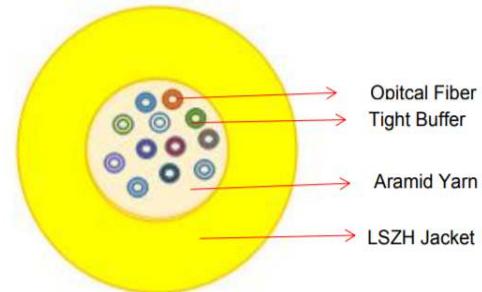


VOYGAR Indoor, Tight Buffered 900nm, Optical fibre Cable, LSZH, Multi-mode 50/125nm OM4, 2 Core

Ref. TM4NO902

The optical fibre is made of high pure silica and germanium doped silica. UV curable acrylate material is applied over fibre cladding as optical fibre primary protective coating. The detail data of optical fibre performance are shown in the following table



Features

Designed for direct termination and splicing
900 micron tight buffered fibres, surrounded by aramid yarns provides individual fibre protection
Indoor/Outdoor cable for horizontal and vertical installations
Aramid yarns for ease of handling and as strength element

Fibre Count	2
Fibre Type	Multimode OM4

Optical Specifications

Attenuation@850nm	≤2.4dB/km
Attenuation@1300nm	≤0.6dB/km
Attenuation@1380nm	≤2.0dB/km
Macro bending Loss	
(10 turns: Φ75mm) @850 nm	≤ 0.5dB
(10 turns: Φ 75mm) @1300 nm	≤ 0.5dB
Effective Group Index of Refraction	

Transmission Specifications

@850 nm	1.483
@1300 nm	1.478
Overfilled Modal Bandwidth	
@850nm	≥1500 MHz.km
@1300 nm	≥500 MHz.km
Effective Modal bandwidth @850nm	≥2000 MHz.km
1 Gb/s Ethernet link length	1000m
10 Gb/s Ethernet link length	300m

Dimensional Specifications

Cable weight	15.5 Kg/Km
Core diameter	50µm
Cladding diameter	125µm
LSZH Jacket Thickness	0.4mm
Stainless Spiral steel Diameter	2.8 mm
LSZH Jacket Diameter Thickness	0.8 mm
Outer Jacket Material Thickness	1.5mm
Outer LSZH Jacket Diameter	4mm



Mechanical Specifications

Proof Stress	≥100kpsl
Fatigue Resistance Parameter (Nd)	≥20
Coating Strip Force	≥1.5N

Environment

Installation Temperature	0 °C to +40 °C
Operating Temperature	-20 °C to +60 °C
Storage Temperature	-20 °C to +60 °C

Physical

Tensile Force (N)	
Installation	660
Operation	220
Crush Resistance (N)	
Installation	300
Operation	200
Minimal installation bending radius	20D (Cable Diameter)
Minimal operation bending radius	10D (Cable Diameter)

Test List

Tension Load Testing	
Test Standard	IEC 60794-1-2 E1
Sample Test	No less than 50 meters
Load	Max.tension load
Duration Time	1 minute
Test Results	
Fibre Strain:	≤ 0.33%
Additional Attenuation:	≤ 0.15dB

High- Low Temperature Test

Test Standard	IEC 60794-1-2 F1
Temperature step	0 °C → -40°C → +70°C → +20°C
Time per each step	12hrs
Cycles	2
Test Result	Attenuation variation for reference value (the attenuation to be measured before test at +20±3) ≤ 0.1dB/km

Water Presentation Test

Test Standard	IEC 60794-1-2 F5
Height of water column	1m
Test time	24hrs
Test Result	No water leakage from the opposite of the cable core