

ALTOS® Cable with FastAccess™ Technology

A LANscape®
Solutions Product

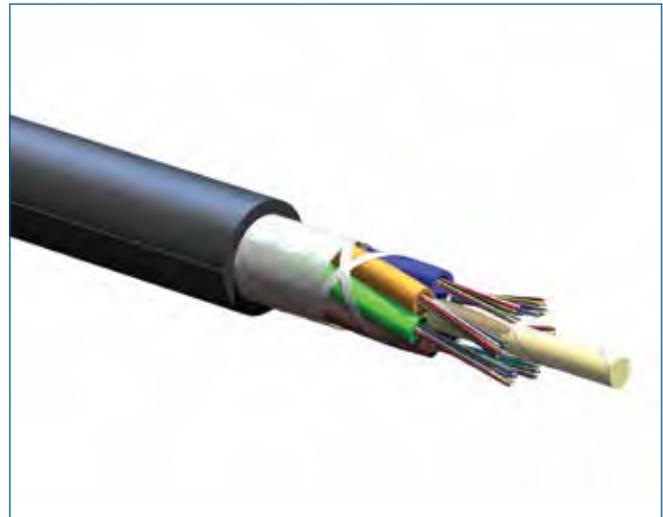
features and benefits |

Contains FastAccess Technology	Innovative cable jacket feature reduces cable end access time by up to (will vary by installer) 50 percent and reduces overall risk of inadvertent fiber damage as well as risk to installers from sharp cable access tools
Medium-density polyethylene jacket	Rugged and durable, while providing superior protection against UV radiation, fungus, abrasion and other environmental factors.
Fully waterblocked loose tube all-dielectric gel-free design	Simple access and no clean up
Industry-standard performance	Meets the requirements of Telcordia GR-20, Issue 3 and ICEA S-87-640
Available in 62.5 µm, 50 µm, single-mode and hybrid versions	Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet

Corning Cable Systems ALTOS® Cable with FastAccess™ Technology is an all-dielectric gel-free cable designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The innovative FastAccess Technology combined with the all-dielectric gel-free loose tube design simplifies removal of the cable jacket reducing cable end access time by up to 50 percent. Equally important is the overall reduction in risk of inadvertent fiber damage and risk to installers from sharp cable access tools. The cable is fully waterblocked using craft-friendly, water-swellable materials, which means no clean up is required. The flexible buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy midspan access. The all-dielectric gel-free cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable, and easy to handle. A variety of fiber types are available including 62.5 µm, 50 µm, single-mode and hybrid versions, as well as fibers with Gigabit Ethernet and 10 Gigabit Ethernet performance.



