

LightWISE®

VERSATILE INTERCONNECT SOLUTIONS



CABLCON
AN IEWC COMPANY

ADVANCING A CONNECTED WORLD

ISO 9001 & TL 9000 CERTIFIED

www.cablcon.com

The VIC is the first product in CABLCON's LightWISE® family of high-density fiber optic solutions. It was engineered to provide a logical pathway toward emerging Very Small Form Factor (VSFF) connector solutions like the MDC, SN and CS, while also supporting current LC connector requirements.

Boasting uncomplicated installation and a modest 5" x 7" x 1.5" physical size, the VIC naturally lends itself to a wide range of applications. It can be installed in a traditional rack-mount setting, wall-mounted, or deployed in the zero-u space of a cabinet.

A number of subtle features set the VIC family apart from similar solutions. Color-coded adapters allow users to readily identify ports and match them with the fiber ports or strands at the rear of the VIC. A single QR code not only provides an electronic template for port identification, but also a schematic drawing for greater clarity in mapping your network.

For more information, please visit cablcon.com or call us at (800) 969-9220.

We Also Manufacture Custom Fiber & Copper Solutions That Advance a Connected World

Cablcon is an ISO 9001 and TL 9000-certified manufacturer of custom broadband cabling solutions. Formed in 1986 as a wire and cable distributor, the company has evolved to become a top producer of high quality copper and fiber optic assemblies, fiber management solutions and power cable products. Our exceptional service and delivery alleviate challenges associated with

upgrading and deploying networks that support today's escalating bandwidth requirements. Our team is focused on making consistent, reliable, high-quality products on a quick-turn basis at each of our three North American production facilities. In 2021, Cablcon became a division of IEWC, a global, employee-owned distributor of wire, cable, and wire management products.





LightWISE® by CABLCON

Versatile Interconnect Solutions

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VIC Enclosure

Loading VICs into a rack or cabinet is easy with the LightWISE® VIC Enclosure. The VIC Enclosure accommodates up to three VIC modules and provides excellent accessibility in both the front and the rear of the panel via a two-way sliding tray. The 1RU footprint complements the VIC's density benefits and fiber management is easy with the included hook and loop strips. A simple thumbscrew effectively holds each VIC in place after installation.

APPLICATIONS

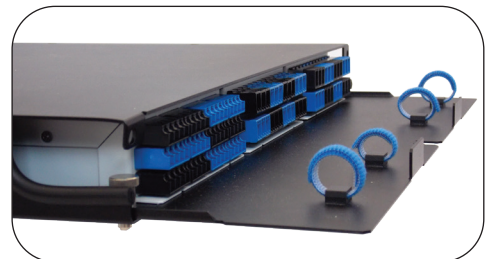
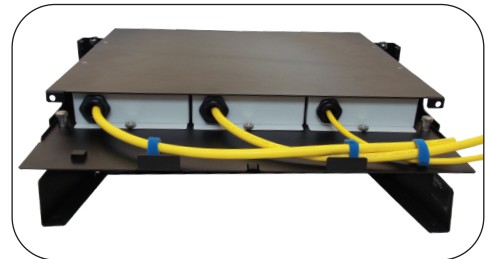
- Rack-mount Interconnect and Cross Connect
- Data Centers, Central Offices, Mobile Edge Computing
- Passive Optical Networks (PONs), Fiber to the Office (FTTO)

FEATURES

- Accepts up to three Versatile Interconnect (VIC) modules
- Two-way drawer for access to both the front and rear of the VIC
- Simple, effective cable routing
- Easy installation onto any 19" or 23" rack
- Removable front and rear doors reduce interference with other rack equipment

PART NUMBER

- VIC-200000



Cablcon has expanded the reach and range of applications supported by its LightWISE™ VIC family of fiber optic interconnect solutions by introducing the OptiCLAW™ WMZ.

The OptiCLAW™ WMZ is designed for wall-mount and zero-u applications. Its patent-pending OptiCLAW™ fastener provides a fast, secure installation and accepts all LightWISE™ VIC panels.

Whether you are adding capacity to a rack that is already full, discretely running fiber connectivity to a new floor of a building, or seeking ways to bring higher fiber counts to colocation space, the OptiCLAW™ WMZ provides a reliable, space-conscious solution.

APPLICATIONS

- Data Center Meet-Me Rooms and Telecom Rooms
- Mobile Edge and Remote Broadband
- Passive Optical Networks (PONs), Fiber to the Office (FTTO)

FEATURES

- Robust mechanism for securing and accessing any VIC panel
- Mounting holes for wall-mount or zero-u installation
- Small footprint: 9 1/2" L x 7" W x 2 7/8" H
- Can be installed vertically (portrait) or horizontally (landscape)
- Smoked plexiglass removable front door

PART NUMBER

- VIC-110000



LC VIC

As fiber optic utilization has continued to grow, so has the need for user-friendly port density. Cablcon's LightWISE® LC VIC emerged as a practical, effective solution for many ICT applications. Short for 'versatile interconnect,' the VIC was designed to provide patch panel functionality wherever it is needed. Its 5" x 7.25" x 1.5" footprint make the LC VIC an ideal product both inside and outside traditional rack space.

