Keyed LC Connector Solution

A LANscape® Solutions Product

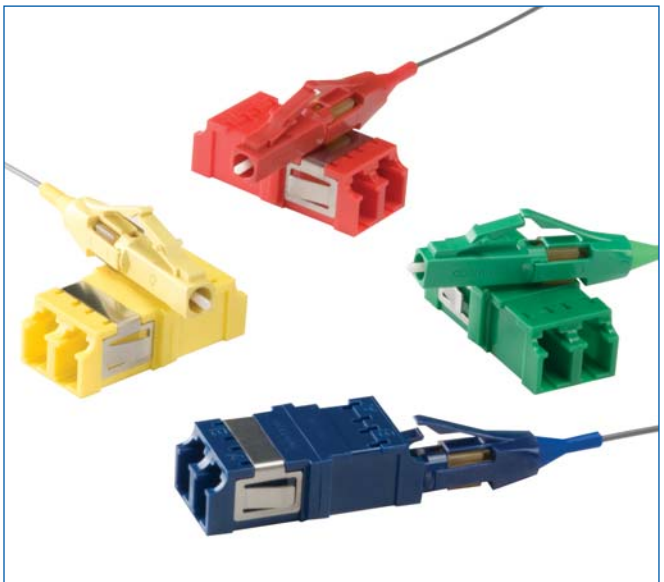
features and benefits |

Eight color-coded mechanical key positions	Prevents mismatch of networks
Meets TIA/EIA-568-B requirements	Optimum optical performance
Keyed connectors and adapters	Front and rear security in network panel
Full solution availability	Various network applications

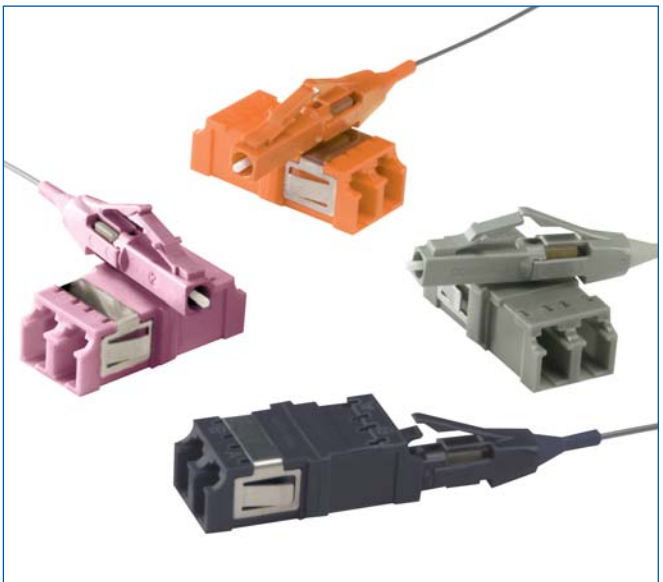
Corning Cable Systems Keyed LC Connector Solution offers mechanical network security for organizations desiring to segregate networks due to privacy or security concerns. Utilizing the LC small-form-factor (SFF) format for optical fiber cabling, the keyed LC solution provides physical separation for up to eight networks, applications or organizations. Eight color-coded key combinations prevent inadvertent or unauthorized access to networks and provide fast and easy network identification. Keyed connectors on the front and back of the patch panel area are used to match access rights to the proper network. The keyed features cannot be duplicated with standard LC components, thereby preventing violation of network security. The SFF LC connector allows high-density deployment in less space than SC or ST® Compatible Connectors and supports up to 288 fibers in a 4U rack-mountable housing.

The keyed LC connector solution is available in single-mode, 62.5 µm multimode, standard 50 µm and laser-optimized 50 µm multimode. Ideal for research labs and secure government facilities, a full solution is

(continued)



Keyed LC Connectors | Photo LAN758



Keyed LC Connectors | Photo LAN1289

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available, from factory-installed keyed LC connectors for assemblies and Plug & Play™ Universal Systems modules, to field-installable UniCam® Connectors and anaerobic keyed LC connectors, to adapters loaded into standard LANscape® Solutions panels and modules.

