

Singlemode Patch Cords and Pigtails



Description

ADC KRONE offers a wide array of singlemode fibre optic patch cords, featuring Riser and LSZH cables.

ADC KRONE's singlemode connectors are available with either ultra physical contact (UPC) or angled physical contact (APC) polish. Connector types may be combined to produce hybrid patch cords. All patch cords are tested to ensure that the highest quality standards are met.

Features

- Serial number for each connector guarantees easy identification and traceability
- 100% optically tested
- Visual inspection of all features
- Insertion loss and return loss values certified and sent with every patch cord

Cable types

Low smoke zero halogen (LSZH or LS0H) is a type of cable jacketing made of polypropylene that emits limited smoke and no halogens when exposed to fire or strong heat. They do not produce a dangerous gas/acid combination in case of fire. LSZH cables are mainly used in European countries.

ADC KRONE LSZH cables comply with the flammability specifications outlined in IEC 60332-3, IEC 61034 and IEC 60754-1/2.







Riser cables are made from flame-retardant material intended for use in riser shafts without the use of conduit. This cable material will prevent the spread of fire from floor to floor. ADC KRONE uses riser cables which meet UL Flammability standards 1666 OFNR. Riser cables are mainly used in the Americas and in the Asia-Pacific region.

Fiber types

The ADC KRONE's standard singlemode fiber is according to ITU-T G.652.D. The fiber for reduced bend radius (RBR) application corresponds to G.657.A+B.

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Connector Types

<p>SC</p> <ul style="list-style-type: none"> • Can be arranged in rows with no space between the adapters: provides high density termination • Push-pull locking assures high tensile strength and ease of use 	
<p>LC</p> <ul style="list-style-type: none"> • Through use of a mini-ferrule, this connector is only half the size of an SC connector, providing even greater termination density • Snap-action locking assures high tensile strength and ease of use • Duplex patch cords feature a snap-on clip making later re-positioning possible 	
<p>LX.5™</p> <ul style="list-style-type: none"> • Half the size of SC connectors • Hinged self-actuating shutters on both the connector and adapter offer dust protection and laser-safety • Invented and patented by ADC 	
<p>E2000</p> <ul style="list-style-type: none"> • Can be arranged in rows with no space between the adapters to provide high density termination • Push-pull locking assures high tensile strength and ease of use • Integrated laser and dust protection 	
<p>ST</p> <ul style="list-style-type: none"> • Bayonet locking mechanism makes it quick and easy to use 	
<p>FC</p> <ul style="list-style-type: none"> • Stable and reliable contact due to thread locking • Often used with test equipment 	

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Connector Specifications

Optical Performance of Singlemode Patch Cords

		SC	LC	LX.5™	E2000	ST	FC
Insertion loss	against master ¹⁾	< 0.25 dB typ. 0.10 dB	< 0.25 dB typ. 0.10 dB	< 0.25 dB typ. 0.10 dB	< 0.25 dB typ. 0.10 dB	< 0.3 dB typ. 0.10 dB	< 0.25 dB typ. 0.10 dB
	each-to-each ²⁾	< 0.45 dB typ. 0.15 dB	< 0.45 dB typ. 0.15 dB	< 0.45 dB typ. 0.15 dB	< 0.45 dB typ. 0.15 dB	< 0.45 dB typ. 0.15 dB	< 0.45 dB typ. 0.15 dB
Return loss	UPC polishing	> 55 dB	> 55 dB	> 55 dB	> 55 dB	> 55 dB	> 55 dB
	APC polishing	> 65 dB	> 65 dB	> 65 dB	> 65 dB	–	> 65 dB

Mechanical Performance/Features

		SC	LC	LX.5™	E2000	ST	FC
Standard	IEC	61754-4	61754-20	61754-23	61754-15	61754-2	61754-13
	TIA/EIA	604-3	604-10-A	604-13	604-16	604-2	604-4-A
Ceramic ferrule	diameter	2.5 mm	1.25 mm	1.25 mm	2.5 mm	2.5 mm	2.5 mm
Colour (housing/ boot)	UPC polishing	blue	blue	blue	blue	black boot	blue boot
	APC polishing	green	green	green	green	--	green boot
Strain relief ³⁾		100 N	100 N	100 N	100 N	100 N	100 N
Service life		1000 cycles	1000 cycles	1000 cycles	1000 cycles	1000 cycles	1000 cycles

1) according to IEC 61300-3-4

2) according to IEC 61300-3-34

3) depending on cable type

Singlemode Patch Cords

Catalogue Number

Patch Cords (connectors on both ends)

