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## Паспорт изделия

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### Indoor Fiber Optics Cable with Corrugated Steel Tape Armor, NBR (nitrile butadiene rubber), Black

**Product Code:** [LAN-OFC-SInn-yy-NBR](#)

Indoor Fiber Optics Cable with Corrugated Steel Tape Armor, NBR (nitrile butadiene rubber), Black

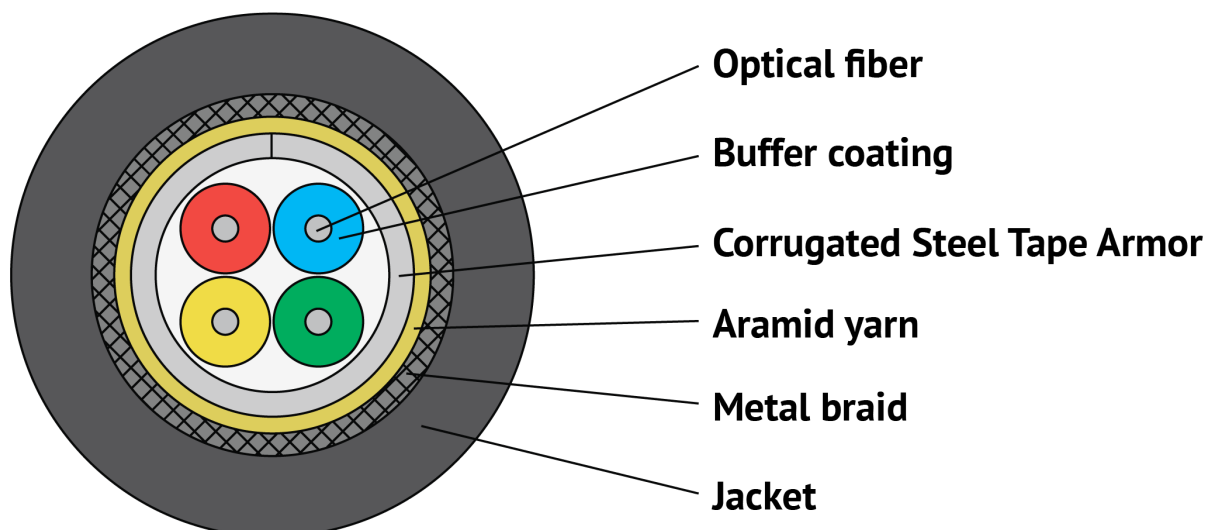


### Description

**Application:**

Used as a distribution cable of small diameter (from 3.5 to 6 mm) for cabling inside buildings. The cable NBR (nitrile butadiene rubber) jacket allows for use in aggressive environments (exposure to oil, acid, gasoline, etc.).

**Design:**



The cable contains a bundle of optical fibers in a tight buffer coating of 600  $\mu\text{m}$  which is covered with corrugated steel tape armor and a layer of aramid yarn and a metal braid. The black cable jacket is made of NBR, which provides high flexibility, strength, and resistance to heat aging. The maximum possible count of optical fibers in the cable is 12.

#### Color identification of tight buffer optical fibers:

| №  | Fibers 1-12 |  |
|----|-------------|--|
|    |             |  |
| 1  | Blue        |  |
| 2  | Orange      |  |
| 3  | Green       |  |
| 4  | Brown       |  |
| 5  | Grey        |  |
| 6  | White       |  |
| 7  | Red         |  |
| 8  | Black       |  |
| 9  | Yellow      |  |
| 10 | Violet      |  |
| 11 | Pink        |  |
| 12 | Aqua        |  |

#### Weight and dimensions:

| Count of fibers in the cable | Cable diameter, mm | Cable weight, kg/km | Corrugated tape armor dimensions, mm |
|------------------------------|--------------------|---------------------|--------------------------------------|
| 2                            | $3,5 \pm 0,2$      | 56,5                | $1,3 \times 1,8 \pm 0,1$             |
| 4                            | $5,0 \pm 0,2$      | 82                  | $2,2 \times 2,8 \pm 0,1$             |
| 8                            | $5,4 \pm 0,2$      | 90                  | $2,6 \times 3,2 \pm 0,1$             |
| 12                           | $6,0 \pm 0,2$      | 98                  | $3,0 \times 3,8 \pm 0,1$             |

