LANmark-OF ENSPACE Patch Cord Duplex LC

LANMARK-OF ENSPACE PATCH CORD DLC-DLC OM4 LSZH XM VIOLET

Aginode Ref: N122.7UUVx

- Optical fibre ENSPACE patch cords
- LANmark-OF OM4 performance
- For use in cabinets and workplaces
- Bend radius reduced to 10 mm
- GIGAliteFLEX bend insensitive fibre
- Round patch cord with uniboot design
- Reverse polarity uniboot connector



STANDARDS

ISO/IEC 11801

Optimised for data centres environments

LANmark-OF ENSPACE patch cords have a very small bend radius of 10 mm due to the use GIGAliteFLEX bend insensitive fibre.

The small bend radius of the patch cord is beneficial in high density patching areas where a lot of bends are common. There is a high risk that the larger bend radius (40 mm) of traditional patch cords is not maintained resulting in high attenuation and loss of transmission.

The round design of the ENSPACE patch cord results in a small bend radius in any direction. Traditional patch cords based on a zipcord design have a bend radius that is dependent on the orientation.

With the round design and the small diameter (2mm) of the patch cable the area required for the patch cord is reduced by 50 % resulting in space savings, reduced disturbance of the airflow for cooling and easier patch cords management in high density racks.

For the support of the advanced high speed Ethernet protocols with stringent power budgets the ENSPACE patch cord features a low loss performance of 0.25 dB. This increases the headroom in the channel and reduces the risk of down time.

Characteristics

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.

- Patch cord cable is according to IEC 60794-2-50
- Maximum insertion loss according to IEC 61300-3-4: 0.25 dB
- Typical insertion loss: 0.125 dB
- A label is added close to the uniboot connector for traceability of the measurement results

Fibre type

The LANmark-OF OM4 patch cords have LANmark-OF OM4 GIGAliteFLEX fibre inside. This bend insensitive multimode fibre has a small bend radius and is compliant to IEC 60793-2-10, fibre model A1a.3b.

Guarantees and installation

Aginode LANmark-OF optical fibre patch cords have been designed for indoor applications in support of high speed protocols. Details on the supported distances can be found in the LANmark-OF warranty modules.

Typical installation environments are:

- Cabinets to connect patch panels to active equipment.
- Cross connects in data centres.

Design

Aginode LANmark-OF patch cords are delivered according to the "Cross-Over" wiring principle to improve field installation (A1-B2, B1-A2). This complies to the requirements of IEC 11801 and EN 50174-1:2009.

The polarity of the ENSPACE patch cord can be changed by opening the uniboot connector on one side and change the position of the 2 LC connectors. A black and yellow plastic square identify the fibre inside the patch cord. The patch cords are delivered with the black square on the left on side A and on the right on side B. This is required for cross-over or optical crossed patch cords. By changing the position of the black square on side A from the left to the right the patch cord becomes an optical straight patch cord. This straight patch cord can be used for some rare legacy applications that have a non-standard polarity.

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Characteristics

Construction characteristics	
Armour type	Aramid yarn
Colour	Violet
Connector type	Duplex LC-LC
Fiber optic type	OM4 50/125
Outer sheath	LSZH-FR
Dimensional characteristics	
Outer Diameter	2 mm
Mechanical characteristics	
Crush resistance (IEC 60794-1-E3)	100 N/cm
Maximum pulling force (IEC 60794-1-2-E1)	100 N
Mechanical resistance to impacts (IEC 60794-1-E4)	10 impacts of 1 N.m
Transmission characteristics	
Insertion Loss, maximum, dB	0.25 dB
Return Loss, Minimum, dB	30 dB
Usage characteristics	
Flame retardant	IEC 60332-1
Minimum static operating bending radius	10 mm
Operating temperature, range	-20...60 °C

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