Optimized for the push-pull boot functionality in Cablcon's Field-Reversible Uniboot LC jumpers, the LightWISE® LC VIC provides outstanding density, easy cable management and greater accessibility. The rear of the VIC is available pre-loaded with your choice of MPO/MTP ports or with a bend-tolerant collapsible ribbon or micro breakout cable stub.

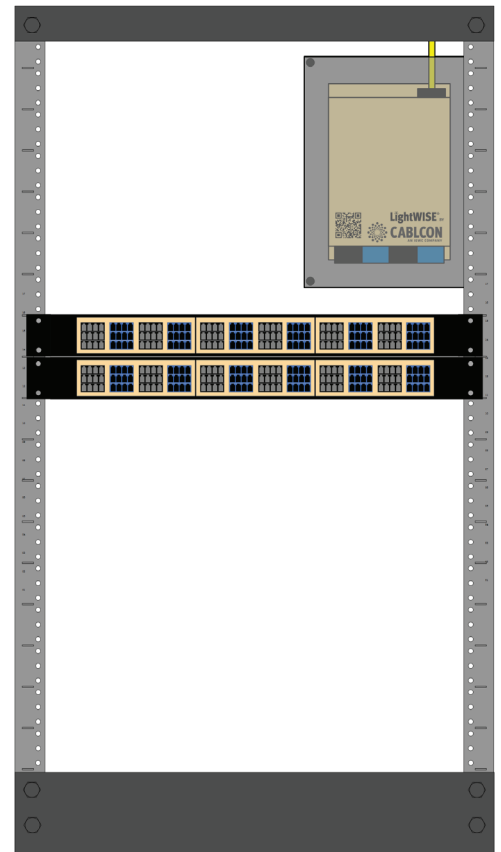
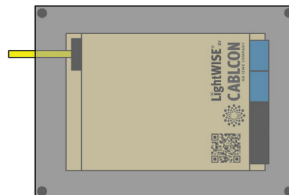


APPLICATIONS

- Rack-mount, Wall-mount, Zero U Vertical-Mount
- Data Centers, Central Offices, Mobile Edge Computing
- High-density cross-connects
- Passive Optical Networks (PONs), Fiber to the Office (FTTO)

FEATURES

- 48 shuttered LC ports on the front, now spaced to better accommodate tabbed and field-terminated LCDX connectors
- Alternating colored adapter groupings for easier port identification
- Pre-wired with your choice of rear MPO adapters or low-profile backbone cable
- Small footprint for easy installation in a multitude of settings
- QR Code provides access to port identification templates that can be stored on your network
- RoHS, REACH-compliant. CPR-rated cables now available upon request.



SPECIFICATIONS

CONNECTOR	IL MAX (DB)	RL MAX (DB)
SM LC	0.25	-55
MM LC	0.25	-30
SM MTP (M)	0.35	-60
MM MTP (M)	0.35	-30

CABLE STYLE	OD	TENSILE	BEND RADIUS
48f Collapsible Ribbon OFNP SM	5.8 mm	150 lbf	1.83"
48f 2mm Micro Breakout OFNP SM	7.5 mm	150 lbf	2.95"
48f 2mm Micro Breakout OFNP OM4	7.5 mm	150 lbf	2.95"

PORT IDENTIFICATION



LC to MTP



LC Cable Stub

LC/MTP VIC PORT CONFIGURATION

1	2	3	4
5	6	7	8
9	10	11	12

RIBBON A

13	14	15	16
17	18	19	20
21	22	23	24

RIBBON B

25	26	27	28
29	30	31	32
33	34	35	36

RIBBON C

37	38	39	40
41	42	43	44
45	46	47	48

RIBBON D

FRONT LC FIBER ASSIGNMENTS

- | | | | |
|-----------|----------|-----------|------------|
| 1. Blue | 4. Brown | 7. Red | 10. Violet |
| 2. Orange | 5. Slate | 8. Black | 11. Rose |
| 3. Green | 6. White | 9. Yellow | 12. Aqua |

