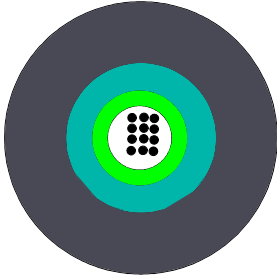


E17a: UC^{FIBRE™} Indoor Central Tube Cable

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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