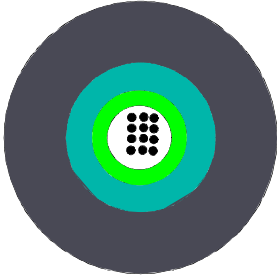


E17a: UC^{FIBRE™} Indoor Central Tube Cable

1500N, central tube cable with up to 24 fibres, glass elements and FireRes[®] sheath, VDE: J-DQ(ZN)BH



Application and Installation

This cable can be used for LAN and WAN backbones and intra building connections. This cable is specific amid at installations where there is a requirement for passing a large scale fibre test. e.g. IEC 60332-3-24. The cable features a high tensile strength and a degree of rodent protection.

This cable is suitable for installation indoor on trays and in ducts. It may also be installed outdoor in ducts, even water filled; but it is not suitable for direct burial.

Standards

EN 187 000, IEC 60794-2, IEC 60794-2-20, IEC 60794-2-21, ISO 11801 2nd edition, EN 50 173-1

Flame Resistance

LSHF-FR (LSOH-FR): IEC 60332-3-24, IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class D_{ca}, Class E_{ca}

Construction

Loose tube	ø2.8 mm gel-filled loose tube with 2 – 16 fibres; ø3.5 mm loose tube with 24 fibres		
Fibre colour code	1	Red	13 Yellow w/mark per 70 mm
	2	Green	14 White w/mark per 70 mm
	3	Blue	15 Grey w/mark per 70 mm
	4	Yellow	16 Turquoise w/mark per 70 mm
	5	White	17 Orange w/mark per 70 mm
	6	Grey	18 Pink w/mark per 70 mm
	7	Brown	19 Yellow w/mark every 35 mm
	8	Violet	20 White w/mark every 35 mm
	9	Turquoise	21 Grey w/mark every 35 mm
	10	Black	22 Turquoise w/mark every 35 mm
	11	Orange	23 Orange w/mark every 35 mm
	12	Pink	24 Pink w/mark every 35 mm
Strength member	Water-blocked E-Glass fibre elements		
Sheath	Grey FireRes [®] sheath, UV stabilised, EN 50290-2-27		
Sheath marking	Draka UC ^{FIBRE} I CT LSHF-FR 1.5 kN <Fibre count> <Fibre type><Fibre brand><Item No>05<Batch Number><Meter mark> J-DQ(ZN)BH <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>		

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Physical Properties

Attribute	IEC 60794-1-2 Method	Limits
Nominal outer diameter	-	2 - 16 fibres: 7.5 mm 18 - 24 fibres: 8.0 mm
Nominal weight	-	2 - 16 fibres: 65 kg/km 18 - 24 fibres: 70 kg/km
Maximum installation tensile strength	E1	1500 N (fibre strain less than 1/2 of proof test level)
Short term tensile strength	E1	1000 N (fibre strain less than 1/3 of proof test level)
Permanent tensile strength	E1	700 N (no attenuation change, fibre strain less than 1/4 of proof test level)
Compressive strength (crush)	E3	2000 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 200 mm
Min. Bending radius, unloaded	E11	R = 60 mm
Min. Bending radius, loaded	-	R = 100 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 +70°C.
Water penetration	F5B	No water on free end
Heath of combustion	-	2 - 16 fibres: 830 MJ/km = 0,23 kWh/m 18 - 24 fibres: 960 MJ/km

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Product Codes

Prysmian Group Product Code	Prysmian Group Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60019321	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 4 OM2B	4	MaxCap-BB-OM2	C34
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 6 OM2B	6	MaxCap-BB-OM2	C34
60011909	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 8 OM2B	8	MaxCap-BB-OM2	C34
60020134	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 12 OM2B	12	MaxCap-BB-OM2	C34
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 24 OM2B	24	MaxCap-BB-OM2	C34
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 4 OM3B	4	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 6 OM3B	6	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 8 OM3B	8	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 12 OM3B	12	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 24 OM3B	24	MaxCap-BB-OM3	C31
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 4 OM4B	4	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 6 OM4B	6	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 8 OM4B	8	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 12 OM4B	12	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 24 OM4B	24	MaxCap-BB-OM4	C32
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 4 OM4BW	4	WideCap-BB-OM4W	C39
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 6 OM4BW	6	WideCap-BB-OM4W	C39
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 8 OM4BW	8	WideCap-BB-OM4W	C39
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 12 OM4BW	12	WideCap-BB-OM4W	C39
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 24 OM4BW	24	WideCap-BB-OM4W	C39
60020369	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 4 MM61	4	OM1 62.5/125 multimode	C02
60019300	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 6 MM61	6	OM1 62.5/125 multimode	C02
60019301	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 8 MM61	8	OM1 62.5/125 multimode	C02
60019660	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 12 MM61	12	OM1 62.5/125 multimode	C02
60020272	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 16 MM61	16	OM1 62.5/125 multimode	C02
60019685	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 24 MM61	24	OM1 62.5/125 multimode	C02
60020482	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 4 SM2D	4	OS2 Singlemode G652.D	C03e
60019302	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 6 SM2D	6	OS2 Singlemode G652.D	C03e
	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 8 SM2D	8	OS2 Singlemode G652.D	C03e
60019303	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 12 SM2D	12	OS2 Singlemode G652.D	C03e
60019304	UC ^{FIBRE} I CT LSHF-FR 1.5 kN 24 SM2D	24	OS2 Singlemode G652.D	C03e

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