A
MPO
TAB UP
FEMALE

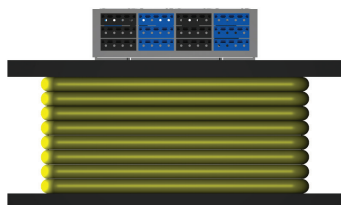
B
MPO
TAB UP
FEMALE

C
MPO
TAB UP
FEMALE

D
MPO
TAB UP
FEMALE

REAR MPO FIBER ASSIGNMENTS

- | | | | |
|-----------|----------|-----------|------------|
| 1. Blue | 4. Brown | 7. Red | 10. Violet |
| 2. Orange | 5. Slate | 8. Black | 11. Rose |
| 3. Green | 6. White | 9. Yellow | 12. Aqua |



Cut Sheet Example
PN: VIC-00401S048-PCF150

VIC-00 01 48-

REAR CONFIGURATION

- 1 - Base-8 MTP/MPO
- 2 - Base-12 MTP/MPO
- 3 - Base 16 MTP/MPO
- 4 - Fiber Pigtail

FIBER TYPE

- S - Singlemode (G.657.A2)
- M - Multimode (OM4)

Optional:
CABLE RATING
P - OFNP
D - OFNR/LSZH

Optional:

CABLE TYPE

- C - Collapsible Ribbon
- M - Micro Breakout Cable

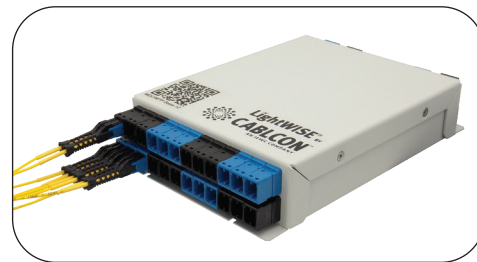
Optional:
UNIT OF MEASURE
F Feet
M Meters

Optional:
LENGTH (3 digits)

MDC VIC

As fiber optic utilization has continued to grow, so has the need for user-friendly port density. Cablcon's LightWISE® MDC VIC emerged as a practical, effective solution for many ICT applications. Short for 'versatile interconnect,' the VIC was designed to provide patch panel functionality wherever it is needed. Its 5" x 7.25" x 1.5" footprint, combined with 48 channel (96 fiber) capacity make the MDC VIC an ideal product both inside and outside traditional rack space.

Working optimally with Cablcon's Cutting EDGE® MDC patch cables, the LightWISE® MDC VIC offers outstanding density, easy cable management and greater accessibility. The rear of the VIC is available pre-loaded with your choice of MPO/MTP ports or with a cable stub using bend-tolerant collapsible ribbon or micro breakout.

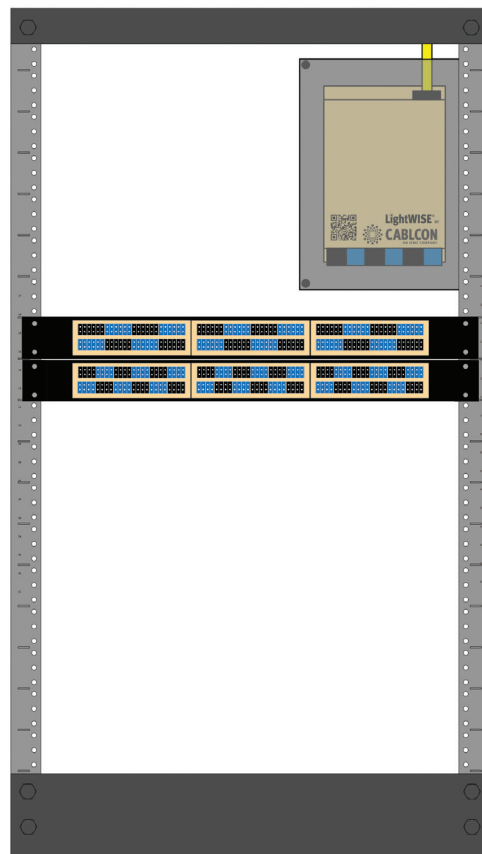
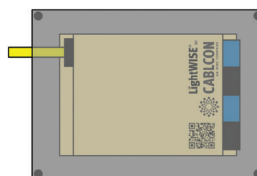


APPLICATIONS

- Rack-mount, Wall-mount, Zero U Vertical-Mount
- Data Centers, Central Offices, Mobile Edge Computing
- High-density cross-connects
- Passive Optical Networks (PONs), Fiber to the Office (FTTO)

FEATURES

- 48 MDC ports on the front, totaling 96 fibers
- Alternating colored adapter groupings for easier port identification
- Pre-wired with your choice of rear MPO adapters or low-profile backbone cable
- Small footprint for easy installation in a multitude of settings
- QR Code provides access to port identification templates that can be stored on your network
- RoHS, REACH-compliant. Collapsible ribbon cables are CPR-rated Cca- s1a, d1, a1



