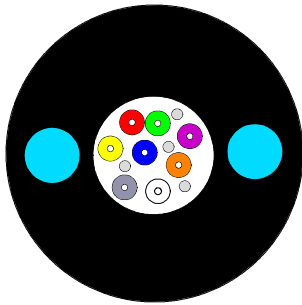


D16a: UC^{FIBRE}™ Universal Distribution Cable

Heavy duty trunk cable, up to 24 ES9 tightly buffered fibres, longitudinally water blocking and FRP rods embedded in a LSHF-FR sheath. VDE: U-VQ(ZN)H



Application and Installation

This extremely robust distribution style trunk cable is very well suited for LAN and WAN backbones, where robustness and a wide temperature range is needed.

The cable may be used for both indoor and outdoor installation.

Special features for outdoor application includes a UV stabilised sheath, a longitudinal water blocked core, and the wide temperature range.

For indoor application the cable features passing IEC 60332-24 fire test.

The cable can be installed on trays, in ducts and outside in the open

This cable features Draka's ES9 easy strippable tight buffer

Standards

EN 187 000; IEC 60794-2; IEC 60794-2-20; ISO 11801-1; EN 50173-1

Flame Resistance

LSHF-FR (LSOH-FR): IEC 60332-1-2; IEC 60332-3-24; IEC 60754-1; IEC 60754-2; IEC 61034; Class E_{ca}

Construction

Fibre	4 - 24 tightly buffered fibres 900 µm ± 50 µm.		
Water blocking	Swell able tape/tread		
Fibre colour code	1	Red	13 Red w/mark per 70 mm
	2	Green	14 Green w/mark per 70 mm
	3	Blue	15 Blue w/mark per 70 mm
	4	Yellow	16 Yellow w/mark per 70 mm
	5	White	17 White w/mark per 70 mm
	6	Grey	18 Grey w/mark per 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	2 FRP strength elements		
Sheath	Black LSHF-FR flame retardant sheathing material, UV stabilized, EN 50290-2-27		
Print legend	Draka UC ^{FIBRE} I/O DI LSHF-FR ES9 <Fibre count> <Fibre type><Fibre brand><Item No><factory code><Batch Number><Meter mark> U-VQ(ZN)H <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>		

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Physical Properties

Attribute	IEC 60794-1- 21/22 Method	Limits			
Fibre count	-	4	8	12	24
Nominal diameter [mm]	-	9.6	9.6	9.9	11.3
Nominal weight [kg/km]	-	100	100	115	130
Short term tensile strength (some days) [N]	E1	800			
Permanent tensile strength [N]	E1	500			
Crush (compressive strength) [N/100 mm]	E3	300			
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	75			
Temperature range	F1	Installation	-10 °C to 60 °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]	-	2200	2350	2400	3000
[kWh/m]	-	0.61	0.65	0.67	0.83

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Product Codes

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
		UC ^{FIBRE} I/O DI LSHF-FR ES9 4 OM3B	4	MaxCap-BB-OM3	C31
60019313		UC ^{FIBRE} I/O DI LSHF-FR ES9 8 OM3B	8	MaxCap-BB-OM3	C31
60019363		UC ^{FIBRE} I/O DI LSHF-FR ES9 12 OM3B	12	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI LSHF-FR ES9 24 OM3B	24	MaxCap-BB-OM3	C31
		UC ^{FIBRE} I/O DI LSHF-FR ES9 4 OM4B	4	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O DI LSHF-FR ES9 8 OM4B	8	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O DI LSHF-FR ES9 12 OM4B	12	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O DI LSHF-FR ES9 24 OM4B	24	MaxCap-BB-OM4	C32
		UC ^{FIBRE} I/O DI LSHF-FR ES9 4 OM5B	4	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR ES9 8 OM5B	8	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR ES9 12 OM5B	12	WideCap-OM5	C39
		UC ^{FIBRE} I/O DI LSHF-FR ES9 24 OM5B	24	WideCap-OM5	C39
60019360		UC ^{FIBRE} I/O DI LSHF-FR ES9 4 SM2D	4	OS2 - G.652.D	C03e
		UC ^{FIBRE} I/O DI LSHF-FR ES9 8 SM2D	8	OS2 - G.652.D	C03e
		UC ^{FIBRE} I/O DI LSHF-FR ES9 12 SM2D	12	OS2 - G.652.D	C03e
60019364		UC ^{FIBRE} I/O DI LSHF-FR ES9 24 SM2D	24	OS2 - G.652.D	C03e
60019562	1005640	UC ^{FIBRE} I/O DI LSHF-FR ES9 4 SM7A1	4	OS2 - BendBright G.657.A1	C17
60019563	1006611	UC ^{FIBRE} I/O DI LSHF-FR ES9 8 SM7A1	8	OS2 - BendBright G.657.A1	C17
60019564	1005540	UC ^{FIBRE} I/O DI LSHF-FR ES9 12 SM7A1	12	OS2 - BendBright G.657.A1	C17
60019565	1004411	UC ^{FIBRE} I/O DI LSHF-FR ES9 24 SM7A1	24	OS2 - BendBright G.657.A1	C17
		UC ^{FIBRE} I/O DI LSHF-FR ES9 4 SM7B	4	OS2 - BendBright ^{XS} G.657.A2	C24
60019362		UC ^{FIBRE} I/O DI LSHF-FR ES9 8 SM7B	8	OS2 - BendBright ^{XS} G.657.A2	C24
		UC ^{FIBRE} I/O DI LSHF-FR ES9 12 SM7B	12	OS2 - BendBright ^{XS} G.657.A2	C24
		UC ^{FIBRE} I/O DI LSHF-FR 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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