

DATA SHEET

Fiber Optic Duplex Patch Cords

Riser and Plenum Patch Cords with Preinstalled Connectors

Our fiber optic patch cords are factory terminated, inspected and tested to meet industry standards. They are available in either riser or plenum flame rating, and have a 2.0mm or 3.0mm thick color-coded jacket.

Standard patch cords are available in simple or duplex style, have matching connectors at each end and are available in 1, 2, 3, 5, and 10 meter lengths. They feature low connector insertion loss to ensure proper operation upon installation. Duplex cable is conveniently labeled with an A or B to identify the connector at each end.

Specialty and custom patch cords are also available with different connectors at each end, or connectorless when used to terminate bulk fiber cables via mechanical or fusion splicing.

RLH patch cords are commonly used in communications, data centers and industrial control environments, and are ideal for reliable and rapid interconnection of any fiber optic based equipment.



Key Features

- Standard 1,2,3,5 and 10 meter lengths
- Custom lengths up to 99 meter lengths
- Simplex or Duplex fiber
- Includes individual test results
- Available in Riser or Plenum rated jacketing
- Meets or exceeds industry standards
- Conveniently identified connector ends
- Can be configured to meet your requirements

Specifications

Cable Parameters	Singlemode	OM1	OM2	OM3	OM4
Fiber Count	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
Jacket Rating	OFNR or ORNP	OFNR or ORNP	OFNR or ORNP	OFNR or ORNP	OFNR or ORNP
Jacket Diameter	2 mm or 3 mm	2 mm or 3 mm	2 mm or 3 mm	2 mm or 3 mm	2 mm or 3 mm
Jacket Color	Yellow	Orange	Orange	Aqua	Aqua

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Specifications (cont'd)

Cable Parameters	Singlemode	OM1	OM2	OM3	OM4
Standard	SM - G.652D	OM1	OM2	OM3 - 10G-150	OM4
Wavelength (nm)	1310/1550	850/1300	850/1300	850/1300	850/1300
Attenuation Coefficient (dB/km)	≤0.34 @ 1310nm ≤0.20 @ 1550nm	≤2.7 @ 850nm ≤0.6 @ 1300nm	≤2.5 @ 850nm ≤0.6 @ 1300nm	≤2.5 @ 850nm ≤0.8 @ 1300nm	≤2.5 @ 850nm ≤0.8 @ 1300nm
Bandwidth (Min) (MHz/km)	–	200 @ 850nm 500 @ 1300nm	500 @ 850nm 500 @ 1300nm	–	–
OFL Bandwidth (MHz/km)	–	–	–	≥700 @ 850nm ≥500 @ 1300nm	≥3500 @ 850nm ≥500 @ 1300nm
Effective Modal (MHz/km)	–	–	–	≥950 @ 850nm ≥500 @ 1300nm	≥4700 @ 850nm ≥500 @ 1300nm

Mechanical Characteristics		Singlemode	Multimode (OM1 - OM4)
Simplex 2mm Jacket	Tension (N)	Long Term - 60 Short Term - 100	Long Term - 60 Short Term - 100
	Crush (N/10 cm)	Long Term - 100 Short Term - 500	Long Term - 100 Short Term - 500
	Min. Bend Radius	Dynamic - 50 mm Static - 30 mm	Dynamic - 50 mm Static - 30 mm
Simplex 3mm Jacket	Tension (N)	Long Term - 80 Short Term - 150	Long Term - 80 Short Term - 150
	Crush (N/10 cm)	Long Term - 100 Short Term - 500	Long Term - 100 Short Term - 500
	Min. Bend Radius	Dynamic - 60 mm Static - 30 mm	Dynamic - 60 mm Static - 30 mm
Duplex 2mm Jacket	Tension (N)	Long Term - 80 Short Term - 150	Long Term - 90 Short Term - 150
	Crush (N/10 cm)	Long Term - 100 Short Term - 500	Long Term - 200 Short Term - 1000
	Min. Bend Radius	Dynamic - 50 mm Static - 30 mm	Dynamic - 50 mm Static - 30 mm
Duplex 3mm Jacket	Tension (N)	Long Term - 160 Short Term - 300	Long Term - 160 Short Term - 300
	Crush (N/10 cm)	Long Term - 200 Short Term - 1000	Long Term - 200 Short Term - 1000
	Min. Bend Radius	Dynamic - 60 mm Static - 30 mm	Dynamic - 60 mm Static - 30 mm
Storage Temperature		-20°C to +60°C	-20°C to +60°C
Operating Temperature		-20°C to +60°C	-20°C to +60°C

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Specifications (cont'd)