SPECIFICATIONS

CONNECTOR	IL MAX (DB)	RL MAX (DB)
SM MDC	0.25	-55
MM MDC	0.25	-30
SM MTP (M)	0.35	-60
MM MTP (M)	0.35	-30

CABLE STYLE	OD	TENSILE	BEND RADIUS
96f Collapsible Ribbon OFNR SM	7.8 mm	300 lbf	2.46"
96f 2mm Micro Breakout OFNP SM	11.0 mm	150 lbf	4.33"
96f 2mm Micro Breakout OFNP OM4	11.0 mm	150 lbf	4.33"

PORT IDENTIFICATION

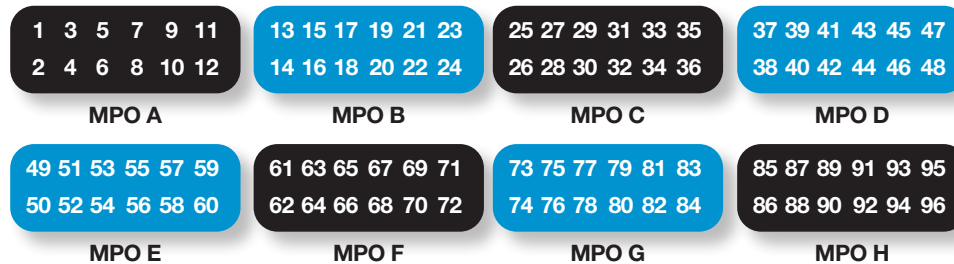


MDC-MTP
Base-12



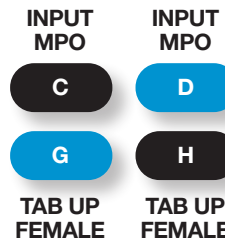
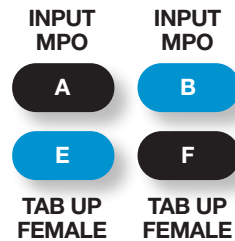
MDC Stub
Base-12

MDC/MTP VIC PORT CONFIGURATION



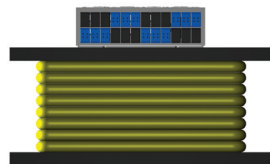
FRONT MDC FIBER ASSIGNMENTS

- | | | | |
|-----------|----------|-----------|------------|
| 1. Blue | 4. Brown | 7. Red | 10. Violet |
| 2. Orange | 5. Slate | 8. Black | 11. Rose |
| 3. Green | 6. White | 9. Yellow | 12. Aqua |



REAR MPO FIBER ASSIGNMENTS (L to R, 1-12)

- | | | | |
|-----------|----------|-----------|------------|
| 1. Blue | 4. Brown | 7. Red | 10. Violet |
| 2. Orange | 5. Slate | 8. Black | 11. Rose |
| 3. Green | 6. White | 9. Yellow | 12. Aqua |



Cut Sheet Example
PN: VIC-00425S096-DCF150

VIC-00 25 096-

REAR CONFIGURATION

- 1 - Base-8 MTP/MPO
- 2 - Base-12 MTP/MPO
- 3 - Base 16 MTP/MPO
- 4 - Fiber Pigtail

Optional:
CABLE RATING
P - OFNP
D - OFNR/LSZH

FIBER TYPE

- S - Singlemode (G.657.A2)
- M - Multimode (OM4)

Optional:

CABLE TYPE

- C - Collapsible Ribbon
- M - Micro Breakout Cable

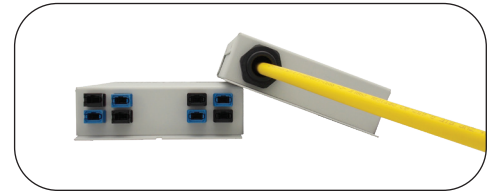
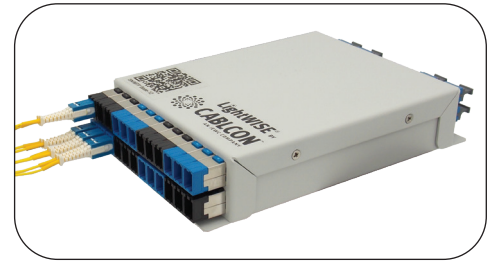
Optional:
UNIT OF MEASURE
F Feet
M Meters

Optional:
LENGTH (3 digits)

SN VIC

As fiber optic utilization has continued to grow, so has the need for user-friendly port density. Cablcon's LightWISE® SN VIC emerged as a practical, effective solution for many ICT applications. Short for 'versatile interconnect,' the VIC was designed to provide patch panel functionality wherever it is needed. Its 5" x 7.25" x 1.5" footprint, combined with 48 channel (96 fiber) capacity make the MDC VIC an ideal product both inside and outside traditional rack space.

