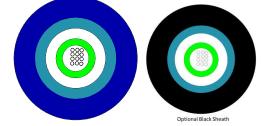
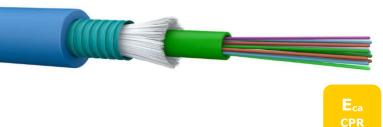




# E07a: UC<sup>FIBRE</sup> Universal Central Tube Armoured Cable

# **3000 N, Ind/Out, unitube up to 24 fibres, glass yarns, steel tape armouring and FireBur<sup>®</sup> sheath. DIN/VDE: U-D(ZN)(SR)H**





### 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<sup>®</sup> sheathing this cable is ideal for indoor/outdoor mixed installation.

with its FireBur<sup>®</sup> sheatning this cable is ideal for indoor/outdoor mixed insta

The cable, having a corrugated steel tape armouring, is rodent proof. The cable is well suited for installation in ducts and on trays, indoor as well as outdoor.

The cable is excellent for direct burial with proper sand back filling.

### **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<sub>ca</sub>

### Construction

Loose tube	ø2.8 mm gel-filled loose tube with 2 – 24 fibres						
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	6 Grey 18 Grey w/mark every 70		Grey w/mark every 70mm			
	7	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	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	E-Glass	E-Glass yarns					
Armouring	0.15 m	m corrugated steel tape					
Sheath	1.5 mm	n, Blue (Black optional) Fi	reBur <sup>®</sup> sheath, UV sta	abilised, EN 50290-2-27			
Sheath marking	Draka UC <sup>FIBRE</sup> I/O CT CST LSHF 3.0 kN <fibre count=""> <fibre type=""><fibre brand=""><item< td=""></item<></fibre></fibre></fibre>						
-	No> <fa< td=""><td>ctory Code&gt;<batch numl<="" td=""><td>ber&gt;<meter mark=""> l</meter></td><td>J-D(ZN)(SR)H <fibre count=""> <fibre family=""></fibre></fibre></td></batch></td></fa<>	ctory Code> <batch numl<="" td=""><td>ber&gt;<meter mark=""> l</meter></td><td>J-D(ZN)(SR)H <fibre count=""> <fibre family=""></fibre></fibre></td></batch>	ber> <meter mark=""> l</meter>	J-D(ZN)(SR)H <fibre count=""> <fibre family=""></fibre></fibre>			
	<mode f<="" td=""><td>ield diameter&gt; /125 <tra< td=""><td>ansmission Class&gt;</td><td></td></tra<></td></mode>	ield diameter> /125 <tra< td=""><td>ansmission Class&gt;</td><td></td></tra<>	ansmission Class>				

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# **E07a: UC<sup>FIBRE</sup> Universal Central Tube Armoured Cable**

## **Physical Properties**

IEC 60974-1-21/22

Attribute	Method	Limits		
Nominal outer diameter	-	2 - 24 fibres: 8.5 mm		
Nominal weight	-	2 - 24 fibres: 75 kg/km		
Tensile strength (dynamic)	E1	3000 N (fibre strain ≤ 0.6%)		
Tensile strength (permanent)	E1	1000 N (fibre strain $\leq$ 0.2%)		
Compressive strength (crush)	E3	2200 N / 100 mm		
Impact	E4	30 Nm		
Torsion	E7	5 cycles $\pm$ 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 = 85 mm		
Min. bending radius loaded (installation)		R = 170 mm		
Temperature range	F1	Storage and installation: -40°C to +70°C Operation: -40°C to +70°C		
Heat of combustion		2-24 fibres: 1200 MJ/km 0.33 kWh/m		

### **Product Codes**

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60042298	1004803	UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 4 OM2B	4	MaxCap-BB-OM2	C34
60047155	1002468	UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 6 OM2B	6	MaxCap-BB-OM2	C34
60026599		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 4 OM2B BK	4	MaxCap-BB-OM2	C34
60020527		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 8 OM2B BK	8	MaxCap-BB-OM2	C34
60024971		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 12 OM2B BK	12	MaxCap-BB-OM2	C34
60071393		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 24 OM2B BK	24	MaxCap-BB-OM2	C34
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 4 OM3B	4	MaxCap-BB-OM3	C31
60020317		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 6 OM3B	6	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 8 OM3B	8	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 12 OM3B	12	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 24 OM3B	24	MaxCap-BB-OM3	C31
60025024		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 4 OM3B BK	4	MaxCap-BB-OM3	C31
60020748		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 8 OM3B BK	8	MaxCap-BB-OM3	C31
60020268		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 12 OM3B BK	12	MaxCap-BB-OM3	C31
60071397		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 24 OM3B BK	24	MaxCap-BB-OM3	C31
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 4 OM4B	4	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 6 OM4B	6	MaxCap-BB-OM4	C32
60030797		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 8 OM4B	8	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 12 OM4B	12	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 24 OM4B	24	MaxCap-BB-OM4	C32
60047371		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 4 OM4B BK	4	MaxCap-BB-OM4	C32
60032040		UCFIBRE I/O CT CST LSHF 3kN 8 OM4B BK	8	MaxCap-BB-OM4	C32
60038327		UCFIBRE I/O CT CST LSHF 3kN 12 OM4B BK	12	MaxCap-BB-OM4	C32
60038334		UCFIBRE I/O CT CST LSHF 3kN 16 OM4B BK	16	MaxCap-BB-OM4	C32
60071411		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 24 OM4B BK	24	MaxCap-BB-OM4	C32
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 4 OM5B	4	WideCap-OM5	C39

