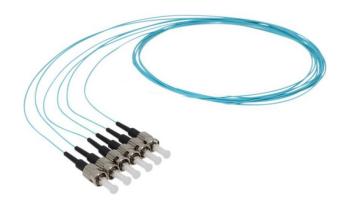
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X Semi Loose Buffered
X Choice of lengths
X Choice of connectors
X Each cable is individually packaged and labelled
X Test Certificate with each cable
X RoHS Compliant

#### **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.

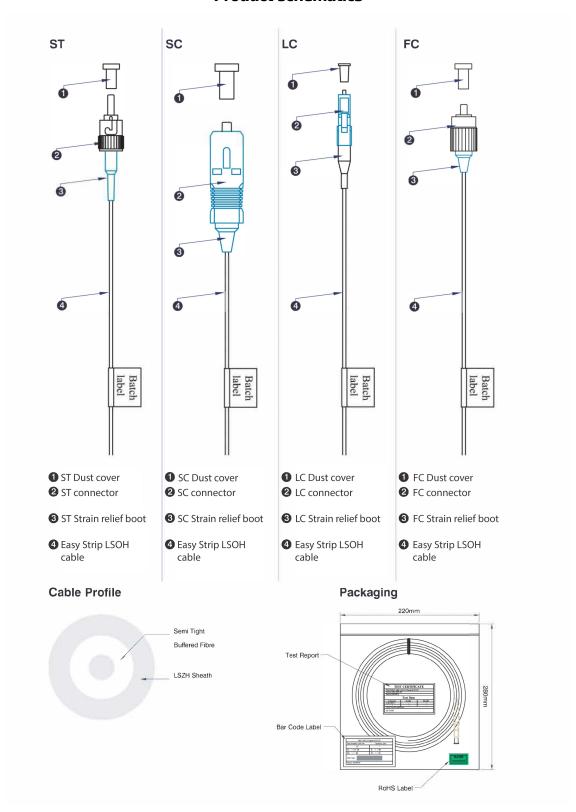
#### **Product Specifications**

Feature	Values
Fibre type	Multi mode 50/125
Category	ОМЗ
Length	1 m
Type of connector	ST
APC-type	no
Colour	Aqua
Strain relief boot	Push-on

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#### **Product schematics**



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### Fibre specifications

Features	OM1	OM2	OM3	OM4	OM5
Core diameter	62.5 ± 2.5μm	50 ± 2.5μm	$50 \pm 2.5 \mu m$	$50 \pm 2.5 \mu m$	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	245 ± 7μm	245 ± 7μm	245 ± 7μm	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	900 µm nominal	900 μm nominal	900 μm nominal	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

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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
Nµmerical 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

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### **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		2.5mm Zirconium ceramic	2.5mm Zirconium ceramic	1.25mm Zirconium ceramic
Connector Insertion Loss	Max. 0.3dB			
Connector Return Loss (Multimode)	Max30dB			
Ferrule End Face (Singlemode UPC)	Max50dB			
Ferrule End Face (Singlemode APC)	Max60dB			

### **Standards**

Applicable standard	Detail
IEC 60793-1-1:2017	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

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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 $\mu m$ 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)

### **Part Number Table**

Part Number	Description
200-637	Excel Enbeam Fibre Pigtail OM1 62.5/125 SC/UPC Grey 1 m (12-Pack)
200-638	Excel Enbeam Fibre Pigtail OM1 62.5/125 ST/UPC Grey 1 m (12-Pack)
200-639	Excel Enbeam Fibre Pigtail OM1 62.5/125 LC/UPC Grey 1 m (12-Pack)
200-640	Excel Enbeam Fibre Pigtail OM2 50/125 ST/UPC White 1 m (12-Pack)
200-641	Excel Enbeam Fibre Pigtail OM2 50/125 SC/UPC White 1 m (12-Pack)

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200-642	Excel Enbeam Fibre Pigtail OM2 50/125 LC/UPC White 1 m (12-Pack)
200-643	Excel Enbeam Fibre Pigtail OM3 50/125 ST/UPC Aqua 1 m (12-Pack)
200-644	Excel Enbeam Fibre Pigtail OM3 50/125 SC/UPC Aqua 1 m (12-Pack)
200-645	Excel Enbeam Fibre Pigtail OM3 50/125 LC/UPC Aqua 1 m (12-Pack)
200-646	Excel Enbeam Fibre Pigtail OM4 50/125 SC/UPC Violet 1 m (12-Pack)
200-647	Excel Enbeam Fibre Pigtail OM4 50/125 LC/UPC Violet 1 m (12-Pack)

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

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