

OSA low smoke, zero halogen jacket, glass yarn armoured, rodent resistant loose tube fibre cable is suited to external underground installations in conduit and tunnels. GYA armoured loose tube is particularly suited to areas where rodents are an issue as the fibreglass yarn armouring offers an excellent deterrent to non-burrowing rodents.



Loose tube cable offers a cost-effective and rugged solution for medium and long distance external fibre runs and this LSZH variant is particularly suited to applications requiring a low smoke, low toxicity and low fume cable

OSA LSZH jacket glass yarn armoured loose tube cable is available to order in OM1, OM3, OM4 and Singlemode.<sup>1</sup>

## KEY FEATURES

- Fibreglass yarn armouring around the periphery of the cable offers a deterrence to non-burrowing rodents
- Low smoke, zero halogen outer jacket suitable for a range of installations
- Water swellable yarns provide protection against water ingress (dry core construction)
- Non-metallic construction
- Fibreglass reinforced polymer central strength member
- Flexible buffer tubes provide easy handling within termination enclosures
- Single layer SZ stranding limits stress on fibre tubes
- Fibre friendly thixotropic gel in tubes ensures fibre protection
- TIA 598 standard colour code
- 12 fibre tube construction<sup>2</sup>

## Applications

- Underground ducts
- Tunnels and confined environments
- Rodent prone areas

## Fibre Performance

Fibre type	OM1	OM3	OM4	OS1/2 (G652.D)
Attenuation at 850nm (db/km)	≤3.2	≤2.7	≤2.5	n/a
Attenuation at 1300/1310nm (db/km)	≤1.0	≤0.8	≤0.7	≤0.35
Attenuation at 1550nm (db/km)	n/a	n/a	n/a	≤0.23
Attenuation at 1625nm (db/km)	n/a	n/a	n/a	<0.27
Bandwidth at 850nm [1300nm] (MHz.km)	≥200 [≥500]	≥1500 [≥500]	≥3500 [≥500]	n/a



## Technical Specifications

<b>Temperature range (°C)</b>	Operating: -20 to +70 Storage: -20 to +70 Install: -20 to +70	(IEC 60794-1-2-F1)
<b>Max tensile force (N)</b>	2000	(IEC 60794-1-2-E1)
<b>Cable bend radius</b>	20 x Cable OD	(IEC 60794-1-2-E11)
<b>Repeated bending</b>	30 Cycles, 20 x OD, 5kg load	(IEC 60794-1-2-E6)
<b>Crush resistance (N/100mm)</b>	2000	(IEC 60794-1-2-E3)
<b>Impact resistance</b>	0.5m height, 5kg weight, 3 impacts in 3 locations	(IEC 60794-1-2-E4)
<b>Torsion resistance</b>	10 Cycles ( $\pm 180^\circ$ ), 2m length, 5kg weight	(IEC 60794-1-2-E7)
<b>Kink resistance</b>	20 x Cable OD	(IEC 60794-1-2-E10)
<b>Water penetration</b>	1m head, 3m cable, 24 hours	(IEC 60794-1-2-F5)

## Cable Characteristics

<b>Fibre Count</b>	6 - 72
<b>Nominal diameter (mm)</b>	10
<b>Nominal weight (kg/km)</b>	95
<b>Minimum bend radius (cm)</b>	20

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