#### Operating conditions:

|                          |                                                |
|--------------------------|------------------------------------------------|
| Operating Temperature    | $-20^{\circ}\text{C} \div +70^{\circ}\text{C}$ |
| Installation Temperature | $-20^{\circ}\text{C} \div +60^{\circ}\text{C}$ |
| Storage Temperature      | $-20^{\circ}\text{C} \div +70^{\circ}\text{C}$ |

|                                                  |                           |                                                                                                             |                    |
|--------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|
| Minimum Bend Radius                              |                           | Dynamic                                                                                                     | Static             |
|                                                  |                           | 20 cable diameters                                                                                          | 10 cable diameters |
| Lifetime                                         |                           | 25 years                                                                                                    |                    |
| Physical characteristics:                        |                           |                                                                                                             |                    |
| No                                               | Characteristic            |                                                                                                             | Value              |
| 1                                                | Maximum pulling tension   | Short term impact                                                                                           | 1000 N             |
|                                                  |                           | Long term impact                                                                                            | 600 N              |
| 2                                                | Maximum crushing strength | Short term impact                                                                                           | 3000 (N/100mm)     |
|                                                  |                           | Long term impact                                                                                            | 2000 (N/100mm)     |
| Product code                                     |                           | Description                                                                                                 |                    |
| LAN-OFC-SInn-yy-NBR                              |                           | FO cable with corrugated steel tape armor, NBR, indoor,<br>nn – fiber count, SM, OS2/OM1/OM2/OM3/OM4, black |                    |
| nn - fiber count                                 |                           |                                                                                                             |                    |
| yy - fiber type (SU, S2, S5, S7, M1, M2, M3, M4) |                           |                                                                                                             |                    |

**Applicable optical fibers:**

| Identifier | Description                                                                                                                                   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| SU         | Single-mode fiber with extended operating wavelength and reduced attenuation and low bending loss (ITU G.652D+G.657.A1 recommendation)        |
| S2         | Single-mode fiber with an extended bandwidth of operating wavelengths (ITU-T G.652D recommendation)                                           |
| S5         | Single-mode positive non-zero dispersion shifted fiber (ITU-T G.655 recommendation)                                                           |
| S7         | Single-mode with low bending loss (ITU-T G.657 recommendation)                                                                                |
| M1         | Multi-mode with core to cladding ratio 62,5/125 µm (IEC 60793-2-10 A1b type recommendation)                                                   |
| M2         | Multi-mode with core to cladding ratio 50/125 µm (ITU-T G.651 recommendation and IEC 60793-2-10 type A1a.1 requirements)                      |
| M3         | Multi-mode with low bending loss and core to cladding ratio 50/125 µm (ITU-T G.651 recommendation and IEC 60793-2-10 A1a.2 type requirements) |
| M4         | Multi-mode with low bending loss and core to cladding ratio 50/125 µm (ITU-T G.651 recommendation and IEC 60793-2-10 A1a.3 type requirements) |

## Model range

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| LAN-OFC-SI2-S2-NBR | FO cable with corrugated steel tape armor, NBR, indoor, 2 fibers, SM, OS2, black |
| LAN-OFC-SI2-M2-NBR | FO cable with corrugated steel tape armor, NBR, indoor, 2 fibers, MM, OM2, black |
|                    |                                                                                  |

|                     |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------|
| LAN-OFC-SI2-M3-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 2 fibers, MM, OM3, black  |
| LAN-OFC-SI2-M4-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 2 fibers, MM, OM4, black  |
| LAN-OFC-SI4-S2-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 4 fibers, SM, OS2, black  |
| LAN-OFC-SI4-M2-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 4 fibers, MM, OM2, black  |
| LAN-OFC-SI4-M3-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 4 fibers, MM, OM3, black  |
| LAN-OFC-SI4-M4-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 4 fibers, MM, OM4, black  |
| LAN-OFC-SI8-S2-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 8 fibers, SM, OS2, black  |
| LAN-OFC-SI8-M2-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 8 fibers, MM, OM2, black  |
| LAN-OFC-SI8-M3-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 8 fibers, MM, OM3, black  |
| LAN-OFC-SI8-M4-NBR  | FO cable with corrugated steel tape armor, NBR, indoor, 8 fibers, MM, OM4, black  |
| LAN-OFC-SI12-S2-NBR | FO cable with corrugated steel tape armor, NBR, indoor, 12 fibers, SM, OS2, black |
| LAN-OFC-SI12-M2-NBR | FO cable with corrugated steel tape armor, NBR, indoor, 12 fibers, MM, OM2, black |
| LAN-OFC-SI12-M3-NBR | FO cable with corrugated steel tape armor, NBR, indoor, 12 fibers, MM, OM3, black |
| LAN-OFC-SI12-M4-NBR | FO cable with corrugated steel tape armor, NBR, indoor, 12 fibers, MM, OM4, black |

Product descriptions are listed according to the available information at the time of publication. Product specifications can be changed without advanced notification. More detailed and exact information can be obtained from the official partners and distributors of LANMASTER.