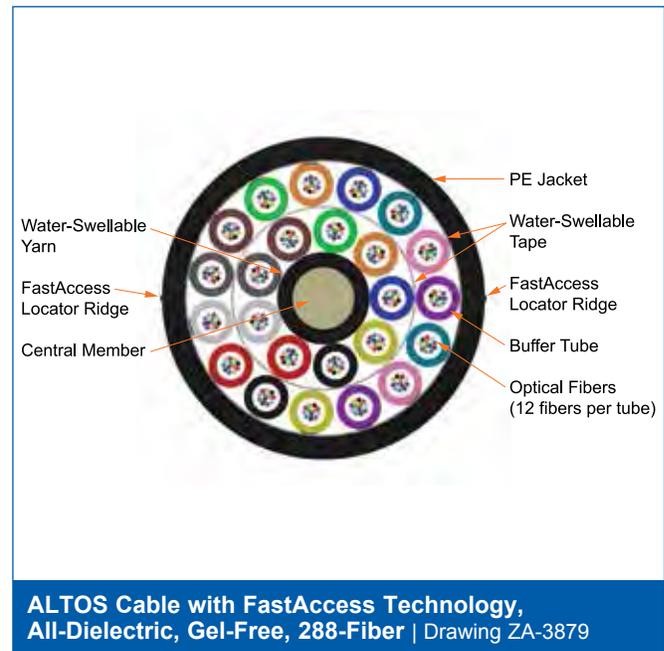
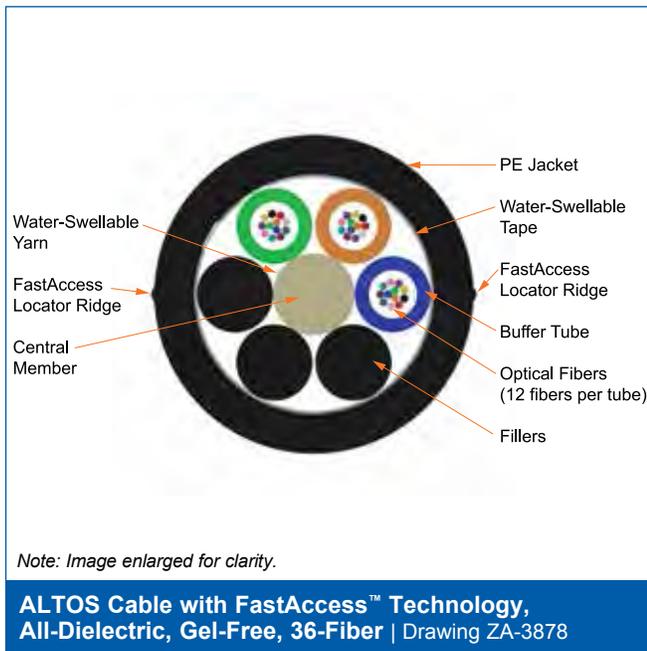
ALTOS Cable with FastAccess Technology, All-Dielectric, Gel-Free | Photo LAN2866



ALTOS Cable with FastAccess Technology, All-Dielectric, Gel-Free | Photo LAN2962

ALTOS® Cable with FastAccess™ Technology

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specifications |

Maximum Tensile Loads Short-Term: 2700 N (600 lbf)
 Long-Term: 890 N (200 lbf)

Temperatures Storage: -40° to +70°C (-40° to +158°F)
 Installation: -30° to +70°C (-22° to +158°F)
 Operation: -40° to +70°C (-40° to +158°F)

Common Installations Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770

Design and Test Criteria ANSI/ICEA S-87-640

Corning Cable Systems recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Fiber Count	Maximum Fibers per Tube	Number of Tube Positions	Number of Active Tubes	Central Member	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
2-72	12	6	1-6	Dielectric	73 (49)	10.5 (0.41)	15.8 (6.2)	10.5 (4.1)
73-96	12	8	7-8	Dielectric	98 (66)	12.2 (0.48)	18.3 (7.2)	12.2 (4.8)
97-144	12	12	9-12	Dielectric	162 (109)	15.8 (0.62)	23.7 (9.3)	15.8 (6.2)
145-216	12	18	13-18	Dielectric	147 (99)	16.0 (0.63)	24.0 (9.4)	16.0 (6.3)
217-288	12	24	19-24	Dielectric	196 (131)	18.2 (0.72)	27.3 (10.7)	18.2 (7.2)

transmission performance |

Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode*
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3	OM4	OM4	OS2
Fiber Code	K	T	T	T	T	E
Performance Option Code	30	31	80	90	91	01
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.4/0.4/0.3
Minimum Over Filled Launch (OFL) Bandwidth (MHz•km)	200/500	700/500	1500/500	3500/500	3500/500	- / - / -
Minimum Effective Modal Bandwidth (EMB) (MHz•km)	220/ -	950/ -	2000/ -	4700/ -	5350/ -	- / - / -
Serial 1 Gigabit Ethernet Distance (m)	300/550	750/600	1000/600	1000/600	1000/600	5000 / - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	150/ -	300/ -	550† / -	600‡ / -	10000/ - /40000

* ITU 652.D compliant.

† Assumes 1.0 dB maximum total connector/splice loss.

‡ Assumes 0.7 dB maximum total connector/splice loss.

Notes:

- 1) Improved attenuation and bandwidth options available.
- 2) Bend-insensitive single-mode fibers available on request.
- 3) Contact Corning Cable Systems Customer Service Representative for additional information.

