

TBW+ optical fibre cables

- Designed for direct termination on ST, SC or MT-RJ connectors
- Suitable for indoor and outdoor use in risers or ducts
- Fully waterproof, longitudinally and radially
- Provides rodent resistance
- Up to 24 fibre

Description

Application

LANmark-OF Tight Buffered optical fibre cables have been designed for applications where a high level of installation, environmental and optical performance is required. The tight buffered range is most suitable where direct termination is required

The majority of the tight buffered cables are suitable for both internal & external environments and are all dielectric with excellent flame retardance

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

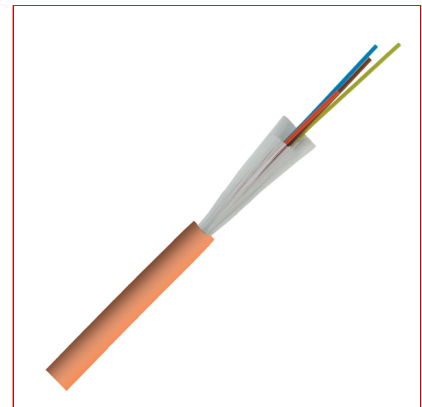
Performance

LANmark-OF Tight Buffered optical fibre cables are available with standard multimode & singlemode fibres whilst the LANmark-OFxt ranges are supplied with Laser Optimised multimode fibres offering extended application distances for Gigabit Ethernet.


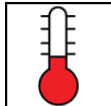
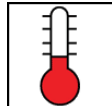
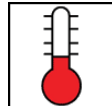
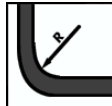
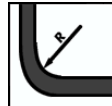
Construction

Legend accompanying cross section drawing:

1. 900 μm tight buffered fibre
2. Glass yarns reinforcement
3. Flame retardant halogen free outer sheath



LANmark-OF

					
Flame retardant IEC 60332 Part 3 Cat. C	Ambient installation temperature, range 0 .. 40 °C	Operating temperature, range -20 .. 70 °C	Storage temperature, range -20 .. 70 °C	Min. dynamic operating bending rad. 70.0 mm	Min. static operating bending rad. 70.0 mm

Characteristics

Construction characteristics

Type of cable	Tight Buffered Waterproof (TBW)
Armour type	Unarmoured
Material of filler / inner sheath	Glass yarn
Outer sheath	LSZH-FR
Fiber optic type	SingleMode 9/125

Dimensional characteristics

Nominal outer diameter	9.6 mm
Number of optical fibres	24
Approximate weight	94 kg/km

Transmission characteristics

Attenuation, nom. 1550 nm (cabled)	0.22 dB/km
Attenuation, max. 1550 nm (cabled)	0.28 dB/km
Attenuation, nom. 1300 nm (cabled)	0.35 dB/km
Attenuation, max. 1300 nm (cabled)	0.42 dB/km
Attenuation, nom. 850 nm (cabled)	2.5 dB/km
Attenuation, max. 850 nm (cabled)	3.0 dB/km

Mechanical characteristics

Crush resistance (IEC 60794-1-2-E3)	600 N/cm
Maximum permanent tensile load	1000 kN

Usage characteristics

Installation type	Indoor/Outdoor
Flame retardant	IEC 60332 Part 3 Cat. C
Rodent protection	Low
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-20 .. 70 °C
Storage temperature, range	-20 .. 70 °C
Minimum dynamic operating bending radius	70.0 mm
Minimum static operating bending radius	70.0 mm