



leader
optec

FIBRE OPTIC ASSEMBLIES

FIBRE OPTIC PATCH LEADS

SM

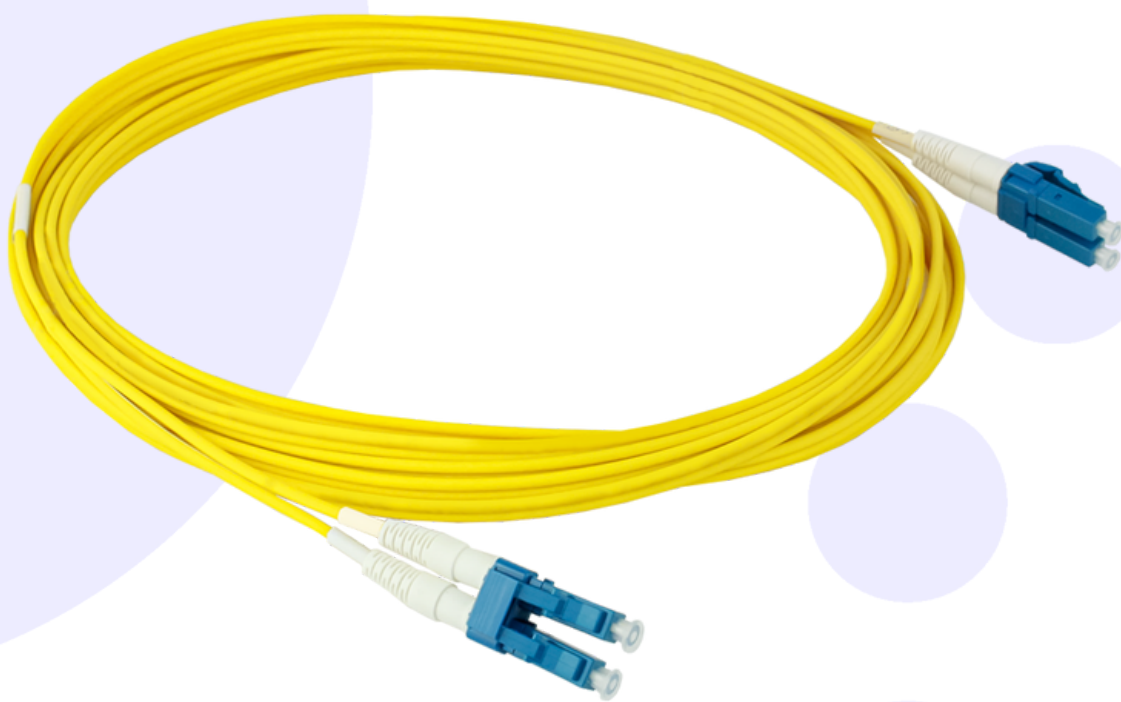
OM1

OM2

OM3

OM4

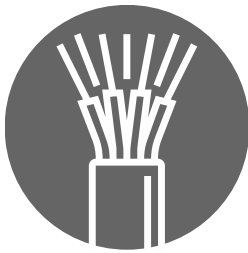
OM5



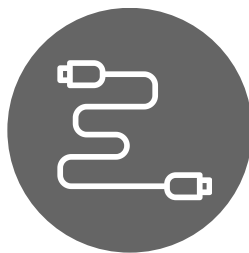
Premium Patch Leads available from stock, or made to order in our dedicated UK Manufacturing facility



Fast Turnaround
On UK Man



Available in Single
& Multimode



Various Connector
Configurations



Provide Flexible
Inter-Connectivity

fibre optic assembly specialists

VERSION 2 MARCH 2024

sales@leaderoptec.com

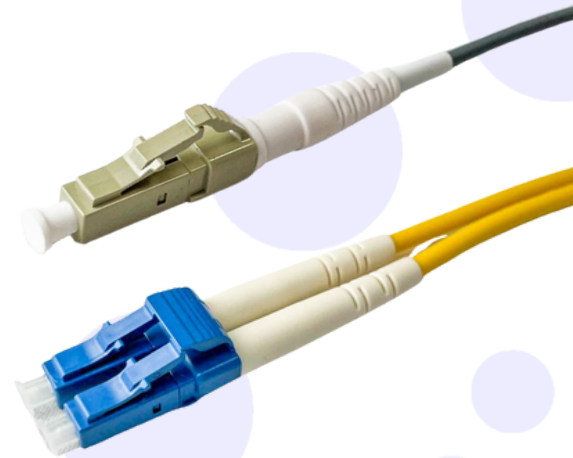
www.leaderoptec.com

FIBRE OPTIC PATCH LEADS



Patch Leads, also known as ‘Patch Cords’ or ‘Jumpers’, are lengths of flexible optical fibre cable fitted with fibre optic connectors at either end. They are most commonly available as Simplex, with a single fibre or Duplex, with two fibres. These are designed to connect to panels, boxes, closures and/or active equipment. Our Patch Leads are available in all fibre types across multimode and single-mode. Precision fitted connectors, including LC, SC, FC/PC and ST, available with PC, UPC or APC polishing for optimal performance. Most Patch Leads are designed for internal application. For outdoor options contact our sales team.