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ordering information | Contact Customer Service at 800-743-2671 for non-standard offerings.

0	1	2	K	U	4	-	T	4	7	3	0	D	2	0
1	2	3	4	5	6		7	8	9	10	11	12	13	14

|1-3

Select fiber count.

Standard offerings:

012	048	096	216
024	060	144	288
036	072	192	

|4

Select fiber type
(see Transmission
Performance table).

|5 / 12

Defines cable type.

U/D = ALTOS®
Gel-free Cable

|6

Defines outer jacket.

4 = All-dielectric

|7

Defines fiber placement.

T = 12 fibers/buffer tube
(standard)

|8

Defines length markings.

4 = Markings in feet
(standard)

|9

Defines special jacket
feature.

7 = ALTOS Cable with
FastAccess™ Technology

|10-11

Select performance
option code (see
Transmission
Performance table).

|13-14

Defines special
requirements.

20 = No special
requirements

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Closet Connector Housings (CCH)

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CCH Pigtailed Cassettes

CCH Pigtailed Splice Cassettes enable faster field splicing and easy modular management of connectorization within the housing.

The CCH Pigtailed Splice Cassettes are pre-loaded and pre-routed for quick fusion splicing of either individual or ribbon fiber pigtails, utilizing the same space-saving platform as the standard CCH Splice Cassette.

The pre-routed Pigtailed Cassettes reduce field labor by streamlining the features and components of the pigtail cassette to allow for efficiencies in the field. They are loaded with a pigtail assembly and a CCH Connector Panel. The pigtails have 900 μm protection at the connector panel for added durability, routed into the splice tray layer, where it transitions to either 250 μm fiber or bare ribbon (depending on the splicing method desired) for ease of splicing.

The Pigtailed Cassette allows the elimination of individual splice trays or separate splice housings, as well as allowing splicing to be done away from the rack housing in a suitable workspace as needed. The modular design makes it easy to access the fiber in an individual cassette without disturbing the other fibers in the housing.

Each cassette is shipped with the CCH Connector Panel and choice of pigtails, 1 rail for use with CCH-01U/2U/3U housings, and 2 rails used with CCH-04U housings. Grommets and cable ties for additional strain relief and protective tubing for incoming cable are also included. Splicing cassettes ship with the appropriate number and type of fiber heat-shrink splice protectors.



CCH Pigtailed Cassette | Photo LAN2741



CCH Pigtailed Cassette | Photo LAN2593

Closet Connector Housings (CCH)

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specifications and ordering information |

Pigtailed Splice Cassettes (CCH-CS)

CCH Splice Cassette (CCH-CS) loaded with CCH panel and factory-terminated pigtails. Available with ribbon or single-fiber splicing configurations. Includes appropriate number and type of heat shrinks and protective tubing depending on fiber count and cable type. See matrix on the next page to build your part number.

Multimode

Loss 0.35 dB typical (all fibers) at 1300 nm, 0.5 dB max*

Single-Mode

Loss 0.15 dB typical (all fibers) at 1310 nm, 0.4 dB max*

The following 6 products are in the core CCH product set and are stocked at our distributors for immediate availability.

Part Number	Description	Type
CCH-CS12-59-P00RE	12 F, SC, UPC, Duplex, Single-mode (OS2), Single-fiber (250 µm)	Rack-Mountable Hardware
CCH-CS12-6T-P00RE	12 F, ST® Compatible, UPC, Simplex, Single-mode (OS2), Single-fiber (250 µm)	Rack-Mountable Hardware
CCH-CS12-A9-P00RE	12 F, LC, UPC, Duplex, Single-mode (OS2), Single-fiber (250 µm)	Rack-Mountable Hardware
CCH-CS24-A9-P00RE	24 F, LC, UPC, Duplex, Single-mode (OS2), Single-fiber (250 µm)	Rack-Mountable Hardware
CCH-CS12-E4-P00TE	12 F, LC, PC, Duplex, 50 µm (OM3), Single-fiber (250 µm)	Rack-Mountable Hardware
CCH-CS24-E4-P00TE	24 F, LC, PC, Duplex, 50 µm (OM3), Single-fiber (250 µm)	Rack-Mountable Hardware

