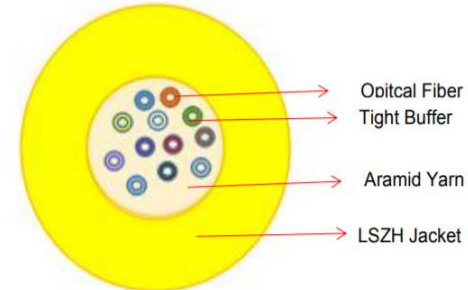


## VOYGAR Indoor, Tight Buffered 900nm, Optical fibre Cable, LSZH, Multimode 50/125nm OM3, 24 Core

### Ref. TM3NO924

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	24
Fibre Type	Multimode OM3

### Optical Specifications

Attenuation@850nm	$\leq 2.4$ dB/km
Attenuation@1300nm	$\leq 0.6$ dB/km
Attenuation@1380nm	$\leq 2.0$ dB/km

#### Macro bending Loss

(10 turns: $\Phi 75$ mm) @850 nm	$\leq 0.5$ dB
(10 turns: $\Phi 75$ mm) @1300 nm	$\leq 0.5$ dB
Effective Group Index of Refraction	

### Transmission Specifications

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

### Dimensional Specifications

Cable weight	66 Kg/Km
Core diameter	50 $\mu$ m
Cladding diameter	125 $\mu$ m
LSZH Jacket Thickness	0.4mm
Stainless Spiral steel Diameter	2.8 mm
LSZH Jacket Diameter Thickness	0.8 mm
Outer Jacket Material Thickness	1.5 mm
Outer LSZH Jacket Diameter	8 mm

### Mechanical Specifications

Proof Stress	$\geq 100\text{kpsl}$
Fatigue Resistance Parameter (Nd)	$\geq 20$
Coating Strip Force	$\geq 1.5\text{N}$

### 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)	
Long-Term	400
Short-Term	1200
Crush Resistance (N)	
Long-Term	300
Short-Term	1000
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:	$\leq 0.33\%$
Additional Attenuation:	$\leq 0.15\text{dB}$

### High- Low Temperature Test

Test Standard	IEC 60794-1-2 F1
Temperature step	0 °C $\rightarrow$ -40°C $\rightarrow$ +70°C $\rightarrow$ +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 $\pm$ 3) $\leq 0.1\text{dB/km}$

### 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