UniCam® Connector

- No epoxy, no polish
- No need for electrical power for ovens or lights
- Quick installation: less than one minute per connector
- 100 percent factory tested for insertion loss (0.1 dB insertion loss)
- Fast termination, high installation yields and no consumables means lowest cost
- Factory-polished end-face for consistent optical performance and factory-built jumper quality
- Continuity test set gives immediate go/no-go feedback of successful termination
- Utilizes standard UniCam® Pretium™ Connector Tool Kit for installation so no additional materials required
- Reliable, proven technology with more than 45 million units sold since 1993

Anaerobic Connector

- Fast cure anaerobic adhesive; does not require electrical power for lamps or ovens
- Hand polish; does not require polishing machine
- Reduced installation time; single-strike crimp solution ensures less than three minutes assembled and polished
- Average 0.2 dB insertion loss with physical contact polish

Cable Assemblies

- Complete line of single-fiber jumpers to high-fiber-count assemblies available with keyed LC to all connector types
- State-of-the-art manufacturing process ensures consistent performance and tightly controlled end-face geometry
- 100 percent factory tested

CCH Adapter Panels

- Universal approach is used; one panel size fits in all standard LANscape® Solutions hardware (for example, CCH, PCH, CCS, WCH, ICH, EDC, FZB)
- Adapters are keyed on both sides to provide total network security

CCH Pigtail Modules

- Compatible with PCH and CCH LANscape Solutions rack-mountable housing
- Offers greater protection to optical cables and connectors
- Provided with factory-installed and -tested 3 m pigtails
- Available with MIC® Cable or ribbon pigtail types

Plug & Play™ Universal Systems Modules

- Factory-terminated solutions for improved system performance, component compatibility and consistent quality
- Universal and classic wired modules enable fast and simple networking moves, adds and changes without polarity concerns associated with special polarity-compensating components

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ordering information |

UniCam® Connectors

95 - ☐☐☐ - K ☐
|1 |2

|1

Select fiber type.
000 = 62.5 µm
050 = 50 µm
05X = Laser-optimized 50 µm
200 = Single-mode
See Note 1.

|2

Select keyed LC style.
N = Blue
R = Red
Y = Yellow
G = Green
B = Black
S = Slate
E = Orange
P = Rose

Notes:
1) Also available in Z-PAKs. Add "-Z" to end of part number.

Part Number Example

Part Number	Description
95-05X-KN	Keyed LC UniCam® Connector, laser-optimized 50 µm, blue

Anaerobic-Cure Keyed LC Field-Installable Connectors

95 - ☐☐☐ - 98 - SP - K ☐
|1 |2

|1

Select fiber type.
101 = 62.5 µm
051 = 50 µm
201 = Single-mode

|2

Select keyed LC style.
N = Blue
R = Red
Y = Yellow
G = Green
B = Black
S = Slate
E = Orange
P = Rose

Part Number Example

Part Number	Description
95-101-98-SP-KN	Keyed LC 62.5 µm Multimode Connector, blue

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ordering information | (continued)

Single-Fiber Keyed LC Connector Assemblies

Corning Cable Systems patch cords and high-fiber-count assemblies are ordered using seven easy steps. The steps involve the selection of connector(s), cable and length. The format and steps are listed below.

☐☐☐☐ ☐☐ ☐ ☐☐☐ ☐ ☐☐☐ ☐

|1 |2 |3 |4 |5 |6 |7

|1

Select connector codes (two digits per code).

00 = No connectors (use when ordering a pigtail)

Multimode

39 = SC simplex, ceramic
57 = SC duplex, ceramic
50 = ST® Compatible, ceramic
03 = LC simplex
05 = LC duplex
97 = MT-RJ (no pins)
24 = Keyed LC simplex
26 = Keyed LC duplex

Single-mode

58 = SC UPC simplex
72 = SC UPC duplex
61 = ST Compatible UPC
02 = LC UPC simplex
04 = LC UPC duplex
98 = MT-RJ (no pins)
30 = Keyed LC UPC simplex
33 = Keyed LC UPC duplex

See Note 1.

|2

Select fiber count.

01-96

See Note 2.

|3

Select fiber type.

R = Single-mode
C = 50 µm
S = Laser-optimized 50 µm
K = 62.5 µm

|4

Select cable type.

31Z = Single-fiber 2.0 mm riser
51Z = Zipcord 2.0 mm riser
81Z = MIC® Riser Distribution Cable (2.0 mm legs)
J1Z = Ribbon Interconnect Riser

See Notes 3 and 4.

|5

Select keyed LC connector style.

N = Blue
R = Red
Y = Yellow
G = Green
B = Black
S = Slate
E = Orange
P = Rose

|6

Select assembly length.

001-999

See Note 5.

|7

Select unit of measure.

M = Meters
F = Feet

Notes:

1) Connector codes are based on the type of adapter used at the patch panel and the electronic interface connector. The connector and adapter must be compatible for a correct connection. Always use the lowest code first when constructing the part number.

2) For fiber counts greater than 96, contact Customer Service.

3) Ribbon interconnect cable option is only available for MT-RJ connector assembly combinations.

4) For additional cable options, contact Customer Service.

5) For lengths greater than 999, contact Customer Service.

