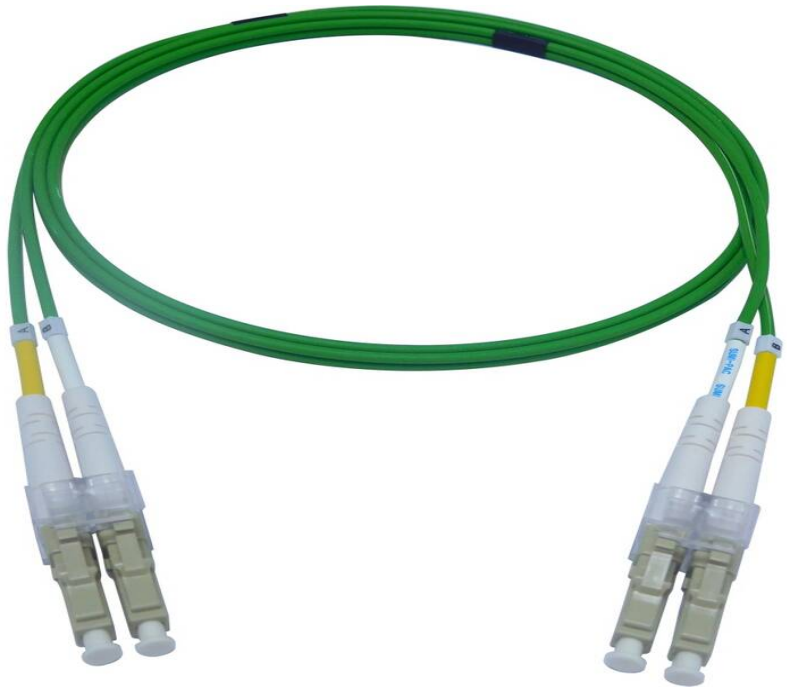
Excel Enbeam OM5 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Lime Green 3 m

Part Code: 204-603

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Main Features

- / 100% Optically Tested
- / Low Loss Connectors
- / Polarity Changeable (Duplex Connectors)
- / Test Certificate Included
- / Zirconia ceramic UPC ferrules
- / 25 Year system warranty

Product Overview

Excel Enbeam OM5 50/125 micron duplex patch leads are manufactured from the highest quality 900 micron buffer/jacket optical fibre, terminated with ceramic ferrule connectors. Each cable has strain relief boots to prolong and maintain performance levels of the assembly, transmit and receive 'legs' of each duplex cable are identified by means of ring type cable marker fixed to each end the assembly.

A short distance from these identification rings heat shrink is applied to maintain an easy to manage bonded two fibre cable, finally a label containing a unique batch number is fixed to the centre of cable for quality and traceability purposes.

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Product Specifications

Feature	Values
Fibre type	**Multi mode 50/125**
Category	**OM5**
Number of Cores	**2**
Outer diameter sheath single fibre	**4.1 mm**
Cable type	**Duplex**
Length	**3 m**
Type of connector connection 1	**LC**
Type of connector connection 2	**LC**
Outer sheath colour	**Green**
Strain relief boot	**Push-on**
Flame retardant according to IEC 60332-1-2	**yes**
Low smoke (acc. IEC 61034-2)	**yes**

Cable specifications

Features	Values	SC Assemblies	LC Assemblies
Cable Construction	**Duplex zip-cord**		
No. of Fibres	**2**		
Cable Dimensions		**2.8 x 5.7mm**	**2.0 x 4.0mm**
Colour	**Lime Green**		
Strength members	**Aramid Yarn**		
Temperature range	**-20C to +70C**		

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Connector Material		**Composite**	**Composite**
Minimum bend radius (loaded)	**10 x cable diameter**		
Connector Ferrule		**2.5mm Zirconium ceramic**	**1.25mm Zirconium ceramic**
Ferrule End Face	**PC Polish**		
Connector Insertion Loss	**Max. 0.3dB**		

Fibre specifications

Features	Values
Core diameter	**50 ± 2.5μm**
Core Non-circularity	**≤5%**
Core-Cladding Concentricity Error	**≤1.0μm**
Cladding diameter	**125 ± 0.8μm**
Cladding Non-circularity	**≤0.6%**
Primary Coating diameter	**245 ± 7μm**
Coating-Cladding Concentricity Error	**≤10.0μm**
Coating Non-circularity	**≤6.0%**
Secondary coating diameter	**900 μm nominal**
Max. attenuation at 850nm	**2.4dB/km**
Max. attenuation at 953nm	**1.7dB/km**
Max attenuation at 1300nm	**0.6dB/km**
Refractive Index at 850nm	**1.482**
Refractive Index at 1300nm	**1.477**

