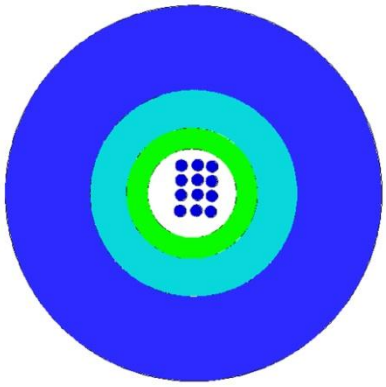
E10a: UC$^{FIBRE™}$ Universal central tube cable

1500N central tube cable w. 2 – 24 fibres, glass elements and FireBur® sheath, VDE U-DQ(ZN)BH



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.

Standards

ISO 11801 2nd edition, EN 50173-1:2002, IEC 60794-1

Flame resistance

IEC 60332-1-2, IEC 60754-1,IEC 60754-2, IEC 61034-2

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Construction

Loose tube	ø2.8 mm jelly 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	Waterblocked E-Glass fibre elements			
Sheath	1.5 mm blue FireBur® sheath, UV stabilised, IEC 50290-2-27			
Sheath marking	Draka UC^{FIBRE} I/O CT D DA LSHF 1.5 kN <Fibre count> <Fibre type><Fibre brand><Item No>05<Batch Number><Meter mark> U-DQ(ZN)BH <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class> G <Fibre count> <Mode field diameter>/125 QXAI-I/O/RG-JS/W			

Physical properties

Attribute	IEC 60794-1-2 Method	Limits
Nominal outer diameter	-	2 - 16 fibres: 7.5 mm 24 fibres: 8.0 mm
Nominal weight	-	2 - 16 fibres: 55 kg/km 24 fibres: 60 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
Impact	E4	20 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: 1100 MJ/km = 0,31 kWh/m 24 fibres: 1300 MJ/km = 0,36 kEh/m

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Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Draka Material code	Fibre count	Fibre type	Fibre data sheet
60011391	UCFIBRE I/O CT D DA LSHF 1.5kN 4 OM2B	1021806	4	MaxCap-BB-OM2	C34
60011393	UCFIBRE I/O CT D DA LSHF 1.5kN 6 OM2B	1026216	6	MaxCap-BB-OM2	C34
60011379	UCFIBRE I/O CT D DA LSHF 1.5kN 8 OM2B	1021807	8	MaxCap-BB-OM2	C34
60011395	UCFIBRE I/O CT D DA LSHF 1.5Kn 12 OM2B	1021814	12	MaxCap-BB-OM2	C34
	UCFIBRE I/O CT D DA LSHF 1.5kN 16 OM2B	1021821	16	MaxCap-BB-OM2	C34
60011381	UCFIBRE I/O CT D DA LSHF 1.5kN 24 OM2B	1021815	24	MaxCap-BB-OM2	C34
60011297	UCFIBRE I/O CT D DA LSHF 1.5kN 4 OM3B	1017416	4	MaxCap-BB-OM3	C31
60026796	UCFIBRE I/O CT D DA LSHF 1.5kN 6 OM3B		6	MaxCap-BB-OM3	C31
60011301	UCFIBRE I/O CT D DA LSHF 1.5kN 8 OM3B	1017418	8	MaxCap-BB-OM3	C31
60011342	UCFIBRE I/O CT D DA LSHF 1.5kN 12 OM3B	1017038	12	MaxCap-BB-OM3	C31
60019543	UCFIBRE I/O CT D DA LSHF 1.5kN 16 OM3B	1022522	16	MaxCap-BB-OM3	C31
60018770	UCFIBRE I/O CT D DA LSHF 1.5kN 24 OM3B	1022523	24	MaxCap-BB-OM3	C31
60019165	UCFIBRE I/O CT D DA LSHF 1.5kN 4 OM4B	1020266	4	MaxCap-BB-OM4	C32
60019179	UCFIBRE I/O CT D DA LSHF 1.5kN 6 OM4B	1020364	6	MaxCap-BB-OM4	C32
60019875	UCFIBRE I/O CT D DA LSHF 1.5kN 8 OM4B	1025928	8	MaxCap-BB-OM4	C32
60011420	UCFIBRE I/O CT D DA LSHF 1.5kN 12 OM4B	1017906	12	MaxCap-BB-OM4	C32
60018848	UCFIBRE I/O CT D DA LSHF 1.5kN 24 OM4B	1017843	24	MaxCap-BB-OM4	C32
60009196	UCFIBRE I/O CT D DA LSHF 1.5kN 4 MM61	1016938	4	OM1 62.5/125 multi mode	C02
60019294	UCFIBRE I/O CT D DA LSHF 1.5kN 6 MM61	1020695	6	OM1 62.5/125 multi mode	C02
60011345	UCFIBRE I/O CT D DA LSHF 1.5kN 8 MM61	1017460	8	OM1 62.5/125 multi mode	C02
60018732	UCFIBRE I/O CT D DA LSHF 1.5kN 12 MM61	1016942	12	OM1 62.5/125 multi mode	C02
60011346	UCFIBRE I/O CT D DA LSHF 1.5kN 24 MM61	1016945	24	OM1 62.5/125 multi mode	C02
60011347	UCFIBRE I/O CT D DA LSHF 1.5kN 4 SM2D	1016939	4	OS2 Single mode	C03e
60019357	UCFIBRE I/O CT D DA LSHF 1.5kN 6 SM2D	1021098	6	OS2 Single mode	C03e
60011295	UCFIBRE I/O CT D DA LSHF 1.5kN 8 SMD2	1017040	8	OS2 Single mode	C03e
60011299	UCFIBRE I/O CT D DA LSHF 1.5kN 12 SM2D	1016943	12	OS2 Single mode	C03e
60011308	UCFIBRE I/O CT D DA LSHF 1.5kN 24 SM2D	1016946	24	OS2 Single mode	C03e
60019486	UCFIBRE I/O CT D DA LSHF 1.5kN 4 SM7B	1022266	4	BendBright^{XS} G.657.A2	C24
60026235	UCFIBRE I/O CT D DA LSHF 1.5kN 24 SM7B	1027809	24	BendBright^{XS} G.657.A2	C24
60025483	UCFIBRE I/O CT D DA LSHF 1.5kN 24 SM2D/OM3B	1017758	24	Hybrid 12 x OS2 single mode + 12 x MaxCap-BB-OM3 multi mode	C03e / C31