	Dimensions (H x W x D) cm (in)	Shipping Weight kg (lb)
CCH-CS <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> - P00 <input type="checkbox"/> <input type="checkbox"/>	16.2 x 3.5 x 20 (6.4 x 1.4 x 7.9)	0.75 (1.5)

Closet Connector Housings (CCH)

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ordering information | (continued)

CCH Pigtailed Splice Cassettes

CCH - CS	<input type="text" value="1"/>	<input type="text" value="2"/>	-	<input type="text" value="5"/>	<input type="text" value="T"/>	-	P00	<input type="text" value="K"/>	<input type="text" value="E"/>
	1			2				3	4

|1
Select fiber count.
06 = 6 fibers
08 = 8 fibers
12 = 12 fibers
16 = 16 fibers
24 = 24 fibers
See Note 1

|3
Select fiber type.
K = 625 µm multimode (OM1)
B = 50 µm multimode (OM2)
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
R = Single-mode (OS2)

Note:
1) Fiber count for desired adapter is available in table on following page.

|2
Select adapter code (see Adapter/Connector Code Options table on following page).

|4
Select splicing type.
E = Single fiber splicing
J = Ribbon splicing (only for fiber counts of 12 or 24)

Part Number	Description
Part Number Examples	
CCH-CS12-59-P00RE	Closet Connector Housing Pigtail Cassette with 6 SC duplex single-mode adapters, with 12 single-mode SC pigtails routed inside the cassette for single-fiber splicing
CCH-CS24-E4-P00TE	Closet Connector Housing Pigtail Cassette with 12 LC duplex aqua OM3/4 adapters, with 24 OM3 LC pigtails routed inside the cassette for single-fiber splicing

Closet Connector Housings (CCH)

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adapter/connector code options |

Adapter Code	Fiber Type	Alignment	Housing	Fiber/Adapter	Available Fiber/Panel Counts					
					6	8	12	16	24	
LC Duplex										
A8	62.5 µm multimode (OM1)	Ceramic	Composite	2	X	X	X	X	X	
D3	50 µm multimode (OM2)	Ceramic	Composite	2	X	X	X	X	X	
E4	50 µm multimode (OM3/4)	Ceramic	Composite	2	X	X	X	X	X	
A9	Single-mode, UPC (OS2)	Ceramic	Composite	2	X	X	X	X	X	
B3	Single-mode, APC (OS2)	Ceramic	Composite	2	X	X	X	X	X	
SC Duplex										
91	62.5 µm multimode (OM1)	Metal	Composite	2	X	X	X			
G7	50 µm multimode (OM2)	Ceramic	Composite	2	X	X	X			
E7	50 µm multimode (OM3/4)	Ceramic	Composite	2	X	X	X			
59	Single-mode, UPC (OS2)	Ceramic	Composite	2	X	X	X			
D9	Single-mode, APC (OS2)	Ceramic	Composite	2	X	X	X			
SC										
56	62.5 µm multimode (OM1)	Metal	Composite	1	X	X	X			
G6	50 µm multimode (OM2)	Ceramic	Composite	1	X	X	X			
E6	50 µm multimode (OM3/4)	Ceramic	Composite	1	X	X	X			
3C	Single-mode, UPC (OS2)	Ceramic	Composite	1	X	X	X			
6C	Single-mode, APC (OS2)	Ceramic	Composite	1	X	X	X			
ST® Compatible Connector										
5T	62.5 µm multimode (OM1)	Ceramic	Metal	1	X	X	X			
G5	50 µm multimode (OM2)	Ceramic	Metal	1	X	X	X			
H3	50 µm multimode (OM3/4)	Ceramic	Metal	1	X	X	X			
6T	Single-mode, UPC (OS2)	Ceramic	Metal	1	X	X	X			
FC										
11	Single-mode, UPC (OS2)	Metal	Metal	1	X	X	X			
21	Single-mode, APC (OS2)	Metal	Metal	1	X	X	X			
MT-RJ, pinned										
97	62.5 µm multimode (OM1)	N/A	Composite	2		X	X	X	X	
G1	50 µm multimode (OM2)	N/A	Composite	2		X	X	X	X	
E1	50 µm multimode (OM3/4)	N/A	Composite	2		X	X	X	X	
98	Single-mode, UPC (OS2)	N/A	Composite	2		X	X	X	X	
Fiber Type		Housing Color								
62.5 µm multimode (OM1)		Beige								
50 µm multimode (OM2)		Black								
50 µm multimode (OM3/4)		Aqua								
Single-mode, UPC (OS2)		Blue								
Single-mode, APC		Green								

