Excel Enbeam Fibre Pigtail OS2 9/125 SC/APC Tight Buffered 12-Colour Pack (TIA 598) 2 m

Item Code: 200-456

- Colour-coded fibres to TIA standard
- Tight buffered construction
- Easy to manage packaging
- Bend insensitive construction
- Test Certificate with each cable
- RoHS Compliant
- CIBSE TM65 Embodied Carbon: 0.343 kg CO2e

Product Overview

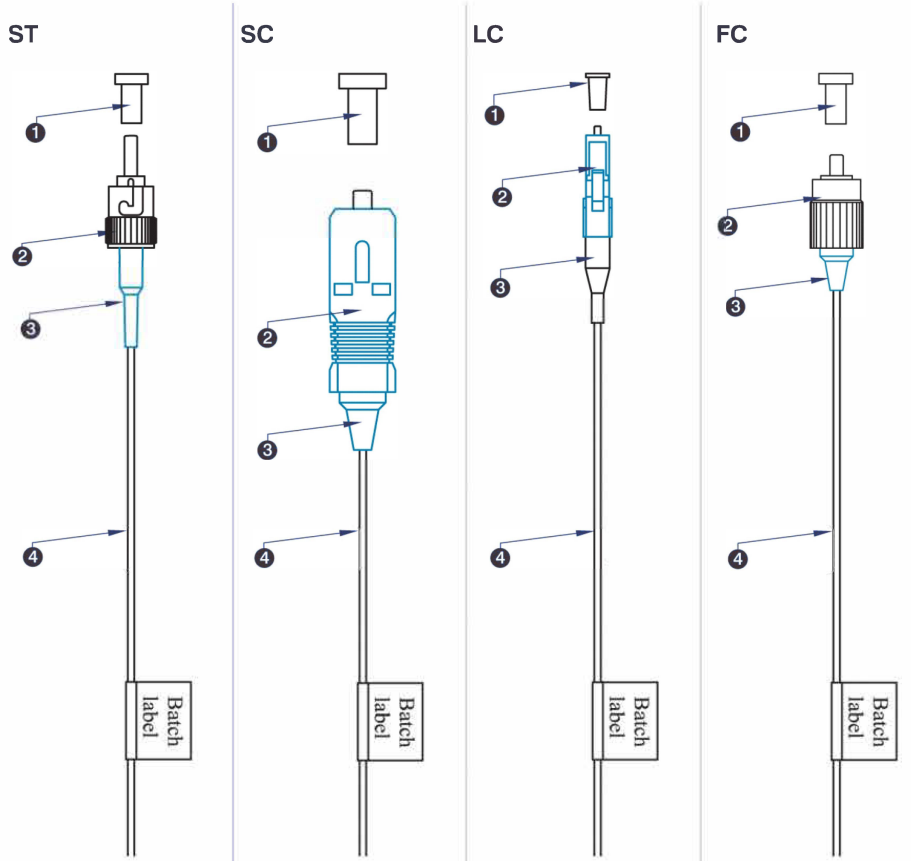
Excel singlemode Tight Buffered fibre optic pigtails are manufactured from the highest quality 900 micron optical fibre, terminated with ceramic ferrule connectors of various types.

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

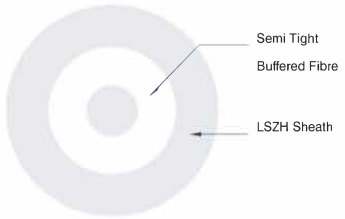
Feature	Values
Fibre type	Single mode
Category	OS2
Length	2 m
Type of connector	SC
APC-type	yes
Colour	Multi Coloured (TIA 598)
Strain relief boot	Push-on