Working optimally with Cablcon's Cutting EDGE® SN patch cables, the LightWISE® SN VIC offers outstanding density, easy cable management and greater accessibility. The rear of the VIC is available pre-loaded with your choice of MPO/MTP ports or with a cable stub using bend-tolerant collapsible ribbon or micro breakout.

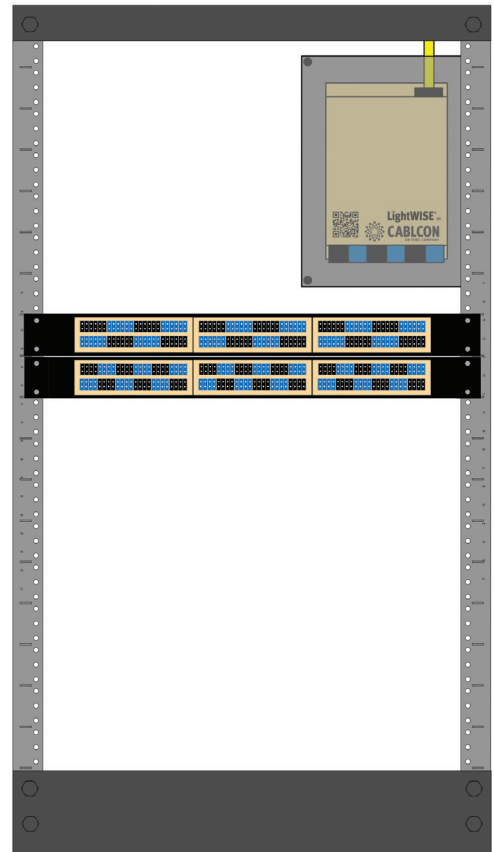
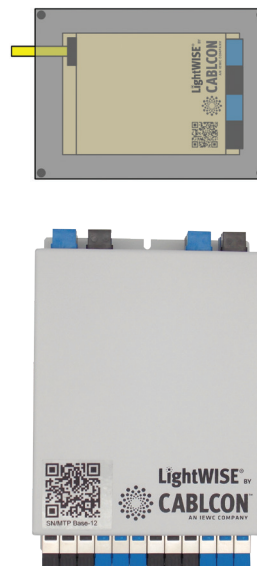


APPLICATIONS

- Rack-mount, Wall-mount, Zero U Vertical-Mount
- Data Centers, Central Offices, Mobile Edge Computing
- High-density cross-connects
- Passive Optical Networks (PONs), Fiber to the Office (FTTO)

FEATURES

- 48 SN ports on the front, totaling 96 fibers
- Alternating colored adapter groupings for easier port identification
- Pre-wired with your choice of rear MTP adapters or low-profile backbone cable
- Small footprint for easy installation in a multitude of settings
- QR Code provides access to port identification templates that can be stored on your network
- RoHS, REACH-compliant. Collapsible ribbon cables are CPR-rated Cca- s1a, d1, a1



SPECIFICATIONS

CONNECTOR	IL MAX (DB)	RL MAX (DB)
SM MDC	0.25	-55
MM MDC	0.25	-30
SM MTP (M)	0.35	-60
MM MTP (M)	0.35	-30

CABLE STYLE	OD	TENSILE	BEND RADIUS
96f Collapsible Ribbon OFNR SM	7.8 mm	300 lbf	2.46"
96f 2mm Micro Breakout OFNP SM	11.0 mm	150 lbf	4.33"
96f 2mm Micro Breakout OFNP OM4	11.0 mm	150 lbf	4.33"

PORT IDENTIFICATION

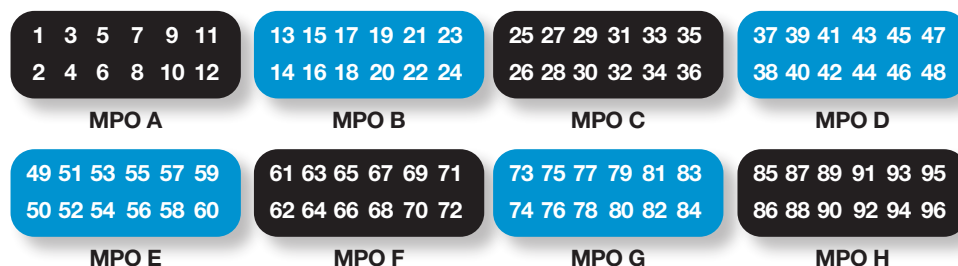


SN-MTP
Base-12



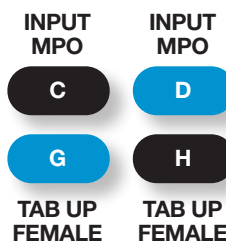
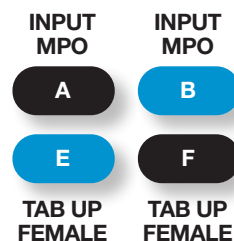
SN Stub
Base-12