Note: For keyed LC ordering information, please refer to LAN-701-EN.

Wall-Mountable Connector Housing (WCH)

Holds 2 CCH connector panels/cassettes

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Corning wall-mountable connector housing (WCH) product family offers enhanced innovative features that make installation and troubleshooting of fiber optic connectivity faster, easier and more cost-effective. From fiber and cable routing and strain-relief to port labeling and termination, these housings reduce the risk of error that can disrupt networks.

The WCH housing provides interconnect or cross-connect capabilities between the outside plant, riser or distribution cables and the opto-electronics. With the WCH-02P (two panels, cassettes or modules), WCH-04P (four panels, cassettes or modules), and WCH-06P (six panels, cassettes or modules) capacity, the rugged metal housings can be wall mounted in main cross-connects, telecommunication rooms or other areas where space is a premium. Units accept standard closet connector housing (CCH) cassettes, connector panels and modules for a variety of connectivity options.

The WCH product family features a clear, transparent jumper side door for easy visibility during installation and testing, easy-to-use recessed mounting holes with mounting screws, documentation labels, removable strain-relief brackets, routing clips and guides, improved latches, as well as a preinstalled bubble level for simple and accurate installation. All housings also have field-installable lock kits available for both cable entry and jumper side doors.



Features and Benefits

Interconnect and cross-connect capabilities

Ideal for field splicing and connectorization

Accepts CCH cassettes, panels and modules

Variety of preterminated and field-installable capabilities

Lockable, transparent jumper side door

Visibility and ease of access for installation, testing and troubleshooting

Removable strain-relief bracket

Flexibility for installation and moves, adds and changes (MACs)

Segregated cable and fiber slack routing

Fiber protection

Wall-Mountable Connector Housing (WCH)

Holds 2 CCH connector panels/cassettes

CORNING

Standards

RoHS

Free of hazardous substances according to RoHS 2002/95/EG

Specifications

General Specifications	
Application	Enterprise Networks
Mounting type	Wall-Mountable
Product Type	Wall-Mountable Hardware

Design - Hardware	
Housing Color	Black
Housing Type	WCH
Locking Availability	Provider door and jumper door
Number of Panels/Cassettes per Housing	2
Panel or Cassette Type	CCH
Splice Tray/Splice Cassette Options	Up to 2 CCH cassettes
Maximum Fiber Capacity	48

Mechanical Characteristics	
Dimensions (HxWxD)	18.8 cm x 42.2 cm x 10.7 cm (7.4 in x 16.1 in x 4.2 in)

Ordering Information

Part Number	WCH-02P
Product Description	Wall-Mountable Closet Housing (WCH), holds 2 CCH connector panels/cassettes
EAN Code	4042673249221

Wall-Mountable Connector Housing (WCH)

Holds 2 CCH connector panels/cassettes



Shipping Information

Units per Delivery	1/1
Shipping Weight	3.6 kg (8.0 lb)
Package Contents	Housing; installation guide; 2 blank panels; 2 panel ID labels; hardware kit; internal strain-relief bracket; intermediate strain-relief bracket; 4 x 4-in tie wraps; 4 x 8-in tie wraps; dust brushes; 4 mounting screws; bubble level



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