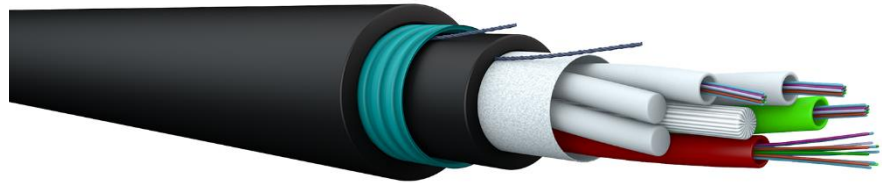
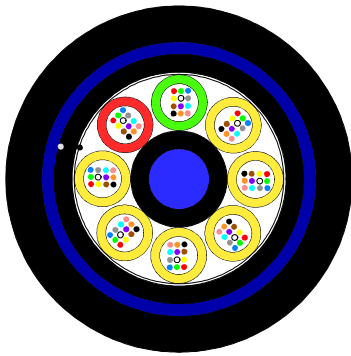


I11a: UC^{FIBRE™} Outdoor Stranded Loose Tube Armoured Cable

Stranded loose tube cable with up to 288 fibres for direct burial. Inner PE sheath, corrugated steel tape armour and outer PE sheath. VDE: A-DQ2Y(SR)2Y



Application and installation

Applications include outdoor data communication connections, Telecom trunk lines, Telecom access net connections and CATV trunk lines.

The intended installation method for this cable is by direct burial and general conditions with risk of severe rodent attacks.

Standards

EN 187 000, IEC 60794-3, IEC 60794-3-10, IEC 60794-3-12, ISO 11801-1, EN 50173-1

Construction

| | | | | |
|-------------------------|--|--------|----|-----------|
| Central strength member | ø2.5 mm FPR rod | | | |
| 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 |
| Loose tube | ø2.3 mm gel filled loose tubes, with 12 fibres each. | | | |
| Water blocking | The core is water blocked using swellable tapes and tread | | | |
| Wrapping | Polyester tape | | | |
| Rip cord | 1 rip cord | | | |
| Inner sheath | Black MDPE, IEC 60811, IEC 60708 | | | |
| Rip cord | 2 rip cords | | | |
| Armouring | 0.15 mm corrugated steel tape | | | |
| Sheath | 1.5 mm black MDPE, IEC 60811, IEC 60708 | | | |
| Sheath marking | Draka UC ^{FIBRE} O ST CST PE <Fibre count> <Fibre type><Fibre brand> <Item No><Factory No><Batch Number><Meter mark> A-DQ2Y(SR)2Y <Number of Elements> x <Fibre count per element> <Fibre family> <Mode field diameter> /125 <Transmission Class> | | | |

I11a: UC^{FIBRE}™ Outdoor Stranded Loose Tube Armoured Cable

Physical properties

| Attribute | IEC 60794-1-21/22 Method | Limits | | | | | | |
|---|--------------------------|--|-------|-------|-------|-------|--------|--------|
| | | 12 | 24 | 48 | 72 | 96 | 144 | 288 |
| Fibre count | | 12 | 24 | 48 | 72 | 96 | 144 | 288 |
| Fibre Distribution | | 1x12f | 2x12f | 4x12f | 6x12f | 8x12f | 12x12f | 12x24f |
| Nominal diameter [mm] | - | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 19.5 | 21.5 |
| Nominal weight [kg/km] | - | 195 | 195 | 195 | 195 | 195 | 345 | 380 |
| Short term tensile str. [N] | - | 1800 N (fibre strain ≤ 0.6%) | | | | | | |
| Permanent tensile str. [N] | E1 | 1200 N (fibre strain ≤ 0.2%) | | | | | | |
| Crush (compressive strength) [N/100 mm] | E3 | 3000 | | | | | | |
| Impact [J] | E4 | 20 | | | | | | |
| Repeated bending | E6 | 30 reversed bends; R = 300 mm | | | | | | |
| Torsion | E7 | 5 cycles ±1 turn | | | | | | |
| Kink | E10 | The cable do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter | | | | | | |
| Minimum bending radius [mm] | E11 | 290 | 290 | 290 | 290 | 290 | 390 | 460 |
| Temperature range | F1 | Storage: -60 °C to 60 °C Installation: -30 °C to 60 °C Operation -60 °C to 70 °C *) | | | | | | |
| Water penetration | F5B | No water on free end (core only) | | | | | | |

*) In the interval -60 °C to 70 °C there is no attenuation variation (≤0.05 dB) for a single mode fibre, when tested according to the standard mentioned.

Product codes

| Product code | Product description | Fibre count | Fibre type | Fibre data sheet |
|--------------|---|-------------|---|------------------|
| 60083044 | UC ^{FIBRE} O ST CST PE 2x8 SM2D/A1 BK | 16 | OS2 BendBright G.657.A1 | C17 |
| 60019390 | UC ^{FIBRE} O ST CST PE 2x12 SM2D/A1 BK | 24 | OS2 BendBright G.657.A1 | C17 |
| 60019480 | UC ^{FIBRE} O ST CST PE 3x12 SM2D/A1 BK | 36 | OS2 BendBright G.657.A1 | C17 |
| 60019391 | UC ^{FIBRE} O ST CST PE 4x12 SM2D/A1 BK | 48 | OS2 BendBright G.657.A1 | C17 |
| 60019528 | UC ^{FIBRE} O ST CST PE 6x12 SM2D/A1 BK | 72 | OS2 BendBright G.657.A1 | C17 |
| 60051914 | UC ^{FIBRE} O ST CST PE 10x12 SM2D/A1 BK | 120 | OS2 BendBright G.657.A1 | C17 |
| 60044507 | UC ^{FIBRE} O ST CST PE 12x12 SM2D/A1 BK | 144 | OS2 BendBright G.657.A1 | C17 |
| 60079285 | UC ^{FIBRE} O ST CST PE 12x24 SM2D/A1 BK | 288 | OS2 BendBright G.657.A1 | C17 |
| 60020633 | UC ^{FIBRE} O ST CST PE 6x4 SMDS | 24 | NZ-DSF G.656 TeraLight | C20 |
| 60019702 | UC ^{FIBRE} O ST CST PE 4x12 OM2B BK | 48 | MaxCap-BB-OM2 | C34 |
| 60082690 | UC ^{FIBRE} O ST CST PE 8 OM3B BK | 8 | MaxCap-BB-OM3 | C31 |
| 60082803 | UC ^{FIBRE} O ST CST PE 2x12 OM3B BK | 24 | MaxCap-BB-OM3 | C31 |
| 60073514 | UC ^{FIBRE} O ST CST PE 2x12 OM4B BK | 24 | MaxCap-BB-OM4 | C32 |
| 60055258 | UC ^{FIBRE} O ST CST PE 12 SM2D/A1 12 OM2B BK | 24 | Hybrid 24 OS2 BendBright G.657.A1+ 24 MaxCap-BB-OM2 | C17 + C34 |
| 60048072 | UC ^{FIBRE} O ST CST PE 2x12 SM2D/A1 2x12 OM3B BK | 48 | Hybrid 24 OS2 BendBright G.657.A1+ 24 MaxCap-BB-OM3 | C17 + C31 |

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