

LANmark Industry Optical Fibre cables

LANmark Industry TBX 6x multimode 50/125 OM3 PUR black

Nexans ref.: N165.922

- Fibre optic cable for industrial buildings
- Resistant to chemicals and petrochemicals
- Mechanically enhanced fibre buffering
- For direct connector termination
- Multimode OM3 fibre
- PUR-FR outer jacket
- Large temperature range

Description

Application

The LANmark Industry TBX 6x multimode 50/125 OM3 PUR black optical fibre cable has been designed for applications where a high level of installation, chemical and optical performance is required. The enhanced tight buffering gives extra temperature stability to the fibers and allows for direct termination.

This TBX cable is suitable for indoor installation as well as installation in ducts occasionally flooded. Its construction is all dielectric with flame retardance.

- **Lead free** outer sheath
- **Silicon free** outer sheath

The TBX cable show good resistance to abrasion and cuts and still remain very flexible and comfortable to handle during installation.

Applications support

- FDDI 100 Mbps
- Ethernet 10 base FL
- Fast Ethernet 100 base FX
- Gbit Ethernet 1000 base SX/LX
- 10Gbit Ethernet 10000 base SX(*)
- Fibre Channel 1.0625 Gbps
- ATM 155 Mbps
- ATM 622 Mbps

(*) in accordance with IEEE 802.3ae

Performance

The LANmark Industry TBX 6x multimode 50/125 OM3 PUR optical fibre cable is manufactured with OM3 multimode fibres. On request, this cable can be supplied with LANmark-OF3xt Laser Optimised multimode fibres offering extended application distances for 10Gigabit Ethernet.









Construction



LANmark
Industry

Standards









International ISO/IEC 11801;ISO/IEC 24702

							
Halogen free Yes	Lead free Yes	Mechanical resistance to impacts Medium	Cable flexibility Semi-rigid	Chemical resistance Very good	Flame retardant IEC 60332-1	Fire retardant No	Operating temp. range -30 .. 80 °C

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1. 250/400/900 μ m tight buffered fibre
2. Aramid yarns reinforcement
3. Flame retardant PUR outer sheath

							
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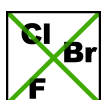
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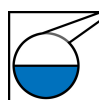
Characteristics

Construction characteristics	
Type of cable	Tight buffer
Armour type	Aramid yarn
Dielectric	Yes
Inner sheath	None
Outer sheath	PUR
Sheath colour	Black
Halogen free	Yes
Lead free	Yes
Fiber optic type	OM3 50/125
Dimensional characteristics	
Number of optical fibres	6
Outer Diameter	6.1 mm
Average sheath thickness	1.2 mm
Approximate weight	32 kg/m
Transmission characteristics	
Attenuation, nom. 850 nm (cabled)	2.6 dB/km
Attenuation, max. 850 nm (cabled)	3.2 dB/km
Attenuation, nom. 1300 nm (cabled)	0.8 dB/km
Attenuation, max. 1300 nm (cabled)	1.3 dB/km
Mechanical characteristics	
Abrasion resistance	High
Crush resistance (IEC 60794-1-E3)	30 N/cm
Mechanical resistance to impacts	Medium
Cable flexibility	Semi-rigid
Maximum pulling force by laying	2.5 kN
Maximum permanent tensile load	1.4 kN
Usage characteristics	
Field of application	Industrial installations
Chemical resistance	Very good
Silicon free	Yes
Packaging	Reel
Rodent protection	No
Flame retardant	IEC 60332-1
Fire retardant	No
Operating temperature, range	-30 .. 80 °C
Ambient installation temperature, range	0 .. 40 °C

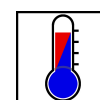

Halogen free
Yes

Lead free
Yes

Mechanical resistance to
impacts
Medium

Cable
flexibility
Semi-rigid

Chemical
resistance
Very good

Flame
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IEC 60332-1

Fire retardant
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Operating temp.
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Usage characteristics

Laying operation bending radius	80 mm
Minimum static operating bending radius	80 mm
RoHS conform	Yes

Selling information

Other fiber types are available on request as well a fibre count of 4, 8 or 12 fibres.



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Lead free
Yes



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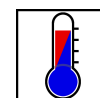
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Fire retardant
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Operating temp.
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