







SM

OM1

OM₂

OM3

OM4

OM5

Deploy your network with confidence in even the most challenging environments, with ATEX gland compatibility



Bespoke UK Manufacture



Highest Level of **Physical Protection**



ATEX approved gland available



Designed for Harsh Conditions



Deploy your network with confidence in even the most challenging environments. Our preterminated steel wire armoured (SWA) fibre optic assemblies provide exceptional protection against rodent damage, crushing, and harsh conditions.

With ATEX gland compatibility for marine and oil and gas applications, these versatile cables offer unwavering protection and simplified installation wherever you need it most.

Available in Single-mode and Multimode, all of our pre-terminated assemblies are manufactured in our dedicated UK facility, custom made to your specifications.

FEATURES

- UK Manufacture:

 Bespoke design, high precision,

 consistent quality and fast turnaround.
- Ruggedised Tails:

 Enabling direct point to point patching, or used within a patch panel.
- Steel Wire Armoured:

 Offering enhanced protection for cables deployed in harsh environments.
- Reinforced Protection Tube:

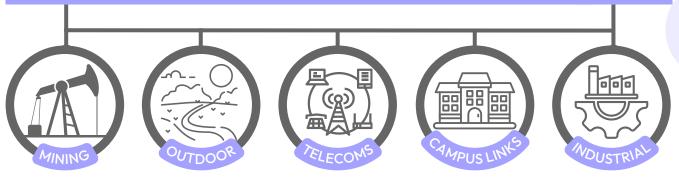
 Can be fitted with a water and crush resistant tube, for extra protection during installation

BENEFITS

- Pre-Terminated Solution:
 No onsite termination required; enabling for faster, more efficient installation.
- Unmatched Physical Protection:
 Offering the high level of mechanical and rodent resistance.
- Custom Made & Fast Turnaround:
 Factory terminated connectors provide lowest guaranteed losses.
- ATEX Compliance:

 Ensures safe operation in explosive atmospheres

APPLICATIONS



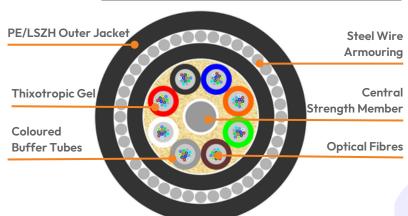
fibre optic assembly specialists



NB: Construction of a (Multi Loose Tube) SWA Armoured cable

CABLE CONSTRUCTION

- Central loose tube.
- Gel filled tubes
- Multiple 250µm fibres.
- E-glass protection.
- 0.8-1.2mm inner jacket.
- 0.6-0.9mm steel wire armouring.
- 10.8-11.2mm outer jacket.
- PE, LSZH, flame resistant.
- CPR Eca.



SPECIFICATIONS

Element	Characteristic	
Fibre Mode	Single-mode Multimode: OM1, OM2, OM3, OM4, OM5	
Fibre Count	2, 4, 8, 12, 16, 24	
Connector Options	Simplex: LC, SC, E2000, FC/PC, ST, MU Uniboot: LC, MDC, SN & CS Polish: UPC & APC.	
Cable (LSZH)	Outer Jacket: 10.8-11.2mm	
Cubic (Lozin)	Nominal Weight: 292 (kg/km)	
Crush Resistance	4000N/100mm²	
Bend Radius	Install: 20D, Static: 20D	
Temperature Range	-20°C ~ +70°C	

Connector Type	IL Typical	IL Maximum	Return Loss
Single-mode UPC	<0.25dB	<0.35dB	≥50dB
Single-mode APC	<0.25dB	<0.35dB	≽60dB
Multimode UPC & APC	<0.25dB	<0.50dB	≥25dB



FIBRE SPECIFICATIONS

Fibre Mode	Fast Ethernet	1000Base-SX	10GBase-SR	40GBase-SR4	100GBase-SR10
Multimode OM1	2km	275m	33m	n/a	n/a
Multimode OM2	2km	550m	82m	n/a	n/a
Multimode OM3	2km	800m	300m	100m	100m
Multimode OM4	2km	1100m	400m	150m	150m
Multimode OM5	2km	1100m	400m	150m	150m
Single-mode OS1/OS2	40km	100km	40km	40km	40km

Fibre Mode	Core/Cladding (µm)	Wavelength	Maximum Attenuation
M W 1 007	/0 F/30F	850-nm	3.5dB/km
Multimode OM1	62.5/125	1300-nm	1.5dB/km
Multimode OM2 50/125	E0/12E	850-nm	3.5dB/km
	30/123	1300-nm	1.5dB/km
Multimode OM3 50/1	50/125	850-nm	3.0dB/km
	30/123	1300-nm	1.5dB/km
Multimode OM4 50/125	E0/12E	850-nm	3.0dB/km
	30/123	1300-nm	1.5dB/km
Multimode OM5	50/125	850-nm	3.0dB/km
		923-nm	2.3dB/km
		1300-nm	1.5dB/km
Single-mode 9/125	0/105	1310-nm	1.0dB/km
	9/125	1550-nm	0.5dB/km



BREAKOUT STYLES

- M-Line 28mm diameter with 24x 2mm tails.
- Available with Metallic or ATEX approved gland, with armour anchored in.
- Tail lengths from 0.3m to 2.5m.
- Staggered tails to fit protection tube.
- Simplex connectors for single fibre tails.
- Uniboot options for two fibre tails.





PROTECTION OPTIONS

Non-Staggered Tails		
Option	Pull Force	
Braided sleeve with pulling eye	50N	
PVC sleeve with pulling eye	30N	

Staggered Tails	
Option	Pull Force
Braided sleeve with pulling eye	50N
PVC sleeve with pulling eye	30N
Clear tube (28mm widest point)	400N
Reinforced tube (35mm widest point)	400N