SN/MTP VIC PORT CONFIGURATION



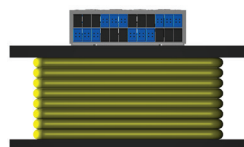
FRONT SN FIBER ASSIGNMENTS

1. Blue
2. Orange
3. Green
4. Brown
5. Slate
6. White
7. Red
8. Black
9. Yellow
10. Violet
11. Rose
12. Aqua



REAR MPO FIBER ASSIGNMENTS (L to R, 1-12)

1. Blue
2. Orange
3. Green
4. Brown
5. Slate
6. White
7. Red
8. Black
9. Yellow
10. Violet
11. Rose
12. Aqua



Cut Sheet Example
PN: VIC-004BBS096-DCF150

VIC-00 BB 096-

REAR CONFIGURATION

- 1 - Base-8 MTP/MPO
- 2 - Base-12 MTP/MPO
- 3 - Base 16 MTP/MPO
- 4 - Fiber Pigtail

FIBER TYPE

- S - Singlemode (G.657.A2)
M - Multimode (OM4)

Optional:
CABLE RATING
P - OFNP
D - OFNR/LSZH

Optional:
CABLE TYPE
C - Collapsible Ribbon
M - Micro Breakout Cable

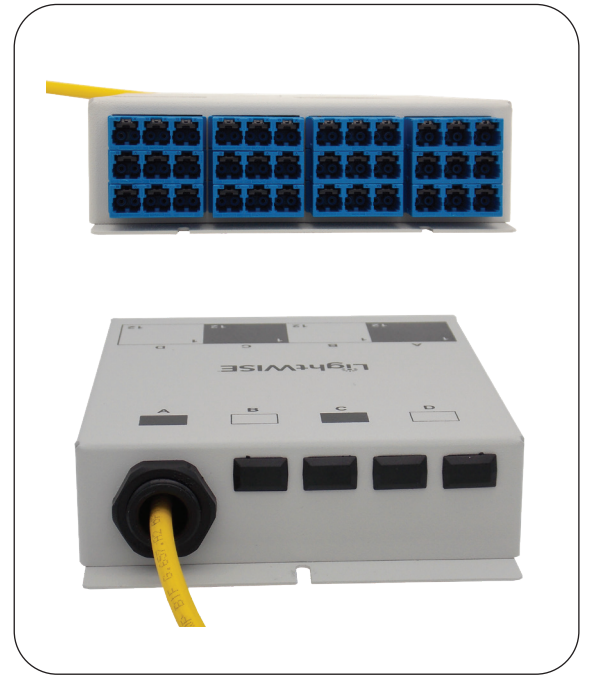
Optional:
UNIT OF MEASURE
F Feet
M Meters

Optional:
LENGTH (3 digits)

CS VIC

As large-scale fiber optic growth continues and the need to optimize rack space has become increasingly important, Cablcon introduced the LightWISE® CS VIC. Short for Versatile Interconnect, the VIC has been specially designed to function as a patch panel in any number of settings, including wall-mount, cable tray-mount and rack-mount installations.

Working optimally with Cablcon's 1.6mm CS jumpers, the LightWISE® CS VIC provides outstanding density without compromising accessibility. This CS connector's flexible push-pull tabs makes front-side access to any of the 36 fiber pairs easy, while the rear side has the option of pre-loaded trunk cables or MTP adapters.



APPLICATIONS

- Rack-mount, Wall-mount, Zero U Vertical-Mount
- Data Centers, Central Offices, Mobile Edge Computing
- High-density cross-connects
- Passive Optical Networks (PONs), Fiber to the Office (FTTO)

FEATURES

- 36 CS front side ports, totaling 72f
- Pre-wired with your choice of rear MPO adapters or low-profile backbone cable
- Small footprint for easy installation in a multitude of settings
- QR Code provides access to port identification templates that can be stored on your network
- RoHS, REACH-compliant. CPR-rated cables now available upon request.

