Fiber Infra Solutions

DATASHEET

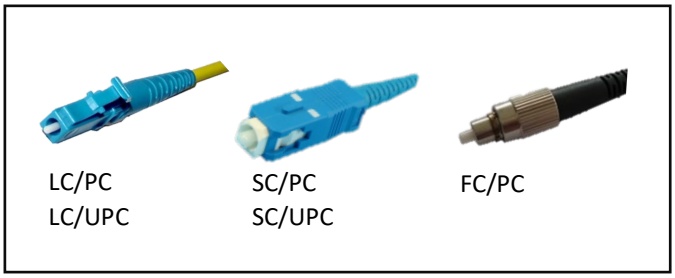
CIS-DS-017 REV A 20-10-2020

Optical Assemblies (Pigtails/Patch Cords)

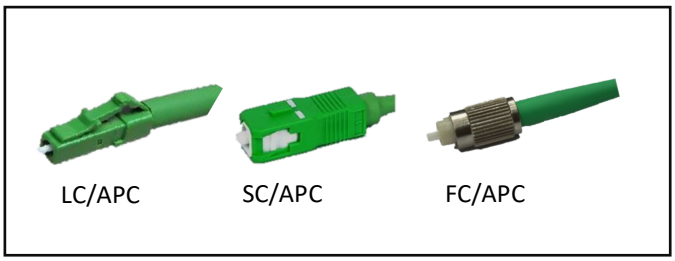
Optical cable assemblies (pigtail/patch cord) are the base passive products in optical communication system. CISFIBER Infra Solution's provides a broad variety of cable assemblies including SC, FC, LC with Ultra-polished, Angle- polished (APC) or other polish requirement for use in FTTx, telecommunications, data communications and CATV applications.

Fiber Optic Cabling: Patch Cords and Pigtails

RoHS COMPLIANT **All materials are RoHS Compliant**



LC/PC LC/UPC SC/PC SC/UPC FC/PC



LC/APC SC/APC FC/APC

ST connector types are available on request.

Performance Specification:

Connectors comply to IEC 61754-20 , IEC 61754-4 & IEC 61754-13 respectively.

Products comply to ISO/IEC 11801

Multimode	Fiber type	Max . Attenuation (dB)	Min. Return Loss (dB)
LC , SC , FC (PC)	OM1,OM2	0.30	20
FC (PC)	OM3,OM4	0.30	20
LC, SC (PC)	OM3,OM4	0.30	35

Single mode	Fiber type	Max . Attenua-tion (dB)	Min. Return Loss (dB)
LC , SC , FC (PC)	OS1/OS2	0.30	45
LC , SC (UPC)	OS1/OS2	0.30	50
LC, SC, FC (APC)	OS1/OS2	0.30	60

IL/RL are measured against reference connectors

Typical Characteristics:

Item	Specification
Fiber Cable retention	Ø > 1.8 mm; Max 50N (For jacketed cable)
Mating Durability	500 cycles
Operating temperature	-20°C to +60°C
Storage temperature	-20°C to +60°C

Endface Geometry Specification:

Parameter	Specification	
Endface	UPC	APC
Radius of curvature	5mm ≤ R ≤ 30mm	5mm ≤ R ≤ 12mm
Apex Offset	< 50µm	< 50µm
Spherical height	-100nm to +100nm	-100nm to +100nm
Polish Angle	NA	8° (+/-0.3)

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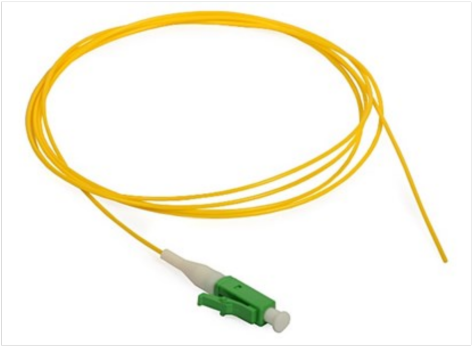
APPLICATIONS

