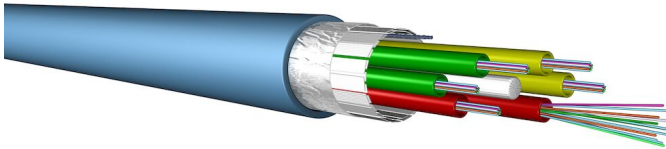


## N05a: UC<sup>FIBRE</sup> I/O ST LSHF E<sub>ca</sub> 5 KN

5000N, universal, ST, up to 288f, LWB, FireBur sheath



**Eca**  
**CPR**

### GENERAL INFO

Universal indoor/outdoor cable for LAN, MAN and WAN backbones. Directly installation in the ground. Degree of rodent protection, effective in many cases.

### CABLE FEATURES

- FO cable in stranded gel-filled loose tube design for structured cabling.
- The cable is metal-free, longitudinally water blocked, rodent-proof with a tensile strength of 5.0kN.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1-2 and Euro fire class Eca.
- Use outdoors, both in direct burial (in sand bed) and in ducts, and as a flame-retardant cable indoors.
- The fiber optic cable exceeds the requirements of EN50173-1 and ISO/IEC11801.

More information on fiber optic cable applications: [read more](#)

Latest version of this data sheet is available for download: [ProductFamily238879](#)

### CERTIFICATIONS AND DESIGN STANDARDS



**ISO/IEC 11801**

**EN 50173**

**EN 50575**

**IEC 60794-1-1**

**IEC 60794-6-10**

**Class Eca**

Generic telecom cabling for customer premises  
Information technology - Generic cabling systems  
Cables in construction works subject to reaction to fire  
Generic Specification Fibre Optic Cables  
Family specification for universal indoor-outdoor cables  
Common test methods for cables under fire conditions

### APPLICATION PROPERTIES

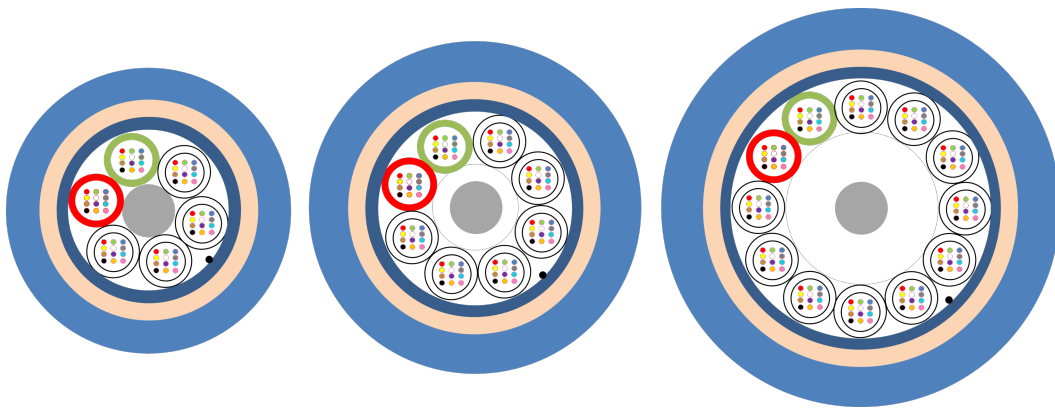
Resistant to UV  
Outdoor installation With rodent protection  
Operation temperature (min) [°C]\*  
Installation temperature (min) [°C]  
Storage temperature (min) [°C]  
Bending radius (rule)

UV stabilised  
Yes  
-40 and (max) [°C] 70  
-20 and (max) [°C] 60  
-30 and (max) [°C] 60  
During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD

*\*Temperature range recommended for cable installation, operation and storage tested according to the IEC 60794-1-22 FI.*