FPC - / - - M

Fiber Type	Diameter	Jacket	Colour	Code
Standard	0.9 mm	Tight buffered	white	9
Standard	0.9 mm	Semi tight buffered	yellow	9K
Standard	1.8 mm	LSZH	yellow	H1
Standard	1.8 mm duplex	LSZH	yellow	H2
Standard	2.0 mm	Riser	yellow	M
Standard	2.0 mm duplex	Riser	yellow	2
Standard	2.4 mm	LSZH	yellow	H5
Standard	3.0 mm	LSZH	yellow	H3
Standard	3.0 mm duplex	LSZH	yellow	H6
Reduced bend radius	0.9 mm	Tight buffered	blue	9W
Reduced bend radius	0.9 mm	Semi tight buffered	blue	9A
Reduced bend radius	1.8 mm	LSZH	blue	HA
Reduced bend radius	1.8 mm duplex	LSZH	blue	HB
Reduced bend radius	2.0 mm	Riser	blue	MW
Reduced bend radius	2.0 mm duplex	Riser	blue	2W

Connector Type #1	Code
SC/UPC	SPSC
SC/UPC duplex	SDSC
SC/APC	APSC
SC/APC duplex	ADSC
LC/UPC	SPLC
LC/UPC duplex	SDLC
LC/APC	APLC
LC/APC duplex	ADLC
LX.5/UPC	SPLX
LX.5/UPC duplex	SDLX
LX.5/APC	ALX5
LX.5/APC duplex	ADLX
E2000 UPC	SE2
E2000 UPC duplex	SDE2
E2000 APC	AE2
E2000 APC duplex	ADE2
ST/UPC	SPST
FC/UPC	SPFC
FC/APC	APFC

Connector Type #2	Code
As connector #1	Blank
SC/UPC	PSC
SC/UPC duplex	SDSC
SC/APC	APSC
SC/APC duplex	ADSC
LC/UPC	PLC
LC/UPC duplex	DLC
LC/APC	APLC
LC/APC duplex	ADLC
LX.5/UPC	PLX
LX.5/UPC duplex	SDLX
LX.5/APC	ALX5
LX.5/APC duplex	ADLX
E2000 UPC	E2
E2000 UPC duplex	SDE2
E2000 APC	AE2
E2000 APC duplex	ADE2
ST/UPC	PST
FC/UPC	PFC
FC/APC	APFC

Fiber Type	Code
Standard	S
Reduced bend radius	P

Assembly Length	Code
1 to 20 m in 1 meter increments	1...20
25 to 65 m in 5 meter increments	25...65
70 to 150 m in 10 meter increments	70...150

Ordering Example

FPCH3-APSC-S-10M: Singlemode patch cord with SC/APC connectors on both ends, LSZH cable 3mm, 10 meters in length.

Ordering Example

FPCH2-SPLC/E2-S-10M: Singlemode patch cord with LC/UPC connectors on one end and E2000/UPC connectors on the other end, Duplex cable 1.8 mm, 10 meters in length.

Singlemode Pigtails

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Catalogue Number

Pigtails (connector on one end)

FPT - - - M

Fiber Type	Diameter	Jacket	Colour	Code
Standard	0.9 mm	Tight buffered	white	9
Standard	0.9 mm	Semi tight buffered	yellow	9K
Standard	1.8 mm	LSZH	yellow	H1
Standard	1.8 mm duplex	LSZH	yellow	H2
Standard	2.0 mm	Riser	yellow	M
Standard	2.0 mm duplex	Riser	yellow	2
Standard	2.4 mm	LSZH	yellow	H5
Standard	3.0 mm	LSZH	yellow	H3
Standard	3.0 mm duplex	LSZH	yellow	H6
Reduced bend radius	0.9 mm	Tight buffered	blue	9W
Reduced bend radius	0.9 mm	Semi tight buffered	blue	9A
Reduced bend radius	1.8 mm	LSZH	blue	HA
Reduced bend radius	1.8 mm duplex	LSZH	blue	HB
Reduced bend radius	2.0 mm	Riser	blue	MW
Reduced bend radius	2.0 mm duplex	Riser	blue	2W

Connector Type #1	Code
SC/UPC	SPSC
SC/UPC duplex	SDSC
SC/APC	APSC
SC/APC duplex	ADSC
LC/UPC	SPLC
LC/UPC duplex	SDLC
LC/APC	APLC
LC/APC duplex	ADLC
LX.5/UPC	SPLX
LX.5/UPC duplex	SDLX
LX.5/APC	ALX5
LX.5/APC duplex	ADLX
E2000 UPC	SE2
E2000 UPC duplex	SDE2
E2000 APC	AE2
E2000 APC duplex	ADE2
ST/UPC	SPST
FC/UPC	SPFC
FC/APC	APFC

Ordering Example

FPTH3-SPLC-S-10M: Singlemode pigtail with LC/UPC connectors on one end, LSZH cable 3mm, 10 meters in length.

Fiber Type	Code
Standard	S
Reduced bend radius	P

Assembly Length	Code
1 to 20 m in 1 meter increments	1...20
25 to 65 m in 5 meter increments	25...65
70 to 150 m in 10 meter increments	70...150

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