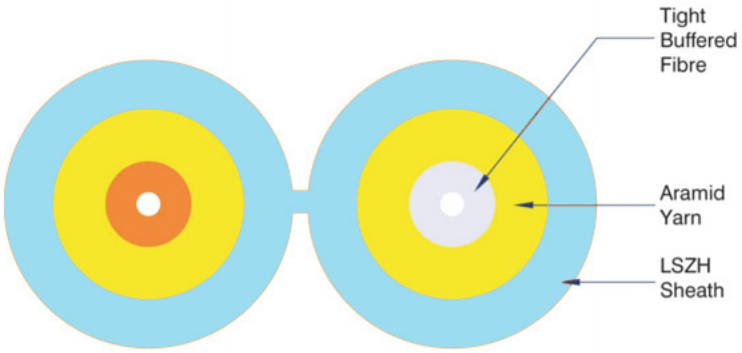
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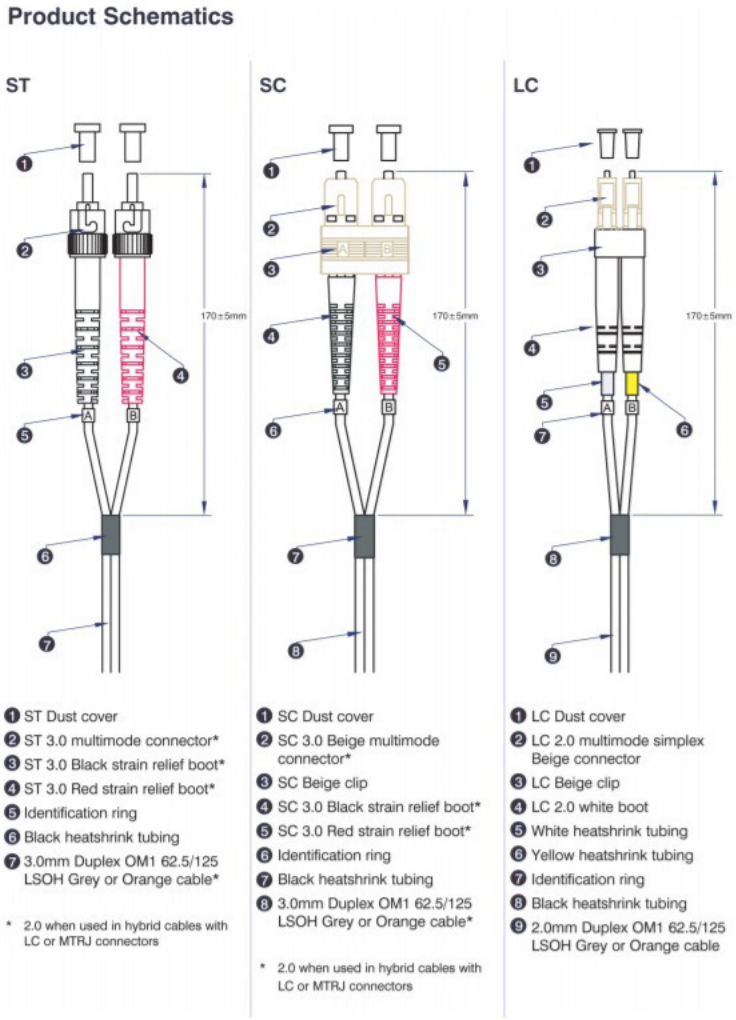
Bandwidth at 850nm	**≥3500 MHz.km**
Bandwidth at 953nm	**≥1850 MHz.km**
Bandwidth at 1300nm	**≥500 MHz.km**
Effective Modal Bandwidth at 850nm	**≥4700 MHz/km**
Effective Modal Bandwidth at 953nm	**≥2470 MHz/km**
Numerical Aperture	**0.200 ± 0.015**
Zero Dispersion Wavelength	**1295-1340nm**
Macrobending Loss - 2 turns, 15mm Radius, 850nm	**≤0.10dB**
Macrobending Loss - 2 turns, 15mm Radius, 1300nm	**≤0.30dB**
Macrobending Loss - 2 turns, 7.5mm Radius, 850nm	**≤0.2dB**
Macrobending Loss - 2 turns, 7.5mm Radius, 1300nm	**≤0.5dB**
Coating Strip Force (typical)	**1.5N**
Coating Strip Force (peak)	**1.3 - 8.9N**

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Cross-section diagram



Product Schematics



ST

1. ST Dust cover
2. ST 3.0 multimode connector*
3. ST 3.0 Black strain relief boot*
4. ST 3.0 Red strain relief boot*
5. Identification ring
6. Black heatshrink tubing
7. 3.0mm Duplex OM1 62.5/125 LSOH Grey or Orange cable*

* 2.0 when used in hybrid cables with LC or MTRJ connectors

SC

1. SC Dust cover
2. SC 3.0 Beige multimode connector*
3. SC Beige clip
4. SC 3.0 Black strain relief boot*
5. SC 3.0 Red strain relief boot*
6. Identification ring
7. Black heatshrink tubing
8. 3.0mm Duplex OM1 62.5/125 LSOH Grey or Orange cable*

