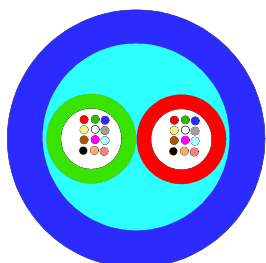


E18: UC^{FIBRE™} Universal Bi-Tube Cable

3000 N, central tube, bi-tube construction with 24 fibres, glass elements and FireBur® sheath, VDE: U-DQ(ZN)BH 2 x 12



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.

Standards

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

Flame Resistance

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

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Construction

Loose tube	2 x ø2.8 mm gel-filled loose tubes with 12 fibres each		
Tube colour code	Green tube fibre 1 – 12 Red tube fibre 13 – 24		
Fibre colour code	1	Red	7 Brown
	2	Green	8 Violet
	3	Blue	9 Turquoise
	4	Yellow	10 Black
	5	White	11 Orange
	6	Grey	12 Pink
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 ^{FIBRE} 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 12 <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

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Product Codes

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

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