- Optical distribution
- Wide Network Area
- CATV
- Passive Optical Network
- Local Area Network
- FTTx application

ORDERING GUIDE

1. Pigtails 900micron & 2.0 - 3.0mm Jacketed



900 micron Pigtails

2.0mm & 3.0mm Pigtails

PT											
Product Family		**Connector 1**		**Cable Type**		**Fiber Type**		**Jacket Material**		**Length**	
Type	**Catalog Code**	**Type**	**Catalog Code**	**Cable Construction**	**Catalog Code**	**Fiber Type**	**Catalog Code**	**Jacket Material**	**Catalog Code**	**Length**	**UoM**
Pigtail	PT	SC/PC	SCP	900µ Buffer	9B	SM OS1/OS2 G652D	2D	LSZH	LS	XXXM	M
		SC/APC*	SCA	2.0mm	2S	SM G657A1	A1	PVC	PV	DXXM	M
		LC/PC	LCP	3.0mm	3S	SM G657A2	A2			*Use DXX for Decimal Lenghts	
		LC/APC*	LCA			SM G657B1	B1				
		FC/PC	FCP			SM G657B2	B2				
		FC/APC*	FCA			OM1	M1				
		ST/PC	STP			OM2	M2				
		*APC version only available with SM Fiber only				OM3	M3				
						OM4	M4				

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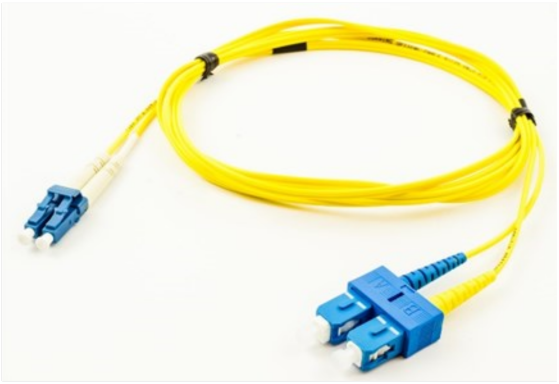
2. Simplex and Duplex Patchcords

Simplex Patch Cords



Duplex Patch Cords

PC													
Product Family		**Connector 1**		**Connector 2**		**Cable Type**		**Fiber Type**		**Jacket Material**		**Length**	
Type	**Catalog Code**	**Type**	**Catalog Code**	**Type**	**Catalog Code**	**Cable Construction**	**Catalog Code**	**Fiber Type**	**Catalog Code**	**Jacket Material**	**Catalog Code**	**Length**	**UoM**
Patch Cord	PC	SC/UPC	SCU	SC/UPC	SCU	900 micron Buffer	9B	SM OS1/OS2 G652D	2D	LSZH	LS	XXXM	M
		SC/PC	SCP	SC/PC	SCP	2.0mm Simplex	2S	SM G657A1	A1	PVC	PV	DXXM	M
		SC/APC*	SCA	SC/APC*	SCA	2.0mm Simplex Armoured	2SA	SM G657A2	A2			*Use DXX for Decimal Lengths	
		LC/UPC	LCU	LC/UPC	LCU	2.0mm Duplex	2D	SM G657B1	B1				
		LC/PC	LCP	LC/PC	LCP	2.0mm Duplex Armoured	2DA	SM G657B2	B2				
		LC/APC*	LCA	LC/APC*	LCA	3.0mm Simplex	3S	OM1	M1				
		FC/UPC	FCU	FC/UPC	FCU	3.0mm Simplex Armoured	3SA	OM2	M2				
		FC/PC	FCP	FC/PC	FCP	3.0mm Duplex	3D	OM3	M3				
		FC/APC*	FCA	FC/APC*	FCA	3.0mm Duplex Armoured	3DA	OM4	M4				
		ST/PC	STP	ST/PC	STP								
		*APC version only available with SM Fiber only		*APC version only available with SM Fiber only									