* 2.0 when used in hybrid cables with LC or MTRJ connectors

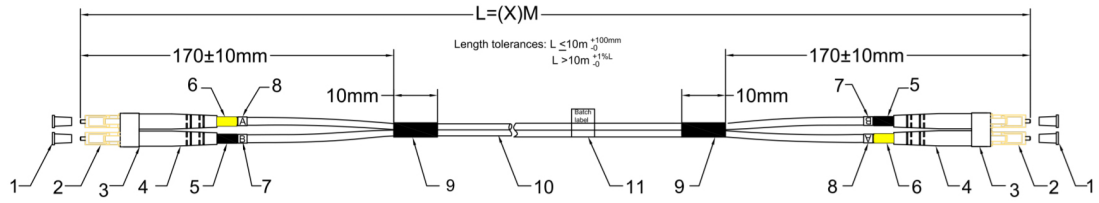
LC

1. LC Dust cover
2. LC 2.0 multimode simplex Beige connector
3. LC Beige clip
4. LC 2.0 white boot
5. White heatshrink tubing
6. Yellow heatshrink tubing
7. Identification ring
8. Black heatshrink tubing
9. 2.0mm Duplex OM1 62.5/125 LSOH Grey or Orange cable

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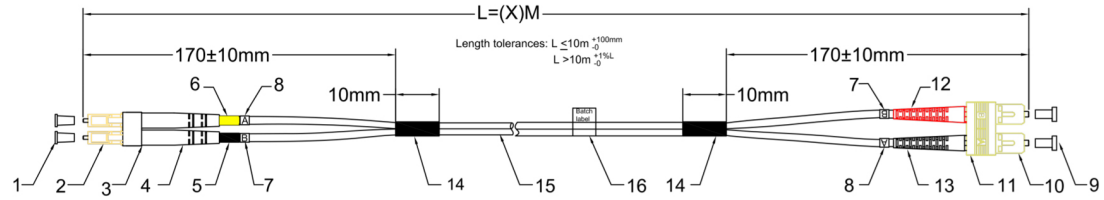
Product drawing

LC to LC



1. LC dust cover 2. LC/PC MM 2.0 connector, Beige 3. LC/PC 0.9mm Boot, White LC clip, clear
4. LC/PC 3.0 boot, White 5. LC shrink tube, white 6. LC shrink tube, yellow 7.B Ring 8. A Ring
9. Heat shrink tube, black 10. 02.0mm MM duplex OM5 50/125µ LSZH LIME GREEN cable 11. Batch label

LC to SC



1. LC dust cover 2. LC/PC MM 2.0 connector, Beige 3. LC clip, clear 4. LC/PC 3.0 boot, White
5. LC shrink tube, white 6. LC shrink tube, yellow 7.B Ring 8. A Ring 9. SC Dust cover
10. SC MM 2.0 connector, Beige 11. SC clip, beige 12. SC 2.0 boot,red 13. SC 2.0 boot, black
14. Heat shrink tube, black 15. 02.0mm MM duplex OM5 50/125µ LSZH LIME GREEN cable 16. Batch label

Standards

Applicable standard	Detail
BS EN 60332-1-2:2004+A11:2016	Tests on electric and optical fibre cables under fire conditions - Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame
IEC 60793-1-1:2022	Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance
IEC 60793-2:2015	Optical fibres - Part 2: Product specifications - General
IEC 60793-2-10:2017	Sectional specification for A1 multimode fibres

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IEC 60793-1-20:2014	Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry
IEC 60793-1-21:2001	Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry
IEC 60793-1-22:2001	Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement
IEC 60793-1-30:2010	Optical fibres - Part 1-30: Measurement methods and test procedures - Fibre proof test
IEC 60793-1-31:2010	Optical fibres - Part 1-31: Measurement methods and test procedures - Tensile Strength
ITU G.651.1	Characteristics of a 50/125 µm multimode graded index optical fibre cable for the optical access network
EN 50173-1:2018	Information technology. Generic cabling systems - General requirements
EN 50173-2:2007 + A1:2010	Information technology. Generic cabling systems - Office premises
IEC 61754-1:2013	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 1: General and guidance
IEC 61754-2:1996	Fibre optic connector interfaces - Part 2: Type BFOC/2,5 connector family
IEC 61754-4:2013	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4: Type SC connector family
IEC 61754-4-100:2015	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4-100: Type SC connector family - Simplified receptacle SC-PC connector interfaces
IEC 61754-20:2012	Fibre optic connector interfaces - Part 20: Type LC connector family
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states).
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates

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	(DEHP, BBP, DBP, DIBP) to Annex II — compliant.
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH.
Regulation (EU) 2019/1021 (POPs)	EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).
UK SI 2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

Part Code Table

Part Code	Description
204-600	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Lime Green 0.5 m**
204-601	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Lime Green 1 m**
204-602	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Lime Green 2 m**
204-603	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Lime Green 3 m**
204-604	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Lime Green 5 m**
204-605	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Lime Green 0.5 m**

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204-606	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Lime Green 1 m**
204-607	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Lime Green 2 m**
204-608	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Lime Green 3 m**
204-609	**Excel Enbeam OM5 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Lime Green 5 m**

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