## CABLE CONSTRUCTION

|                                   |                                                                                                                                                                                                                                                         |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of tube                      | Stranded construction with Ø2.3 mm gel-filled loose tubes with 12 fibres each for up 144fo and Ø2.8 mm gel-filled loose tubes with 24 fibres each for over 144fo cables.                                                                                |
| Longitudinal water blocking cable | Yes                                                                                                                                                                                                                                                     |
| Rip cord                          | Yes                                                                                                                                                                                                                                                     |
| Material outer sheath             | 1.5mm, Low smoke zero halogen, FireBur®                                                                                                                                                                                                                 |
| Cable shape                       | Round                                                                                                                                                                                                                                                   |
| Cable marking example             | DRAKA UCFIBRE I/O ST LSHF 5.0 kN 'Fibre count' 'Fibre type' 'Fibre brand' 'Item No' 'Factory No' 'Batch Number' 'Meter mark' U-DQ(ZN)BH 'Number of Elements' x 'Fibre count per element' 'Fibre family' 'Mode field diameter' /125 'Transmission Class' |



## IDENTIFICATION

|                     |                                                |                                |
|---------------------|------------------------------------------------|--------------------------------|
| Fiber color 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 Grey                                         | 18 Grey w/mark every 70mm      |
|                     | 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 Black                                       | 22 White w/mark every 35mm     |
|                     | 11 Orange                                      | 23 Orange w/mark every 70mm    |
|                     | 12 Rose                                        | 24 Rose w/mark every 70mm      |
| Colour outer sheath | Blue RAL 5015 (black colour optional RAL 9005) |                                |

## MECHANICAL PROPERTIES

|                                           |                    |                                                                                                                |
|-------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------|
| Crush                                     | IEC 60794-1-21 E3  | 3,000 N/10cm                                                                                                   |
| Max. tensile strength during installation | IEC 60794-1-21 E1  | 5,000 N                                                                                                        |
| Permanent tensile strength                | IEC 60794-1-21 E1  | 1,800 N                                                                                                        |
| Impact test                               | IEC 60794-1-21 E4  | 20 N·m                                                                                                         |
| Torsion test                              | IEC 60794-1-21 E7  | 5 cycles ±1turn                                                                                                |
| Kink                                      | IEC 60794-1-21 E10 | The cables do not form a kink when a loop is drawn together to a diameter 20 times the cable nominal diameter. |

## FIRE PROPERTIES

|                                                |                       |
|------------------------------------------------|-----------------------|
| Flame retardant                                | acc. IEC/EN 60332-1-2 |
| Halogen free                                   | acc. IEC/EN 60754-2   |
| The reaction to fire according to the EN 50575 | Eca                   |

## CABLE DETAILS

| Number of fibres | Number of fibres per tube | Nominal outer diameter [mm] | Min. bending radius, fixed [mm] | Min. permitted bending radius, during cable laying [mm] | Cable weight [kg/km] | Fire load [MJ/km] |
|------------------|---------------------------|-----------------------------|---------------------------------|---------------------------------------------------------|----------------------|-------------------|
| 12               | 12                        | 11.2                        | 112                             | 224                                                     | 103                  | 2,766             |
| 24               | 12                        | 11.2                        | 112                             | 224                                                     | 104                  | 2,752             |
| 48               | 12                        | 11.2                        | 112                             | 224                                                     | 107                  | 2,725             |
| 72               | 12                        | 11.2                        | 112                             | 224                                                     | 120                  | 2,697             |
| 96               | 12                        | 12.8                        | 128                             | 256                                                     | 140                  | 3,299             |
| 144              | 12                        | 15.6                        | 156                             | 312                                                     | 200                  | 4,239             |
| 192              | 12                        | 15.5                        | 155                             | 310                                                     | 188.2                | 4,442             |
| 192              | 24                        | 15.5                        | 155                             | 310                                                     | 188.2                | 4,442             |
| 288              | 24                        | 18.5                        | 185                             | 370                                                     | 277                  | 5,980             |

