



✗ Semi Loose Buffered

✗ Choice of connectors & lengths

✗ Each cable is individually packaged and labelled

✗ Test Certificate with each cable

✗ RoHS Compliant

✗ Bend insensitive construction

✗ CIBSE TM65 Embodied Carbon: 0.206 kg CO₂e

Product Overview

Excel multimode fibre optic pigtails are manufactured from the highest quality 900 micron optical fibre, terminated with ceramic ferrule connectors of various types. To assist in fast cable preparation and splicing semi tight buffered, easy strip, cable is used as standard. Cable preparation, termination and testing is carried out to strictly managed procedures in an Excel approved, ISO9001 registered manufacturing facility.

Each pigtail has a strain relief boot to prolong and maintain performance levels of the assembly. A short distance from the connector a label containing a unique batch number is fixed to cable for quality and traceability purposes.

Product Specifications

Feature	Values
Fibre type	Multi mode 50/125
Category	OM3
Length	2 m
Type of connector	LC
APC-type	no
Colour	Multi Coloured (TIA 598)
Strain relief boot	Push-on

Fibre specifications

Features	OM1	OM2	OM3	OM4	OM5
Core diameter	62.5 ± 2.5µm	50 ± 2.5µm	50 ± 2.5µm	50 ± 2.5µm	50 ± 2.5µm
Core Non-circularity	≤5%	≤5%	≤5%	≤5%	≤5%
Core-Cladding Concentricity Error	≤1.5µm	≤1.5µm	≤1.0µm	≤1.0µm	≤1.0µm
Cladding diameter	125 ± 1.0µm	125 ± 1.0µm	125 ± 1.0µm	125 ± 1.0µm	125 ± 0.8µm
Cladding Non-circularity	≤1.0%	≤1.0%	≤1.0%	≤1.0%	≤0.6%
Primary Coating diameter	245 ± 7µm				
Coating-Cladding Concentricity Error	≤10.0µm	≤10.0µm	≤10.0µm	≤10.0µm	≤10.0µm
Coating Non-circularity	≤6.0%	≤6.0%	≤6.0%	≤6.0%	≤6.0%
Secondary coating diameter	900 µm nominal				
Max. attenuation at 850nm	2.7dB/km	2.3dB/km	2.4dB/km	2.4dB/km	2.4dB/km
Max. attenuation at 953nm					1.7dB/km
Max attenuation at 1300nm	0.6dB/km	0.6dB/km	0.6dB/km	0.6dB/km	0.6dB/km
Refractive Index at 850nm	1.496	1.482	1.482	1.482	1.482
Refractive Index at 1300nm	1.491	1.477	1.477	1.477	1.477
Bandwidth at 850nm	200 MHz.km	500 MHz.km	≥1500 MHz.km	≥3500 MHz.km	≥3500 MHz.km
Bandwidth at 953nm					≥1850 MHz.km

Excel Enbeam Fibre Pigtail OM3 50/125 LC/UPC
12-Colour Pack (TIA 598) 2 m

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excel
without compromise.

Bandwidth at 1300nm	500 MHz.km	500 MHz.km	≥500 MHz.km	≥500 MHz.km	≥500 MHz.km
Effective Modal Bandwidth at 850nm			≥2000 MHz/km	≥4700 MHz/km	≥4700 MHz/km
Effective Modal Bandwidth at 953nm					≥2470 MHz/km
Numerical Aperture	0.275 ±0.015	0.200 ±0.015	0.200 ±0.015	0.200 ±0.015	0.200 ± 0.015
Zero Dispersion Wavelength	1320-1365nm	1295-1340nm	1295-1340nm	1295-1340nm	1295-1340nm
Macrobending Loss - 100 turns, 37.5mm Radius, 850nm	≤0.50dB	≤0.10dB	≤0.50dB	≤0.50dB	≤0.10dB
Macrobending Loss - 100 turns, 37.5mm Radius, 1300nm	≤0.50dB	≤0.30dB	≤0.50dB	≤0.50dB	≤0.30dB
Macrobending Loss - 2 turns, 7.5mm Radius, 850nm		≤0.2dB	≤1.0dB	≤1.0dB	≤0.2dB
Macrobending Loss - 2 turns, 7.5mm Radius, 1300nm		≤0.5dB	≤1.0dB	≤1.0dB	≤0.5dB

Cable specifications

Features	Values	ST Assemblies	SC Assemblies	LC Assemblies
Construction	Semi-Tight Buffered			
No. of Fibres	1			
Diameter	900 micron			
Temperature range	-20C to +70C			
Connector Material		Nickel plated Brass	Composite	Composite
Minimum bend radius	10 x cable diameter			
Connector Ferrule		2.5 mm Zirconium ceramic	2.5 mm Zirconium ceramic	1.25 mm Zirconium ceramic
Connector Insertion Loss	Max. 0.3 dB			
Connector Return Loss (Multimode)	Max. -30 dB			
Ferrule End Face (Singlemode UPC)	Max. -50 dB			
Ferrule End Face (Singlemode APC)	Max. -60 dB			

Standards

Applicable standard	Detail
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
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-T G.651.1:2018	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
RoHS-II/-III (2011/65/EU & 2015/863): 2023	Our products, demonstrate full adherence to the regulatory stipulations of the EU Directive 2011/65/EU (RoHS-II) and its corresponding delegated directive 2015/863 (RoHS-III).
ANSI/TIA 568-3.D	Optical Fiber Cabling and Components Standard
ISO/IEC 11801-1:2017	Information technology - Generic cabling for customer premises: Part 1 General Requirements
WFD: 2023	Compliant to Waste Framework Directive
SCIP: 2023	Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)
POPs (EU) No 2019/1021	EU Regulation for the restriction of Persistent Organic Pollutants.

Part Number Table

Part Number	Description
200-458	Excel Enbeam Fibre Pigtail OM3 50/125 LC/UPC Tight Buffered 12-Colour Pack (TIA 598) 2 m
200-546	Excel Enbeam Fibre Pigtail OM3 50/125 LC/UPC 12-Colour Pack (TIA 598) 1 m
200-547	Excel Enbeam Fibre Pigtail OM4 50/125 LC/UPC 12-Colour Pack (TIA 598) 1 m

Excel Enbeam Fibre Pigtail OM3 50/125 LC/UPC 12-Colour Pack (TIA 598) 2 m

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200-578	Excel Enbeam Fibre Pigtail OM3 50/125 LC/UPC 12-Colour Pack (TIA 598) 0.5 m
200-603	Excel Enbeam Fibre Pigtail OM3 50/125 LC/UPC 12-Colour Pack (TIA 598) 2 m
200-604	Excel Enbeam Fibre Pigtail OM4 50/125 LC/UPC 12-Colour Pack (TIA 598) 2 m
204-322	Excel Enbeam Fibre Pigtail OM4 50/125 LC/UPC 12-Colour Pack (TIA 598) 0.5 m

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

Contact us at sales@excel-networking.com

E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.