SPECIFICATIONS

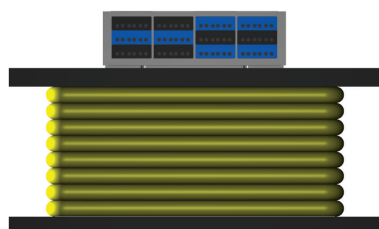
CONNECTOR	IL MAX (DB)	RL MAX (DB)
SM CS	0.25	-55
MM CS	0.25	-30
SM MTP (M)	0.35	-60
MM MTP (M)	0.35	-30

CABLE STYLE	OD	TENSILE	BEND RADIUS
72f Collapsible Ribbon OFNP SM	6.2 mm	150 lbf	1.95"
72f 2mm Micro Breakout OFNP SM	8.4 mm	150 lbf	3.31"
72f 2mm Micro Breakout OFNP OM4	8.4 mm	150 lbf	3.31"

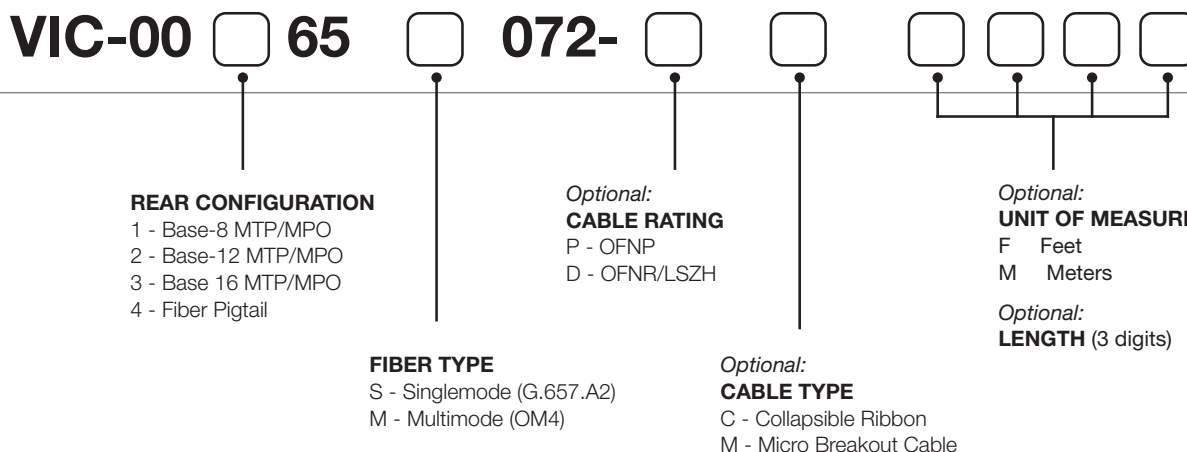
FIBER PORT ASSIGNMENTS

COLUMN 1	COLUMN 2
Ribbon 1 / MTP A (Black)	CS 1: A-Blue, B-Orange CS 2: A-Green, B-Brown CS 3: A-Slate, B-White CS 4: A-Red, B-Black CS 5: A-Yellow, B-Violet CS 6: A-Rose, B-Aqua
Ribbon 2 / MTP B (Blue)	CS 1: A-Blue, B-Orange CS 2: A-Green, B-Brown CS 3: A-Slate, B-White CS 4: A-Red, B-Black CS 5: A-Yellow, B-Violet CS 6: A-Rose, B-Aqua
Ribbon 3 / MTP C (Black)	CS 1: A-Blue, B-Orange CS 2: A-Green, B-Brown CS 3: A-Slate, B-White CS 4: A-Red, B-Black CS 5: A-Yellow, B-Violet CS 6: A-Rose, B-Aqua

COLUMN 3	COLUMN 4
Ribbon 4 / MTP D (Blue)	CS 1: A-Blue, B-Orange CS 2: A-Green, B-Brown CS 3: A-Slate, B-White CS 4: A-Red, B-Black CS 5: A-Yellow, B-Violet CS 6: A-Rose, B-Aqua
Ribbon 5 / MTP E (Black)	CS 1: A-Blue, B-Orange CS 2: A-Green, B-Brown CS 3: A-Slate, B-White CS 4: A-Red, B-Black CS 5: A-Yellow, B-Violet CS 6: A-Rose, B-Aqua
Ribbon 6 / MTP F (Blue)	CS 1: A-Blue, B-Orange CS 2: A-Green, B-Brown CS 3: A-Slate, B-White CS 4: A-Red, B-Black CS 5: A-Yellow, B-Violet CS 6: A-Rose, B-Aqua



Cut Sheet Example
PN: VIC-00465S072-PCF150



MPO VIC

With fiber density increasing throughout data centers and telecommunications, the need to consolidate common routes becomes more apparent. Cablcon's MPO VIC offers a space-efficient method for bringing 288 fibers to a single location.

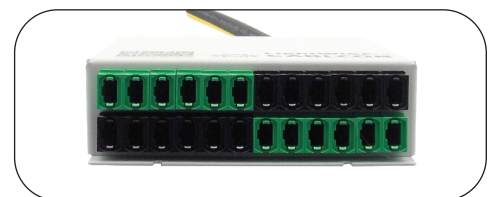
Designed to work in concert with the LightWISE® OptiClaw™ WMZ, the MPO VIC establishes a 'junction box' that can be wall-mounted, rack mounted or installed in the zero-u space on the side of a cabinet. This VIC features 24 MPO ports emerging from the front of the VIC, while a single 288-fiber low-profile collapsible ribbon cable exits the rear and runs to your splice enclosure.