Cable Mode	Connector	Connector Color	Duplex Boot Color		Simplex Boot Color		Polish	Insertion Loss	Return Loss
			2 mm	3 mm	2 mm	3 mm			
Singlemode	ST	Metal	Blue/White	Blue/White	Blue	Blue	UPC	≤ 0.30dB(0.25dB↓)	≥ 50dB
	SC	Blue	Blue/White	Blue/White	Blue	Blue	UPC	≤ 0.30dB(0.25dB↓)	≥ 50dB
	SC/APC	Green	Blue/White	Blue/White	Blue	Blue	APC	≤ 0.30dB(0.25dB↓)	≥ 60dB
	LC	Blue	White*	Blue/White	White	Blue	UPC	≤ 0.30dB(0.25dB↓)	≥ 50dB
	LC/APC	Green	White*	Blue/White	White	Blue	APC	≤ 0.30dB(0.25dB↓)	≥ 60dB
	FC	Metal	Black**	Black	Black	Black	UPC	≤ 0.30dB(0.25dB↓)	≥ 50dB
	FC/APC	Metal	Green**	Green	Green	Green	APC	≤ 0.30dB(0.25dB↓)	≥ 60dB
OM1	ST	Metal	Black/Red	Black/Red	Black	Black	PC	≤ 0.30dB(0.2dB↓)	–
	SC	Beige	Black/Red	Black/Red	Black	Black	PC	≤ 0.30dB(0.2dB↓)	–
	LC	Beige	Black/Red	Black/Red	Black	Black	PC	≤ 0.30dB(0.2dB↓)	–
	FC	Metal	Black**	Black	Black	Black	PC	≤ 0.30dB(0.2dB↓)	–
OM3	ST	Metal	Black/Red	Black/Red	Black	Black	PC	≤ 0.30dB(0.2dB↓)	–
	SC	Beige	Black/Red	Black/Red	Black*	Black	PC	≤ 0.30dB(0.2dB↓)	–
	LC	Beige	White*	Black/Red	White	Black	PC	≤ 0.30dB(0.2dB↓)	–
	FC	Metal	Black**	Black	Black	Black	PC	≤ 0.30dB(0.2dB↓)	–
OM4	SC	Magenta	Black/Red	Black/Red	Black	Black	PC	≤ 0.30dB(0.2dB↓)	–
	LC	Magenta	White*	Black/Red	White	Black	PC	≤ 0.30dB(0.2dB↓)	–
	FC	Metal	Black**	Black	Black	Black	PC	≤ 0.30dB(0.2dB↓)	–

*Connectors with white boots will have yellow/white heat shrink under the boot to indicate fiber A & B

** FC connectors will be tagged with A & B indicators

NOTE: Operating temperature for all cables is **-20°C to +60°C**

NOTE: Test Standards for all cables are **NTT or Telcordia GR 326core**

Fiber Part Numbers	Singlemode	OM1	OM2	OM3	OM4	
Simplex	2 mm Jacket	RLH-JSR2SM-**M	RLH-JSR2MM-**M	RLH-JSR2M5-**M	RLH-JSR2MX-**M	RLH-JSR2MC-**M
	3 mm Jacket	RLH-JSR3SM-**M	RLH-JSR3MM-**M	RLH-JSR3M5-**M	RLH-JSR3MX-**M	RLH-JSR3MC-**M
Duplex	2 mm Jacket	RLH-JDR2SM-**M	RLH-JDR2MM-**M	RLH-JDR2M5-**M	RLH-JDR2MX-**M	RLH-JDR2MC-**M
	3 mm Jacket	RLH-JDR3SM-**M	RLH-JDR3MM-**M	RLH-JDR3M5-**M	RLH-JDR3MX-**M	RLH-JDR3MC-**M

** Indicates the length in meters and may range from 01 to 99

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Ordering Information

To order standard Fiber Optic Patch Cords in 1, 2, 3, 5, and 10 meter lengths, please visit the Fiber Optic Patch Cord page on our web site to select the desired length and connector options and order directly online, or contact us directly for assistance.

To order custom patch cords, please visit our Custom Fiber Optic Duplex Patch Cord configurator page on our web site to purchase directly online, or refer to the Fiber Optic Patch Cord part number matrix below and contact us for ordering information.

RLH - J

A	B	C	D

 -

E	F

 -

G	H

A - # of Fibers

S = Simplex
D = Duplex

B - Jacket

R = Riser (OFNR)
P = Plenum (OFNP)
L = LSZH

C - Diameter

3 = 3mm
2 = 2mm
1 = 1.6mm

E - Connector 1

ST = ST
SC = SC
SD = SC D*
SA = SC/APC
SB = SC/APC D*
LC = LC
LD = LC D*
LA = LC/APC
LB = LC/APC D*
FC = FC
FA = FC/APC

MU = MU
MA = MU/APC
MJ = MTRJ M*
MF = MTRJ F*
E2 = E2000
EA = E2000/APC
D4 = D4
FD = FDDI
ES = ESCON
S5 = SMA905
S6 = SMA906

F - Connector 2

ST = ST
SC = SC
SD = SC D*
SA = SC/APC
SB = SC/APC D*
LC = LC
LD = LC D*
LA = LC/APC
LB = LC/APC D*
FC = FC
FA = FC/APC

MU = MU
MA = MU/APC
MJ = MTRJ M*
MF = MTRJ F*
E2 = E2000
EA = E2000/APC
D4 = D4
FD = FDDI
ES = ESCON
S5 = SMA905
S6 = SMA906
PT = Pigtail

G - Total Length

= Length

H - Unit of Measure

F = Feet
M = Meters

M* = Male with pins, F* = Female no pins, D* = With duplex clip

D - Fiber Types

SM = Singlemode (8~9/125)
SB = Singlemode (8~9/125) bend insensitive
MM = Multimode (62.5/125, OM1)
M5 = Multimode (50/125, OM2)
MX = Multimode 10G (50/125, OM3)
MC = Multimode 10G (50/125, OM4)
MV = Multimode 40/100G (50/125, OM5)

◆ Please contact an RLH sales representative for cable/connector types not listed and for pricing/delivery information

DATA SHEETwww.fiberopticlink.com**Contact**

By Mail:	Att: Sales RLH Industries, Inc. 936 N. Main St. Orange, CA 92867
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By Phone: Sales / Service Mon - Fri, 6am - 6pm, PST	Local	714-532-1672
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Tech Support

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