## ORDERING DETAILS

| Product name                             | Number of fibres | Category (fibre) | Fibre datasheet | Colour outer sheath | DOP number | SAP code |
|------------------------------------------|------------------|------------------|-----------------|---------------------|------------|----------|
| UCFIBRE I/O ST LSHF 5.0kN 1x12 SM7A1     | 12               | OS2              | C53             | Blue                | 1004794    | 60029315 |
| UCFIBRE I/O ST LSHF 5.0kN 2x12 SM7A1     | 24               | OS2              | C53             | Blue                | 1001587    | 60018836 |
| UCFIBRE I/O ST LSHF 5.0kN 4x12 SM7A1     | 48               | OS2              | C53             | Blue                | 1001588    | 60018839 |
| UCFIBRE I/O ST LSHF 5.0kN 6x12 SM7A1     | 72               | OS2              | C53             | Blue                | 1001583    | 60011426 |
| UCFIBRE I/O ST LSHF 5.0kN 8x12 SM7A1     | 96               | OS2              | C53             | Blue                | 1002080    | 60019688 |
| UCFIBRE I/O ST LSHF 5.0kN 144 SM7A1      | 144              | OS2              | C53             | Blue                | 1002504    | 60019469 |
| UCFIBRE I/O ST LSHF 5kN 16x12 SM7A1 BL   | 192              | OS2              | C53             | Blue                | 1018949    | 60112004 |
| UCFIBRE I/O ST LSHF 5.0kN 288 SM7A1 BL   | 288              | OS2              | C53             | Blue                | 1010191    | 60082459 |
| UCFIBRE I/O ST LSHF 5kN 12 SM7A1 12 OM2B | 12               | OS2+OM2          | C34;C53         | Blue                | 1006026    | 60020615 |
| UCFIBRE I/O ST LSHF 5kN 12 SM7A1 12 OM3B | 12               | OS2+OM3          | C31;C53         | Blue                | 1004761    | 60019405 |
| UCFIBRE I/O ST LSHF 5kN 24 SM7A1 24 OM3B | 24               | OS2+OM3          | C31;C53         | Blue                | 1006946    | 60026598 |
| UCFIBRE I/O ST LSHF 5kN 24 SM7A1 24 OM4B | 24               | OS2+OM4          | C32;C53         | Blue                | 1004792    | 60026887 |
| UCFIBRE I/O ST LSHF 5kN 48 SM7A1 48 OM4B | 48               | OS2+OM4          | C32;C53         | Blue                | 1006213    | 60064937 |
| UCFIBRE I/O ST LSHF 5kN 24 SM7A1 48 OM4B | 72               | OS2+OM4          | C32;C53         | Blue                | 1008908    | 60077438 |
| UCFIBRE I/O ST D DA LSHF 5.0kN 48 MM61   | 48               | OM1              | C02             | Blue                | 1002506    | 60020048 |
| UCFIBRE I/O ST LSHF 5.0kN 2x12 OM3B      | 24               | OM3              | C31             | Blue                | 1004739    | 60018837 |
| UCFIBRE I/O ST LSHF 5.0kN 4x12 OM3B      | 48               | OM3              | C31             | Blue                | 1004736    | 60011424 |
| UCFIBRE I/O ST LSHF 5.0kN 6x12 OM3B BL   | 72               | OM3              | C31             | Blue                | 1007782    | 60019596 |
| UCFIBRE I/O ST LSHF 5.0kN 8x12 OM3B      | 96               | OM3              | C31             | Blue                | 1002501    | 60018840 |
| UCFIBRE I/O ST D DA LSHF 5.0kN 144 OM3B  | 144              | OM3              | C31             | Blue                | 1004742    | 60018855 |
| UCFIBRE I/O ST LSHF 5.0kN 192 OM3B BL    | 192              | OM3              | C31             | Blue                | 1004855    | 60061246 |

## ORDERING DETAILS

| Product name                        | Number of fibres | Category (fibre) | Fibre datasheet | Colour outer sheath | DOP number | SAP code |
|-------------------------------------|------------------|------------------|-----------------|---------------------|------------|----------|
| UCFIBRE I/O ST LSHF 5.0kN 2x12 OM4B | 24               | OM4              | C32             | Blue                | 1002082    | 60020485 |
| UCFIBRE I/O ST LSHF 5.0kN 4x12 OM4B | 48               | OM4              | C32             | Blue                | 1004782    | 60020328 |
| UCFIBRE I/O ST LSHF 5.0kN 6x12 OM4B | 72               | OM4              | C32             | Blue                | 1005541    | 60024963 |
| UCFIBRE I/O ST LSHF 5.0kN 4x12 OM5B | 48               | OM5              | C39             | Blue                | 1002544    | 60055102 |

*\*DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: [DoP](#)*

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