Product schematics

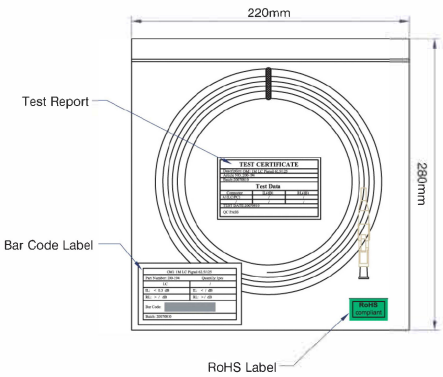


ST	SC	LC	FC
❶ ST Dust cover	❶ SC Dust cover	❶ LC Dust cover	❶ FC Dust cover
❷ ST connector	❷ SC connector	❷ LC connector	❷ FC connector
❸ ST Strain relief boot	❸ SC Strain relief boot	❸ LC Strain relief boot	❸ FC Strain relief boot
❹ Easy Strip LSOH cable	❹ Easy Strip LSOH cable	❹ Easy Strip LSOH cable	❹ Easy Strip LSOH cable

Cable Profile



Packaging



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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		2.5 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			

Fibre specifications

Features	Values
Mode Field diameter at 1310 nm	8.4-9.2 µm
Mode Field diameter at 1550 nm	9.3-10.3 µm
Cladding diameter	125.0±0.7 µm
Cladding Non-circularity	≤ 0.7 %
Primary Coating diameter	235-245 µm
Coating-Cladding Concentricity Error	≤ 12 µm
Coating Non-circularity	≤ 6.0 %
Core-Cladding Concentricity Error	≤ 0.5 µm
Max. attenuation at 1310 nm	≤ 0.35 dB/km
Max. attenuation at 1383 nm	≤ 0.35 dB/km

Max. attenuation at 1460 nm	≤ 0.25 dB/km
Max. attenuation at 1490 nm	≤ 0.23 dB/km
Max attenuation at 1550 nm	≤ 0.21 dB/km
Max attenuation at 1625 nm	≤ 0.23 dB/km
PMD (typical value)	0.04 ps/km
Cut-off wavelength	1260 nm
Zero dispersion wavelength	1300-1324 nm
Zero dispersion slope	≤0.092 ps/nm2.km
Refractive Index at 1310 nm	1.466
Refractive Index at 1550 nm	1.467
Macro-Bend Loss - 10 turns, 15 mm radius, 1625 nm	≤ 0.0 3dB
Macro-Bend Loss - 10 turns, 15 mm radius, 1550 nm	≤ 0.1 dB
Macro-Bend Loss - 1 turn, 10 mm radius, 1550 nm	≤ 0.1 dB
Macro-Bend Loss - 1 turn, 10 mm radius, 1625 nm	≤ 0.2 dB
Macro-Bend Loss - 1 turn, 7.5 mm radius, 1550 nm	≤ 0.5 dB
Macro-Bend Loss - 1 turn, 7.5 mm radius, 1625 nm	≤ 1.0 dB

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
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.652:2016	Characteristics of a single-mode optical fibre and cable
ITU-T G.657:2016	Characteristics of a bending-loss insensitive single-mode optical fibre and cable
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
200-454	Excel Enbeam Fibre Pigtail OS2 9/125 SC/UPC Tight Buffered 12-Colour Pack (TIA 598) 2 m
200-455	Excel Enbeam Fibre Pigtail OS2 9/125 LC/UPC Tight Buffered 12-Colour Pack

	(TIA 598) 2 m
200-456	Excel Enbeam Fibre Pigtail OS2 9/125 SC/APC Tight Buffered 12-Colour Pack (TIA 598) 2 m
200-457	Excel Enbeam Fibre Pigtail OS2 9/125 LC/APC Tight Buffered 12-Colour Pack (TIA 598) 2 m
200-548	Excel Enbeam Fibre Pigtail OS2 9/125 LC/UPC 12-Colour Pack (TIA 598) 1 m
200-554	Excel Enbeam Fibre Pigtail OS2 9/125 SC/UPC Yellow 2 m
200-561	Excel Enbeam Fibre Pigtail OS2 9/125 LC/UPC Yellow 2 m
200-565	Excel Enbeam Fibre Pigtail OS2 9/125 LC/UPC 12-Colour Pack (TIA 598) 0.5 m
200-576	Excel Enbeam Fibre Pigtail OS2 9/125 ST/UPC Yellow 2 m
200-602	Excel Enbeam Fibre Pigtail OS2 9/125 LC/UPC 12-Colour Pack (TIA 598) 2m
200-723-12	Excel Enbeam Fibre Pigtail OS2 9/125 SC/UPC Semi Loose Buffer Yellow 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

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