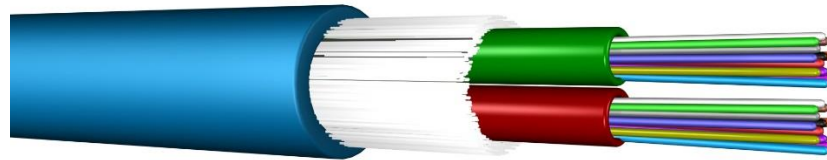
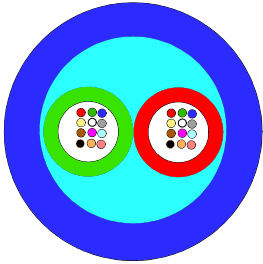


## E18: UC<sup>FIBRE™</sup> Universal Bi-Tube Cable

**3000 N, central tube, bi-tube construction with 24-48 fibres, glass elements and FireBur® sheath, VDE: U-DQ(ZN)BH**



**Eca**  
**CPR**

### Application and Installation

This cable can be used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections as well as fibre to the home drop and access connections.

With its FireBur® LSHF sheathing this cable is ideal for mixed indoor and outdoor installation.

This cable features a high tensile strength and a degree of rodent protection, effective in many cases.

It is equally suited for installation in ducts and on trays. The cable may be used for direct burial with proper sand back filling.

This cable features a bi tube design, making it easy to split the 24 fibres in two bundles of 12 fibres or 48 fibres in two bundles of 24 fibres.

### Standards

ISO 11801-1, EN 50173-1:2002, IEC 60794-1, EN 50575

### Flame Resistance

LSHF (LSOH): IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, Class E<sub>ca</sub>

## E18: UC<sup>FIBRE™</sup> Universal Bi-Tube Cable

### Construction

Loose tube	2 x ø2.8 mm gel-filled loose tubes with 12 or 24 fibres each		
Tube colour code	1	Green tube	
	2	Red tube	
Fibre colour code	1	Red	13 Red w/mark every 70mm
	2	Green	14 Green w/mark every 70mm
	3	Blue	15 Blue w/mark every 70mm
	4	Yellow	16 Yellow w/mark every 70mm
	5	White	17 White w/mark every 70mm
	6	Grey	18 Grey w/mark every 70mm
	7	Brown	19 Brown w/mark every 70mm
	8	Violet	20 Violet w/mark every 70mm
	9	Turquoise	21 Turquoise w/mark every 70mm
	10	Black	22 White w/mark every 35mm
	11	Orange	23 Orange w/mark every 70mm
	12	Pink	24 Pink w/mark every 70mm
Strength member	Water-blocked E-Glass fibre elements		
Ripcord	1		
Sheath	1.2 mm blue FireBur® sheath, UV stabilised, IEC 50290-2-27		
Sheath marking	Draka UC <sup>FIBRE</sup> I/O CT2 LSHF 3.0 kN <Fibre count> <Fibre type><Fibre brand><Item No><Factory No><Batch Number><Meter mark> U-DQ(ZN)BH 2 x <fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>		

### Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits
Nominal outer diameter	-	24 fibres: 8.0 mm
Nominal weight	-	24 fibres: 60 kg/km
Heath of combustion		1300 MJ/km 0.36 kWh/km
Maximum installation tensile strength	E1	3000 N (fibre strain ≤ 0.6%)
Permanent tensile strength	E1	1000 N (fibre strain ≤ 0.2%)
Compressive strength (crush)	E3	1500 N / 100 mm
Impact	E4	15 Nm (no attenuation change, no broken cable elements)
Torsion	E7	5 cycles ± 1 turn
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 100 mm
Min. bending radius, unloaded (permanent)	E11	R = 80 mm
Min. bending radius, loaded (installation)	-	R = 160 mm
Temperature range	F1	Storage: -40°C to +60°C (short term up to 70 °C) Installation: -15°C to +40°C Operation: -30°C to +60°C.
Water penetration	F5B	No water on free end

## E18: UC<sup>FIBRE™</sup> Universal Bi-Tube Cable

### Product Codes

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60020676	1007166	UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 OM2B	24	MaxCap-BB-OM2	C34
60020677	1004784	UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 OM3B	24	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x24 OM3B	48	MaxCap-BB-OM3	C31
60020678	1002383	UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 OM4B	24	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x24 OM4B	48	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 OM5B	24	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x24 OM5B	48	WideCap-OM5	C39
60039918	1002384	UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 SM2D	24	OS2 G.652.D	C03
		UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 SM7A1	24	OS2 BendBright G.657.A1	C17
		UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x24 SM7A1	48	OS2 BendBright G.657.A1	C17
		UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 SM7B	24	OS2 BendBright <sup>XS</sup> G.657.A2	C24
		UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x24 SM7B	48	OS2 BendBright <sup>XS</sup> G.657.A2	C24
60020681	1004075	UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 SM2D/OM3B	24	Hybrid 12 x OS2 G.652.D + 12 x MaxCap-BB-OM3	C03e/ C31
60044306	1004075	UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 SM2D/OM4B	24	Hybrid 12 x OS2 G.652.D + 12 x MaxCap-BB-OM4	C03e/ C32
60044997		UC <sup>FIBRE</sup> I/O CT2 LSHF 3kN 2x12 SM2D/OM2B	24	Hybrid 12 x OS2 G.652.D + 12 x MaxCap-BB-OM2	C03e/ C34

\*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](http://www.prysmiangroup.com/cpr)

© PRYSMIAN GROUP 2016, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.