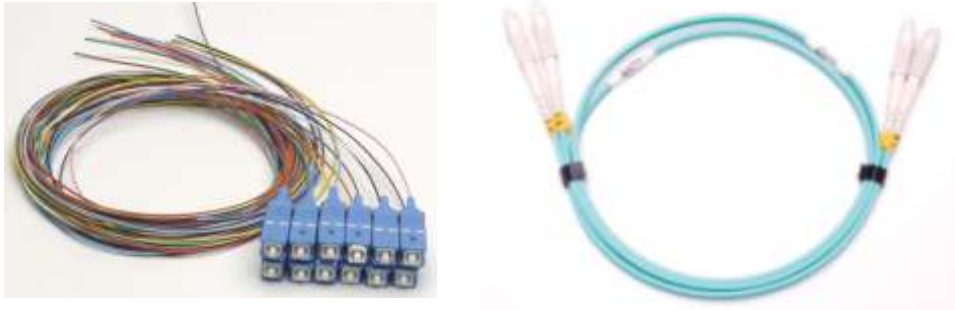


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Fibre Optic Pigtails and Patch Cord Assemblies

Issue 7



Simplex pigtails are used in communication networks for direct fusion splicing on to cables used for connecting between patch panels and/or active equipment.

Patch cords are used in communication networks for connecting between patch panels and/or active equipment.

Available as 9µm singlemode (OS2), 62.5µm multimode (OM1) or 50µm multimode (OM3)

Specifications

General for Enterprise products:

Environment	Indoors
Operating Temperature.....	-20° to +70° C
Compliance to:	IEC 61300-2
.....	AS/ACIF S008
Minimum Bend Radius	25mm

Pigtails Singlemode **9/125µm 0.9mm**, OS2

Core Size/cladding:	9/125µm
Tight Buffer colour:	White
Tight Buffer Dia.:	0.9mm
Tight Buffer Material:	Hytel
Return Loss	
SPC polish, typical:	>40dB
APC polish, typical:	>65dB

Pigtails Multimode **50µm Enhanced 0.9mm**, OM3

Core Size/cladding:	50/125µm
Tight Buffer colour:	Slate
Tight Buffer Dia:	0.9mm
Tight Buffer Material:	Hytel
Return Loss	
SPC polish, typical:	>40dB

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Pigtails Multimode 62.5µm 0.9mm, OM1

Core Size/cladding: 62.5/125µm
 Tight Buffer colour: White
 Tight Buffer Dia.: 0.9mm
 Tight Buffer Material: Hytrel
 Return Loss
 SPC polish, typical: >40dB

Pigtails Multimode 62.5µm 3mm, OM1

Core Size/cladding: 62.5/125µm
 Jacket colour: Orange (other colours on request)
 Jacket Dia: 3mm
 Jacket Material: Low Smoke Zero Halogen
 Return Loss
 SPC polish, typical: >40dB

Patch Cords Singlemode 9/125µm 2mm, OS2

Tensile Strength: 45N
 Core Size/cladding: 9/125µm
 Jacket colour: Yellow (other colours on request)
 Jacket Dia: 2mm
 Jacket Material: Low Smoke Zero Halogen
 Connector colour : Blue
 Return Loss
 SPC polish, typical: >40dB
 APC polish, typical: >65dB

Patch Cords 50µm Enhanced 2mm, OM3

Tensile Strength: 45N
 Core Size/cladding: 50/125µm
 Jacket colour: Aqua (other colours on request)
 Jacket Dia: 2mm
 Jacket Material: Low Smoke Zero Halogen
 Connector colour : Beige
 Return Loss
 SPC polish, typical: >40dB

Patch Cords Multimode 62.5µm 2mm, OM1

Tensile Strength: 45N
 Core Size/cladding: 62.5 /125µm
 Jacket colour: Orange (other colours on request)
 Jacket Dia: 2mm
 Jacket Material: Low Smoke Zero Halogen
 Connector colour : Beige
 Return Loss
 SPC polish, typical: >40dB



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Patch Cords Singlemode 9/125µm 3mm, OS2

Tensile Strength:	45N
Core Size/cladding:	9/125µm
Jacket colour:	Yellow (other colours on request)
Jacket Dia:	3mm
Jacket Material:	Low Smoke Zero Halogen
Connector colour :	Blue
Return Loss	
SPC polish, typical:	>40dB
APC polish, typical:	>65dB

Patch Cords Multimode 50µm Enhanced 3mm, OM3

Tensile Strength:	45N
Core Size/cladding:	50/125µm
Jacket colour:	Aqua (other colours on request)
Jacket Dia:	3mm
Jacket Material:	Low Smoke Zero Halogen
Connector colour :	Beige
Return Loss	
SPC polish, typical:	>40dB

Pigtails and Patch Cords are manufactured from glass fibre with the following specifications:

9µm Singlemode:

