

# LANmark-OF Tight Buffer Universal Dca

LANmark-OF Tight Buffer Universal 12x Singlemode 9/125 OS2 LSZH  
Dca s1d0a1 Yellow

Nexans Ref.: N164.TBUN12Y

- Tight Buffer Universal optical fibre cable
- Indoor cable and outdoor installation in a duct
- Fully waterproof and rodent retardant
- Designed for direct termination and splicing
- Up to 24 fibres and available in SM, OM3 and OM4

## DESCRIPTION

### Description and Application

The LANmark-OF Tight Buffer Universal cable is a fibre cable that can be used indoor and outdoor in a duct.

It complies with the indoor fire requirements and can be installed indoor both vertically and horizontally.

The LANmark-OF Tight Buffer Universal can also be used for outdoor installation in a duct: the water tight glass yarns make the cables fully waterproof and rodent retardant.

The LANmark-OF Tight Buffer Universal cable has 900 um buffered fibres. This second coating till 900 um provides additional protection of the fibres and facilitates the handling when terminating the fibres in a patch panel. The easy strip tight buffer design allows stripping the fibre over 10 cm in one action.

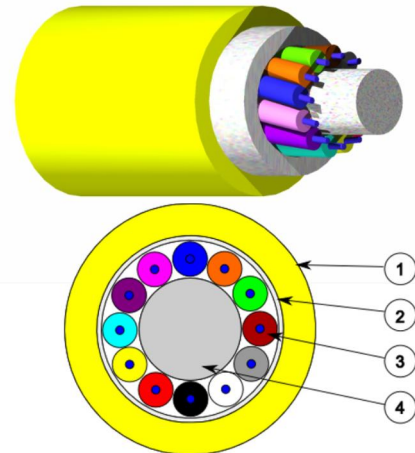
The LANmark-OF Tight Buffer Universal is most suitable for direct termination by either anaerobic or hot melt connectors. The tight buffered fibres can also be terminated with splicing of pigtailed.

Tight buffer cables are available in Aqua for OM3 and OM4 and Yellow for singlemode. High exposure to UV radiation and sunlight could lead to fading of the Aqua and Yellow jacket, but the mechanical integrity of the cable jacket will be maintained.

### Construction

Legend accompanying the cross section drawing:

1. LSZH outer sheath with UV resistant additive
2. Watertight glass yarns
3. Optical fibres (900 um)
4. Central strength element



**LANmark-OF**

## DECLARATION OF PERFORMANCE

Dca-s1,d0,a1

## STANDARDS

International ISO/IEC 11801



Mechanical resistance to impacts  
10 impacts of 3 N.m



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3



Gases corrosivity  
IEC 60754-1; IEC 60754-2



Static bending rad.  
70 mm



Min. dynamic operating bending rad.  
100.0 mm



Ambient installation T°C range  
0 ... 40 °C



Operating temp.  
-40 ... 70 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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## Characteristics

- Designed for direct termination and splicing
- Dielectric design
- Indoor cable for horizontal and vertical installations
- Fire performance compliant with IEC 60332-1, IEC 60332-3, NFC 32070 C2, and NFC 32070 C1
- Outdoor cable for installation in a duct
- Fully waterproof
- Rodent retardant
- UV resistant
- Available in SM, OM3 and OM4
- Available in 2-24 fibres

## CHARACTERISTICS

### Construction characteristics

Fiber optic type SM (G657.A1)

### Dimensional characteristics

Number of optical fibres 12

Nominal outer diameter 6.5 mm

Approximate weight 47 kg/km

### Mechanical characteristics

Maximum pulling force (IEC 60794-1-2-E1) 1000 N

Maximum operating pulling force 300 N

Crush resistance (IEC 60794-1-E3) 100 N/cm

Mechanical resistance to impacts 10 impacts of 3 N.m

### Usage characteristics

Flame retardant IEC 60332-1

Fire retardant IEC 60332-3

Gases corrosivity IEC 60754-1; IEC 60754-2

Minimum static operating bending radius 70 mm

Minimum dynamic operating bending radius 100.0 mm

Ambient installation temperature, range 0 ... 40 °C

Operating temperature, range -40 ... 70 °C

Storage temperature, range -40 ... 70 °C



Mechanical resistance to impacts  
10 impacts of 3 N.m



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3



Gases corrosivity  
IEC 60754-1; IEC 60754-2



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