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ordering information | (continued)

Connector Panels

CCH - CP ☐☐ - K ☐
|1 |2

|1

Select fiber count.
12 = 12 fibers (6 duplex adapters)
24 = 24 fibers (12 duplex adapters)

|2

Select keyed LC duplex adapter style and fiber type.
1 = Blue
5 = Red
9 = Yellow
D = Green
H = Orange
J = Rose
K = Black
L = Slate

Part Number Example

Part Number	Description
CCH-CP12-K9	CCH Connector Panel with 6 keyed LC duplex adapters, yellow, laser-optimized

Adapters

ADP - KDLC - CC ☐ RF - C ☐ S
|1 |2

|1

Select color of adapter.
G = Green
N = Blue
R = Red
Y = Yellow
E = Orange
P = Rose
B = Black
S = Slate

|2

Select fiber type.
S = Single-mode
5 = 50 µm
6 = 62.5 µm
L = Laser-optimized 50 µm

Part Number Example

Part Number	Description
ADP-KDLC-CCYRF-CLS	LC duplex adapter, yellow, laser-optimized 50 µm

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ordering information | (continued)

Pigtailed Module

A standard pigtail length is 3 m (9.842 ft). For lengths other than 3 m, please contact Corning Cable Systems Customer Service at 800-743-2671.

CCH - RM □□ - K □ - P 0 3 □□
|1 |2 |3

|1

Select fiber count.

12 = 12 fibers
24 = 24 fibers

|2

Select keyed LC adapter and fiber type.

1 = Blue
5 = Red
9 = Yellow
D = Green
H = Orange
J = Rose
K = Black
L = Slate

|3

Select cable type.

MIC® Cable Subunit (Standard fiber cable option)

CH = Multimode (50 µm, standard)
KH = Multimode (62.5 µm)
RH = Single-mode
SH = Multimode (50 µm, laser-optimized)

Ribbon fiber

CJ = Multimode (50 µm)
KJ = Multimode (62.5 µm)
RJ = Single-mode
SJ = Multimode (50 µm, laser-optimized)

Part Number Example

Part Number	Description
CCH-RM12-K1-P03KH	CCH 12-Fiber Pigtail Module with 6 keyed LC duplex blue adapters and a 3 m long MIC® Cable subunit 62.5 µm pigtail

ordering information | (continued)

Plug & Play™ Keyed LC Modules

CCH - ☐ M ☐☐ - ☐☐ - ☐☐ ☐ - ☐☐
|1 |2 |3 |4 |5 |6

|1

Select module type.

U = Universal
R = Classic
See Note 1.

|2

Select fiber count.

12 = 12 fibers
24 = 24 fibers

|3

Select connector code.

26 = Keyed LC multimode, duplex
33 = Keyed LC single-mode, duplex

|4

Select MTP® Connector.

70 = Multimode
89 = Single-mode

|5

Select fiber type.

K = Multimode (62.5 µm)
C = Multimode (50 µm)
S = Multimode (50 µm, laser-optimized)
R = Single-mode

|6

Select keyed LC style.

BL = Blue
RD = Red
YL = Yellow
GR = Green
OR = Orange
RO = Rose
BK = Black
SL = Slate

Notes:
1) Default is Universal. Please note that Classic and Universal components are not compatible with each other.

Part Number Example

Part Number	Description
CCH-UM24-26-70C-YL	24-Fiber, Standard 50 µm Multimode Module with 12 yellow keyed LC duplex adapters

ordering information | (continued)

Test Jumper Kits

Test jumper kit with two SC to keyed LC test jumpers, one LC keyed to LC keyed test jumper, and two LC keyed adapters. Select color code and fiber type.

TJK - SC - KLC - ☐ - ☐
|1 |2

|1

Select keyed LC style.

G = Green
N = Blue
R = Red
Y = Yellow
E = Orange
P = Rose
B = Black
S = Slate

|2

Select jumper type.

E = Single-mode
K = 62.5 µm
C = 50 µm standard
S = Laser-optimized 50 µm

Part Number Example

Part Number	Description
TJK-SC-KLC-G-K	Keyed LC, green, 62.5 µm multimode test jumper kit

ordering information | (continued)

Part Number	Description
Accessories	
TKT-UNICAM-PFC	UniCam® Pretium™ Tool Kit, includes UniCam Pretium Installation Tool, Pretium Flat Cleaver and all required fiber preparation and cleaning supplies
TKT-ANAEROBIC2	Installation Kit for anaerobic-cure connectors, includes consumables for 500 connectors (keyed LC puck must be ordered separately)
2104495-01	Hand Puck, LC, keyed
3201032-01	Crimp Tool for LC heat-cure and anaerobic connectors
TRIGGER-BP-D	Duplex Trigger with anti-snag feature for LC connectors (100/pack) – Anaerobic only

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