Optical Fibre Specification:	Zero Water Peak OS2 9/125µm
Complies with:	ITU-T G.652D and IEC 60793-2-50 Type B1.3
Mode Field Diameter @ 1310nm:	9.2±0.4µm
Numerical Aperture:	0.13
Maximum Attenuation (dB/km)	
@1310nm:	≤0.4
@1383nm:	≤0.4
@1550nm:	≤0.3

50µm Enhanced Multimode:

Optical Fibre Specification:	OM3 50/125µm
Minimum Bandwidth	
OFL:	1500/500 MHz.km @ 850/1300nm
EMB:	2000/500 MHz.km @ 850/1300nm
Maximum Attenuation (dB/km)	
@850nm:	2.4
@1300nm:	0.6

62.5µm Multimode:

Optical Fibre Specification:	OM1 62.5/125µm
Minimum Bandwidth:	200/500 MHz.km @ 850/1300nm
Maximum Attenuation (dB/km)	
@850nm:	3.0
@1300nm:	0.7

Ordering Information			
Description	Quantity	Colour	Product No.
Patch Cords Singlemode/Multimode, Simplex/Duplex	Bag of 1	Various	Refer part number configurator
Pigtails Singlemode Simplex	Bag of 1	Various	
SC Simplex Singlemode Pigtails, 1m	Bag of 12	Various	6877 1 031-00
ST Simplex Singlemode Pigtails, 1m	Bag of 12	Various	6877 1 050-00
SC Simplex 62,5/125µm Multimode Pigtails, 1m	Bag of 12	Various	6877 1 032-00
ST Simplex 62,5/125µm Multimode Pigtails, 1m	Bag of 12	Various	6877 1 038-00
LC Simplex 50µm OM3 Multimode Pigtails, 1m	Bag of 12	Various	6877 1 039-00
SC/APC Simplex Singlemode Pigtails, 1m	Bag of 12	Various	6877 1 044-00
LC Simplex Singlemode Pigtails, 1m	Bag of 12	Various	6877 1 049-00

No.	Mode	Fibre & cable type	Connector 1	Connector 2	-	Polishing	Length			Colour
							x10m	x1m	x0.1m	
6881	1 SMF 9/125µm OS2	1 0.9mm Simplex	1 SC	1 SC	-	1 SPC	x10m	x1m	x0.1m	PI Pink RD Red
		2 3mm Simplex					10m	1m	0.1m	
	3 MMF 62.5/125µm OM1	3 2mm Simplex	5 ST	5 ST	-	3 APC 8	20m	2m	0.2m	PU Purple/ Violet
		4 2mm Duplex					30m	3m	0.3m	
	4 MMF 50/125µm OM3	5 3mm Duplex	6 MTRJ	6 MTRJ	-	5 UPC	40m	4m	0.4m	BK Black GR Green BL Blue Y Yellow AQ Aqua GY Grey OR Orange
							50m	5m	0.5m	
							60m	6m	0.6m	
							70m	7m	0.7m	
			8 LC	8 LC	-	9 Different polish at each end	80m	8m	0.8m	
		90m					9m	0.9m		
			0 No Connector (Pigtail)							

Length examples: 10m = -X100 1m=-X010 0.1m=-X001

Ordering Examples:

Example 1. SC SPX Pigtail 9/125µm 0.9mm Lead 2m length = 6881 1 110-1020

No.	Mode	Fibre & cable type	Connector 1	Connector 2	-	Polishing	Length			Colour
6881	1 SMF 9/125µm OS2	1 0.9mm Simplex	1 SC	0 No Connector	-	1 SPC	0	2	0	Default

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Fibre Optic Pigtails and Patch Cord Assemblies

Example 2. SC LC 50/125µm OM3 2mm Duplex Patch Cord 10m = 6881 4 418-1100

No.	Mode	Fibre & cable type	Connector 1	Connector 2	-	Polishing	Length			Colour
6881	4 MMF 50/125µm OM3	4 2mm Duplex	1 SC	8 LC	-	1 SPC	1	0	0	AQ Aqua

When assigning numbers, SC connectors are first in the order number assignment, if no SC connectors then the lowest numbered connector is assigned first.

Standard Colours:

Cable & Cable Assemblies (Patch cords):

- OS2 – Yellow
- OM1 (62.5µm) – Orange
- OM3 (50µm Enh.) – Aqua

Connectors:

TYPE	OS2 APC	OS2	OM3	OM1
LC	Green	Blue	Aqua	Beige
SC				
ST		Yellow		
MTRJ	N.A.	Black		

Pigtails:

- 0.9mm OS2 and OM1(tight buffer) - White
- OM3 – Slate

Note:

- Minimum order quantities apply for non-standard colours, refer to standard colour information on this page.
- Standard lengths are 1, 2, 3 and 5m. Non-standard lengths are made to order and may attract longer lead times.

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