Batch Number><Meter mark> J-V(ZN)HH >fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>		

Physical properties

Attribute	IEC 60794-1-2 Method	Limits								
		24-30	36	42	48	54	60	66	72	78-96
Fibre count	-	24-30	36	42	48	54	60	66	72	78-96
Nominal diameter [mm]	-	12	12.5	14	14.5	16	17	19	20	19
Nominal weight [kg/km]	-	150	165	225	230	260	300	340	375	325
Maximum installation load (a few hours)	E1	3300	3600	3900	4200	4500	4800	5100	5400	6600
Short term tensile strength (some days) [N]	E1	2200	2400	2600	2800	3000	3200	3400	3600	4400
Permanent tensile strength [N]	E1	1100	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]	E11	150	150	150	200	200	200	200	200	200
Temperature range	F1	Installation		-40 °C to 70 °C						
		Operation *)		-40 °C to 70 °C						
		Storage		-40 °C to 70 °C						
Water penetration	F5	No water on free end								
Heat of combustion [MJ/km]	-	2400	2850	3400	4000	4600	5300	6100	6800	5900
[kWh/m]	-	0.67	0.76	0.94	1.11	1.28	1.47	1.69	1.89	1.64

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Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Draka Material code	Fibre count	Fibre type	Fibre data sheet
60033006	UCFIBRE I B LSHF-FR ES9 3.5 6 OM3B AQ		24	MaxCap-BB-OM3	C31
60037985	UCFIBRE I B LSHF-FR ES9 3.5 12 SM2D YL		96	Single mode G.652.D	C03

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