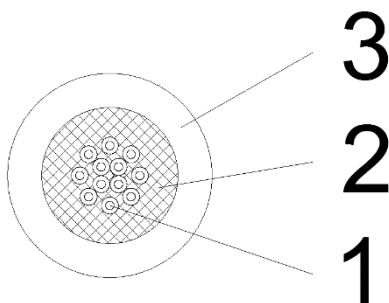


## MICRODUCT BLOWN FIBRE UNIT NBFU



|                   |                 |           |
|-------------------|-----------------|-----------|
| 1. Optical fibres | 2. Buffer layer | 3. Sheath |
|-------------------|-----------------|-----------|

|                     |                                                                       |                                                                                                                                        |
|---------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Application         | Optical fibre cable for microduct installation by blowing or pushing. |                                                                                                                                        |
| Construction        | Optical fibres                                                        | Coloured single-mode fibres according to the ITU-T G.657.A1.                                                                           |
|                     | Buffer layer                                                          | UV cured polymer.                                                                                                                      |
|                     | Outer sheath                                                          | UV resistant black polyethylene compound (HDPE). Nominal thickness is 0,2 mm.                                                          |
|                     | Marking                                                               | Marking printed on the sheath at one meter interval:<br>Nestor Cables - Cable type – lot number - year of manufacture - length marking |
| Standard references | Cable properties                                                      | IEC 60794-5                                                                                                                            |
|                     | Test methods                                                          | IEC 60794-1-2x                                                                                                                         |

| Maximum cabled fibre attenuation |      |      |      |      |       |
|----------------------------------|------|------|------|------|-------|
| Wavelength                       | 1310 | 1383 | 1550 | 1625 | nm    |
| Attenuation                      | 0,36 | 0,36 | 0,22 | 0,24 | dB/km |

| Nominal dimensions |          |               |                |                             |        |
|--------------------|----------|---------------|----------------|-----------------------------|--------|
| Fibres             |          | Diameter [mm] | Weight [kg/km] | Minimum bending radius [mm] |        |
| Count              | Grouping | Cable         | Cable          | Dynamic                     | Static |
| 2                  | 1×2      | 1,2           | 1,2            | 50                          | 25     |
| 4                  | 1×4      | 1,2           | 1,2            | 50                          | 25     |
| 12                 | 1×12     | 1,5           | 1,9            | 50                          | 25     |

| Colour coding          |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Number of fibres       | Colour of the fibres                                                                 |
| 2                      | blue, orange                                                                         |
| 4                      | blue, orange, green, brown                                                           |
| 12                     | blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise |
| Colour coding standard | ANSI/EIA/TIA 598-C                                                                   |

| Preliminary cable characteristics |                                                                                    |                             |
|-----------------------------------|------------------------------------------------------------------------------------|-----------------------------|
| Max. tension                      | - Fibre elongation $\leq 0,33\%$ , change in attenuation after test $\leq 0,05$ dB | 2 and 4F: 10 N<br>12F: 30 N |
| Crush strength                    | - With 100 mm plate, no change in attenuation ( $\leq 0,05$ dB) during test        | 250 N                       |
|                                   | - no change in attenuation after test                                              | 500 N                       |
| Impact                            | - Impact head diameter 50 mm, radius 300 mm                                        | 0,5 J, one impact           |
| Torsion                           | - Number of turns                                                                  | $\pm 1$ , (length 1000 mm)  |
| Temperature range                 | - Operation                                                                        | -40 to +60 °C               |
|                                   | - Storage, transport                                                               | -40 to +70 °C               |
|                                   | - Installation                                                                     | -15 to +40 °C               |
| Water penetration                 |                                                                                    | < 3 m, 24 h                 |

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