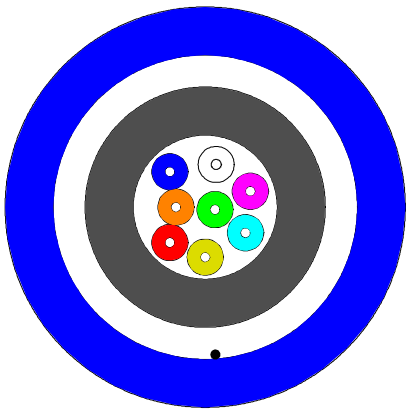


D11a: UC^{FIBRE™} distribution cable

Universal indoor / outdoor double sheathed distribution or mini break-out cable with ES9 tight buffer, 2 – 24 fibres, aramid yarns, LSZH sheath, Glass yarn reinforcement and rodent protection, FireBur® outer sheath, VDE: U-V(ZN)HBH



Application and Installation

This distribution or mini-break-out cable can be used for many outdoor applications and indoor applications. Typical cable applications includes: LAN and WAN backbones, central office interconnections, backbones in data centres, and many other.

The cable is suited for installation in ducts, on trays and directly buried. The special intended installation environment for this cable is duct systems which may flooded from time to time.

The cable features a double sheathing with the outer sheath being of UV stabilised, water and moisture resistant FireBur® material. Between the 2 sheaths there is a layer of coated and water blocked glass yarns, giving the cable a very high tensile strength and a degree of rodent protection.

The cable is thus well suited for outdoor runs.

Standards

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

Flame resistance

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

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Construction

Fibre	2 - 24 tightly buffered fibres 900 µm ± 50 µm.							
Fibre colour code	1	Red	13	Yellow w/mark every 70 mm				
	2	Green	14	White w/mark every 70 mm				
	3	Blue	15	Grey w/mark every 70 mm				
	4	Yellow	16	Turquoise w/mark every 70 mm				
	5	White	17	Orange w/mark every 70 mm				
	6	Grey	18	Pink w/mark every 70 mm				
	7	Brown	19	Yellow w/mark every 35 mm				
	8	Violet	20	White w/mark every 35 mm				
	9	Turquoise	21	Grey w/mark every 35 mm				
	10	Black	22	Turquoise w/mark every 35 mm				
	11	Orange	23	Orange w/mark every 35 mm				
	12	Pink	24	Pink w/mark every 35 mm				
Strength member	Ultra high modulus Aramid yarns							
Inner sheath	LSZH fire retardant, UV stabilised, EN 50290-2-27							
Reinforcement	Coated glass yarns for increased tensile strength and a degree of rodent protection							
Ripcord	Polyester							
Sheath	1.2 mm blue FireBur® fire retardant, UV stabilised, EN 50290-2-27							
Sheath marking	Draka UC ^{FIBRE} I/O DI D DA LSHF ES9 <Fibre count> <Fibre type><Fibre brand><Item No>05<Batch Number><Meter mark> U-V(ZN)HBH <Fibre count><Fibre family> <Mode field diameter> /125 <Transmission Class>							

Physical properties

IEC 60974-1-2

Attribute	Method	Limits							
Fibre count		2	4	6	8	12	16	24	
Nominal diameter [mm]	-	9	9.5	10	10	10.5	11	13	
Nominal weight [kg/km]	-	80	85	90	95	110	115	140	
Maximum installation load (a few hours) [N]	-	3900	3900	4200	4200	4800	4800	5400	
Short term tensile strength (some days) [N]	E1	2700	2700	2900	2900	3200	3200	3600	
Permanent tensile strength [N]	E1	1300	1300	1400	1400	1600	1600	1800	
Impact [J]	E4	15 J							
Crush (compressive strength)	E3	2000 N/ 100 mm							
Torsion	E7	5 cycles ± 1 turn							
Minimum bending radius	E11	100	105	110	110	115	120	130	
Temperature range	F1	Operation and Installation				-20 °C to 70 °C			
		Storage				-40 °C to 70 °C			
Minimum bending radius of the ES9 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]		1200	1300	1500	1600	1900	2000	2500	
		0.33	0.36	0.42	0.44	0.53	0.56	0.69	

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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
60033616	UCFIBRE I/O DI D DA LSHF ES9 2 MM61 BL		2		C02
60033615	UCFIBRE I/O DI D DA LSHF ES9 4 MM61 BL		4		C02
60036524	UCFIBRE I/O DI LSHF ES9 24 OM4B BL		24		C32
60041029	UCFIBRE I/O DI D DA LSHF ES9 4 OM3B BL		4		C31
60042476	UCFIBRE I/O DI D DA LSHF ES9 16 SM2D		16		C03
60047265	UCFIBRE I/O DI LSHF ES9 24 SM2D.P BL		24		C18

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