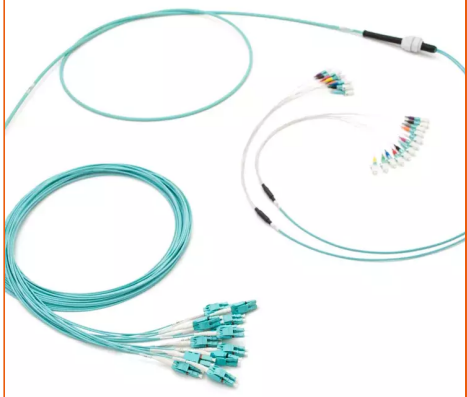
LANmark-OF ENSPACE Patching Assemblies Cca

LANMARK-OF ENSPACE PATCHING ASSEMBLY OM5 X24F DLC(2MM)-LC(900MM) FAN OUT A 1M XXXM LSZH LIME GREEN



Aginode Ref: N159.S024ULAxxx-LC

- Factory terminated LC fibre assembly
- ENSPACE Pre-Term for patching on switches side A and installation in patch panel side B
- Fibre count: 24F
- Fibre type: OM5
- Small cable diameter reduces required data centre space

Patching assemblies allow to represent switches with patch panels. On one side there is a patch cord fan-out design to allow patching on switches. On the other side the assembly is optimized for installation inside the patch panel.

STANDARDS

ISO/IEC 11801

Pre-Term for data centres, buildings and campus based on Micro-Bundle Universal

The cable has a small diameter and bend raduis to meet data centre requirements.

The cable is watertight and rodent retardant due to the glass yarns. It can be used in buldings and between buildings.

Fire performance

The cables have been tested for fire performance according to the new Construction Product Regulation: EN50575:2014 +A1:2016.

According to this standard the cables have a very high fire performance with minimal fire load and spread, smoke density, droplets and acidity: Ccas1,d0,a1.

The Declaration Of Performance for these cables can be found under fibre cables and the corresponding cable for fibre count and fibre type in the section “Micro-Bundle Universal Cca”.

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

In addition the cables meet the requirements for flame non-propagation (IEC 60332-1) and fire non-propagation (IEC 60332-3).

Pre-Term characteristics

On the side of the active equipment 2 fibres are inside a round 2mm patch cord and are terminated with an uniboot connector. The length from the fan-out point to the uniboot connectors is typical 1m for all uniboot connectors, but can be customized to 1,5m or 2m length.

The 900 µm side is optimised for installation inside the LANmark-OF ENSPACE patch panel. This side has a dual fan-out design.

The first fan-out point is between the cable and the legs of the fan-out. Each leg of the fan-out contains 1 Micro-Bundle with 12 fibres inside. This fan-out has been reinforced with aramid yarns.

The second fan-out distributes the tube into 12 buffered fibres. The 900 µm tubes are transparent and the fibres are identified with colored boots in compliance with the TIA/EIA-standard.

The second fan-out together with the 12 buffered fibres and connectors are optimized for installation and fixing into the ENSPACE adaptor modules.

The Tight Buffered fibres of the Pre-Term are easy to arrange inside an ENSPACE module since they are at the same time flexible and robust enough to handle.

The fan-out is protected with a bubble foam and a black net for protection during transport and installation.

The 900 µm side of the Pre-Term has a PG13 cable gland that can be fixed in the LANmark-OF patch panels.

On the 900µ side a pulling eye and a black protecting net is installed. The maximum pulling force on the pulling eye is 450N.

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Insertion loss for the connectors is less then 0,25 dB measured according to standard IEC 61300-3-4. The minimum return loss is measured according to standard IEC 61300-3-6. For a multimode LC connection the return loss is 30 dB, for a singlemode connection it is 45 dB and for a LC/APC connection it is 55 dB.

“xxx” in the N-number is the length between the fan-out points of both sides.

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Characteristics

Construction characteristics	
Fiber optic type	OM5 50/125 Wideband
Dimensional characteristics	
Number of optical fibres	24
Nominal outer diameter (mm)	5.9 mm
Approximate net weight	35 kg/km
Mechanical characteristics	
Mechanical resistance to impacts	10 impacts of 1 N.m
Crush resistance (IEC 60794-1-E3)	100 N/cm
Transmission characteristics	
Insertion Loss, maximum, dB	0.25 dB
Return Loss, Minimum, dB	30 dB
Usage characteristics	
Operating temperature, range	-10...60 °C
Fire retardant	IEC 60332-3
Minimum dynamic operating bending radius	120.0 mm
Minimum static operating bending radius	90 mm
Flame retardant	IEC 60332-1
Storage temperature, range	-20...60 °C
Mechanical durability/matings	1000
Ambient installation temperature, range	0...40 °C

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