Jacket material is of great importance to all applications. While LSZH is the standard throughout the UK and European markets, CPR regulation has brought about the need for higher fire rated materials. While Patch Leads generally sit outside of the European scope, many projects and designers now choose to make them inclusive. Leader Optec has B2ca, currently the highest grade, available for manufacture within our UK facility.



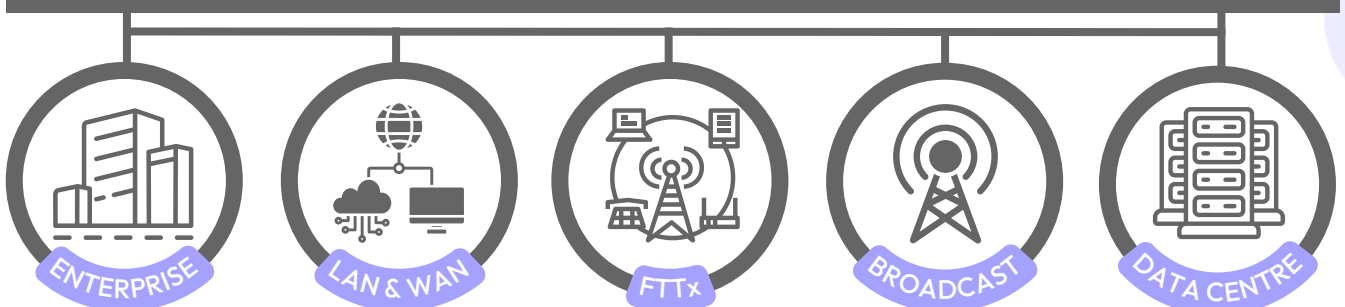
FEATURES

- Stringent Optical Testing
- Individually Packed for Protection
- Test Certificate Included
- Unique Traceable Serial No
- Manufactured to IEC Standards

BENEFITS

- High Stock Levels
- Fast turnaround
- Bespoke assemblies available
- Competitive Pricing
- UK Manufacture Option

APPLICATIONS



fibre optic assembly specialists

VERSION 2 MARCH 2024



sales@leaderoptec.com



www.leaderoptec.com

FIBRE OPTIC PATCH LEADS



PATCH LEAD VARIATIONS

- ✓ Simplex: Available on 2mm and 3mm cable diameter and selected where a single connector is required at each end.
- ✓ Duplex: Available in 2mm and 3mm options across three basic formats. Zip-cord or shot-gun is the most popular design and fitted with the greater range of connector types.
- ✓ Ruggedised Duplex: Also known as Flat Twin. More robust than Duplex, comprising of two simplex cables wrapped in an outer jacket.
- ✓ Round-Duplex: Looks similar to the Simplex cable but contains two fibres and is designed for space saving applications, utilising specialist connectors such as LCHDS and VSFF; MDC, SN & CS connectors.
- ✓ Armoured: Available on 3mm round cable, these leads feature a metal armouring for physical protection against crushing, rodent damage and mechanical stress.

CABLE SPECIFICATIONS

	Tight Buffered	Semi Loose	Fibre Coating (µm)	Outer Jacket Material	Jacket Size Approx. (mm)	Cable Design
900µm	No	Yes	900	LSZH	0.9 (900µm)	
2mm Simplex	Yes	No	600/900	LSZH	2.0	
2mm Duplex	Yes	No	600/900	LSZH	2.8	
3mm Simplex	Yes	No	900	LSZH	2.0 x 4.1	
3mm Duplex	Yes	No	900	LSZH	2.8 x 5.6	
2mm Flat Twin	Yes	No	600/900	LSZH	3.1 x 5.2	
3mm Flat Twin	Yes	No	900	LSZH	4.2 x 7.0	
2mm 2 Core	Yes	No	250	LSZH	2.0	
3mm 2 Core	Yes	No	600	LSZH	3.0	



FIBRE OPTIC PATCH LEADS



FIBRE SPECIFICATIONS

Fibres	OM1	OM2	OM3	OM4	G.652.D	G.657.A1	G.657.A2
Mode	Multimode				Single-mode		
Fibre Size	62.5/125µm	50/125µm			9/125µm		
Outer Sheath Colour*(LSZH)	Grey	Orange	Aqua	Heather Violet	Yellow		
Available Connectors	All UPC Connectors				All UPC and APC Connectors		
Bend Radius (mm)	30				30	10	7.5
Crush Resistance (N)	Simplex and Duplex = 1000N, Ruggedised Duplex = 2000N Armoured Simplex = 2000N, Armoured Duplex = 3000N						

*Other colours available upon request

CONNECTOR PERFORMANCE

Connector Type	Wavelength	IL Typical	IL Maximum	Return Loss
Single-mode UPC	1310-1550Nm	0.15dB	0.35dB	≥45dB
Single-mode APC	1310-1550Nm	0.15dB	0.35dB	≥60dB
Multimode UPC & APC	850-1300Nm	0.25dB	0.50dB	≥25dB

Simplex and Duplex Patch Leads are available with the following connectors:
LC, SC, ST, FC, E2000, LC/APC, SC/APC, FC/APC, E2000/ APC, LC Uniboot, SMA.

Round Duplex Patch Leads available with the following connectors:
Uniboot, LCHDS, VSFF, MDC, SN & CS connectors.

2mm Patch Leads are fitted with a short boot, 3mm Patch Leads are fitted with a standard boot, with flexi boot available on both 2mm and 3mm.

