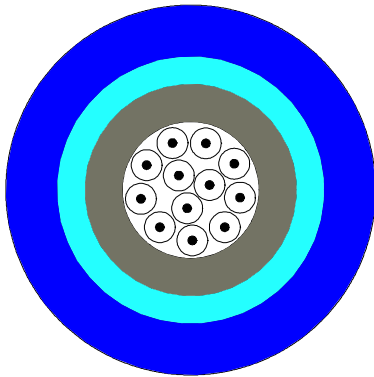


D09a: UC^{FIBRE™} Armoured Distribution Cable

Universal (indoor / outdoor), distribution cable, up to 24 ES9 tightly buffered fibres, aramid yarns, LSHF sheath, steel tape armour and FireBur[®] sheath. VDE: U-V(ZN)H(SR)H

**E_{ca}**
CPR

Application and Installation

This distribution or mini-break-out cable can be used for many indoor and outdoor applications. 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, on trays and directly buried.

The cable features a double sheathing with the outer sheath of UV stabilised, water and moisture resistant FireBur[®] material. Between the 2 sheaths there is a steel tape armouring making the cable rodent proof.

Standards

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

Flame Resistance

LSHF: IEC 60332-1-2; IEC 60754-2; IEC 61034, Class E_{ca}

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Construction

Fibre	2 - 24 tightly buffered fibres 900 µm ± 50 µm.							
Fibre colour code	1	Red	13	Red w/mark every 70 mm				
	2	Green	14	Green w/mark every 70 mm				
	3	Blue	15	Blue w/mark every 70 mm				
	4	Yellow	16	Yellow w/mark every 70 mm				
	5	White	17	White w/mark every 70 mm				
	6	Grey	18	Grey w/mark every 70 mm				
	7	Brown	19	Brown w/mark every 70 mm				
	8	Violet	20	Violet w/mark every 70 mm				
	9	Turquoise	21	Turquoise w/mark every 70 mm				
	10	Black	22	White w/mark every 35 mm				
	11	Orange	23	Orange w/mark every 70 mm				
	12	Pink	24	Pink w/mark every 70 mm				
Strength member	Ultra-high modulus aramid yarns							
Inner Sheath	Halogen free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilised							
Steel tape armouring	Corrugated steel tape 0.15 mm							
Outer sheath	1.5 mm blue FireBur® fire retardant and UV stabilised, EN 50290-2-27							
Sheath marking	Draka UC ^{FIBRE} I/O DI CST LSHF ES9 <Fibre count> <Fibre type><Fibre brand><Item No>05<Batch Number><Meter mark> U-V(ZN)H(SR)H <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>							

Physical Properties

IEC 60974-1-21/22

Attribute	Method	Limits							
		2	4	6	8	12	16	24	
Fibre count		2	4	6	8	12	16	24	
Nominal diameter [mm]	-	8.5	8.5	11.0	11.0	11.0	11.0	14	
Nominal weight [kg/km]	-	90	90	130	130	130	130	230	
Maximum installation load [N] (fibre strain ≤ 0.6%)	-	2000	2000	2000	2000	2000	2000	2000	
Permanent tensile strength [N] (fibre strain ≤ 0.25%)	E1	1000	1000	1000	1000	1000	1000	1000	
Impact [J]	E4	20 J							
Crush (compressive strength)	E3	3000 N/ 100 mm							
Torsion	E7	5 cycles ± 1 turn							
Minimum bending radius	E11	130	130	170	170	170	170	200	
Minimum bending radius under tension	E18A	170	170	220	220	220	220	260	
Temperature range	F1	Operation and Installation				-20 °C to 70 °C			
		Storage				-40 °C to 70 °C			
Minimum bending radius of the tightly buffered fibres	G01	With standard fibres: 20 mm With MaxCap-BB-OMx fibres: 7.5 mm With BendBright-XS fibres: 7.5 mm							
Heat of combustion [MJ/km] - [kW/m]		1260 0.35	1260 0.35	1950 0.54	1950 0.54	1950 0.54	2000 0.56	3307 0.92	

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Product Codes

Product code	DoP Number*	Product description	Fibre count	Fibre type	Fibre data sheet
60020752		UC ^{FIBRE} I/O DI CST LSHF ES9 16 MM61	16	OM1 62.5/125	C02
		UC ^{FIBRE} I/O DI CST LSHF ES9 4 OM3B	4	MaxCap-BB-OM3	C31
60065644	1006626	UC ^{FIBRE} I/O DI CST LSHF ES9 8 OM3B	8	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI CST LSHF ES9 12 OM3B	12	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI CST LSHF ES9 24 OM3B	24	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI CST LSHF ES9 4 SM2D	4	OS2 G.652.D	C03
60065645	1006627	UC ^{FIBRE} I/O DI CST LSHF ES9 8 SM2D	8	OS2 G.652.D	C03
		UC ^{FIBRE} I/O DI CST LSHF ES9 12 SM2D	12	OS2 G.652.D	C03
		UC ^{FIBRE} I/O DI CST LSHF ES9 24 SM2D	24	OS2 G.652.D	C03
		UC ^{FIBRE} I/O DI CST LSHF ES9 4 SM7B	4	OS2 BendBright ^{XS} - G.657.A2	C24
		UC ^{FIBRE} I/O DI CST LSHF ES9 8 SM7B	8	OS2 BendBright ^{XS} - G.657.A2	C24
		UC ^{FIBRE} I/O DI CST LSHF ES9 12 SM7B	12	OS2 BendBright ^{XS} - G.657.A2	C24
		UC ^{FIBRE} I/O DI CST LSHF ES9 24 SM7B	24	OS2 BendBright ^{XS} - G.657.A2	C24

*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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