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## E07a: UC<sup>FIBRE</sup> Universal Central Tube Armoured Cable

		Cubic			
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 6 OM5B	6	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 8 OM5B	8	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 12 OM5B	12	WideCap-OM5	C39
		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 24 OM5B	24	WideCap-OM5	C39
60019682		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 4 SM2D	4	OS2 G.652 D	C03e
60018755		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 6 SM2D	6	OS2 G 652 D	C03e
60033012	1002083	UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 8 SM2D	8	OS2 G 652 D	C03e
60018759	1001586	UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 12 SM2D	12	OS2 G 652 D	C03e
60071179	1007601	UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 24 SM2D	24	OS2 G 652 D	C03e
60027087		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 4 SM2D BK	4	OS2 G 652 D	C03e
60025893		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 8 SM2D BK	8	OS2 G 652 D	C03e
60020206		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 12 SM2D BK	12	OS2 G.652 D	C03e
60032318		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 16 SM2D BK	16	OS2 G 652 D	C03e
60070582		UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 24 SM2D BK	24	OS2 G 652 D	C03e
60071405	1007586	UC <sup>FIBRE</sup> I/O CT CST LSHF 3kN 24 MM61	24	OM1 62.5 μm	C02
60071409	1007646	DR I/O CT CST LSHF 3kN 24 MM61 BK	24	OM1 62.5 μm	C02

\*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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# C02: General purpose 62.5 µm fibre

# Properties of cabled OM1 fibre for use at 850 nm and at 1300 nm

### **General and application**

This fibre is a graded-index multimode fibre suitable for transmission speeds of up to 10 Gbps (33m 10GBASE-SR). It has 62.5 µm core and 125 µm cladding diameter. The fibre is designed for use at 850 and 1300 nm. This fibre is suitable for use in premises wiring application like LAN's with video, data and or voice services using LED, VCSEL and Fabry-Perot laser sources.

#### **Standards**

IEC 60793-2-10 Category A1b	ISO/IEC 11801 category OM1
EN 60793-2-10: type A1b	IEEE 802.3 - 2002 with amendment 802.3ae - 2002
TIA/EIA-492 AAAA	ANSI/TIA/EIA-568.B.3 - 2000
EN 50173-1:2007 category OM1	IBM <sup>™</sup> Fibre Optic Channel Links; ESCON <sup>™</sup>

## **Cabled Fibre Attenuation**

Attribute	Measurement method	Units	Limits
Attenuation limit according to IEC 60793-2-10, 850 nm	IEC 60793-1-40	dB/km	≤ 3.5
Attenuation limit according to IEC 60793-2-10, 1300 nm	IEC 60793-1-40	dB/km	≤ 1.5

## **Optical Specifications (Bare Fibre)**

Attribute	Measurement method	Units	Limits
Attenuation at 850 nm	IEC 60793-1-40	dB/km	≤ 2.9
Attenuation at 1300 nm	IEC 60793-1-40	dB/km	≤ 0.6
Point Discontinuity at 850 nm and 1300 nm	IEC 60793-1-40	dB	≤ 0.1

### **Bending Loss**

10  0  <  10  0  <  10  0  0  0  0  0  0  0  0  0  0  0  0	Mandrel Radius =37.5 mm	, 100 turns at 850,	/1300 nm	IEC 60793-1-40	dB	≤ 0.5
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### Bandwidth

Overfilled (OFL) modal bandwidth at 850 nm	IEC 60793-1-41	MHz • km	≥ 200
Overfilled (OFL) modal bandwidth at 1300 nm	IEC 60793-1-41	MHz • km	≥ 600

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# C02: General purpose 62.5 µm fibre

## **Geometrical properties**

Attribute	Measurement method	d Units	Limits
Core diameter	IEC 60793-1-20	μm	62.5 ± 2.5
Cladding diameter	IEC 60793-1-20	μm	$125.0 \pm 1.0$
Cladding non-circularity	IEC 60793-1-20	%	≤ 1.0
Core non-circularity	IEC 60793-1-20	%	≤ 5
Core-cladding concentricity error	IEC 60793-1-20	μm	≤ 1.5
Primary coating diameter – uncoloured	IEC 60793-1-21	μm	242 ± 7
Primary coating diameter - coloured	IEC 60793-1-21	μm	250 ± 15
Primary coating non-circularity	IEC 60793-1-21	%	≤ 6
Primary coating-cladding concentricity error	IEC 60793-1-21	μm	≤ 10

## **Mechanical properties**

Attribute	Measurement method	Units	Limits
Proof stress level	IEC 60793-1-30	GPa	≥ 0.7 (≈ 1 %)
Typical average strip force	IEC 60793-1-32	Ν	≥ 1.3 ≤ 3.0
Peak strip force	IEC 60793-1-32	Ν	≥ 1.3 ≤ 8.9

## **Group index of refraction**

Group index of refraction at 850 nm	IEC 60793-1-22	-	1.496
Group index of refraction at 1300 nm	IEC 60793-1-22	-	1.491

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