APPLICATIONS

- Data Centers, Central Offices and Mobile Edge Computing
- Wall-mount, Zero U-Mount
- Meet-Me Rooms and Colocation

FEATURES

- 24 front side MPO/MTP Male ports, totaling 288f
- Alternating colored adapter groupings for easier port identification
- Low-profile 288f collapsible ribbon cable exits rear of the VIC
- Easy installation in a multitude of settings
- QR Code provides access to port identification templates that can be stored on your network
- Small footprint: each VIC is 5" wide x 7.25" deep x 1.5" tall
- RoHS, REACH-compliant. Cable CPR rating is Cca-s1a, d1, a1



SPECIFICATIONS

CONNECTOR	IL MAX (DB)	RL MAX (DB)
SM MTP (M)	0.35	-60

CABLE STYLE	OD	TENSILE	BEND RADIUS
288f Collapsible Ribbon OFNR/LSZH SM (G.657.A2)	0.49" (12.5 mm)	600 lbf / 2670 N	8" (204 mm)

MPO VIC PORT CONFIGURATION

1 2 3 4 5 6

TAB UP, RIBBONS 1-6

7 8 9 10 11 12

TAB UP, RIBBONS 7-12

13 14 15 16 17 18

TAB UP, RIBBONS 13-18

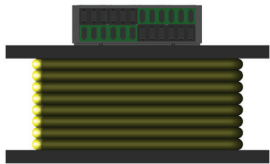
19 20 21 22 23 24

TAB UP, RIBBONS 19-24

PORT IDENTIFICATION

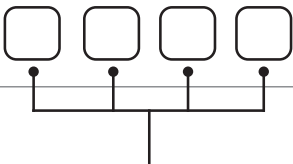


MPO Stub Base-12



Cut Sheet Example
PN: VIC-0048IS288-DIF150

VIC- 00481S288-DI



Optional:
UNIT OF MEASURE
F Feet
M Meters

Optional:
LENGTH (3 digits)

Comprehensive Telecom & Data Center Solutions

LightWISE® Fiber Management

- LightWISE® Rack Mount & Wall Mount Solutions
- Rack & Wall Mount LGX-style Patch Panels
- VFM® Variable Fiber Management Rack Mount, Wall Mount Solutions
- Network Interface Devices OSP & Indoor
- LGX-style Adapter Plates
- Fixed Attenuators
- Fiber Optic Cleaning Products
- Cablcon Web Based Fiber Optic Test Reports

Cutting EDGE® Fiber Assemblies

- Reversible LC Uniboot Jumpers
- CS®, MDC® & SN® Jumpers
- MTP® PRO Elite Jumpers
- Collapsible Ribbon Assemblies
- Micro Breakout Assemblies
- 12f & 24f 3mm Micro Backbone Assemblies
- Standard Patch Cables & Assemblies: ST, SC, SCAPC, LC, LCAPC
- Multi-Fiber Distribution Assemblies
- Standard Ribbon Trunk Assemblies
- 2f & 12f OptiTip® & OptiTap® OSP Assemblies
- Corr2Flex® Non-Metallic Armor OSP Jumpers
- Corr2Flex® Plus+ Spiral Armor OSP Jumpers
- Fiber-in-Conduit (FIC) OSP Assemblies

HybriLite® Hybrid Cable & Assemblies

- Fiber to the Antenna (FTTA)
- In-Building DAS (iDAS)
- Outside Plant DAS (oDAS)

Copper Cable Assemblies

- DAC Cables
- Category 6 & Category 5e Patch Cables
- RF Braid Assemblies
- JMA Wireless® RF Jumpers
- Times Microwave® TFT Assemblies
- RF Cable & Connectors
- Cablcon Web Based RF Test Reports

Power & Ground Solutions

- RG Flex® List 2, List 3 & List 4 DC Power Cable
- Power & Ground Installation Kits
- Low Inductance Remote Radio Head (RRH) Cable
- Flex-DTA® Cable
- Burndy Lugs & Hardware

Supported Topologies

- Data Center
- Telecom Equipment Offices
- Mobile EDGE Computing (MEC)
- Fiber to the Antenna (FTTA)
- Small Cell – 4G/5G/DAS

The Cablcon Advantage

Cablcon is a unique partner; we offer custom solutions that meet your specific needs while delivering industry leading service.

- Innovative problem solvers — Begin with the end in mind
- Soft-cost removal through speed of deployment solutions
- Fixed-cost removal through high-density product portfolio
- Rapid prototype design from concept to First Article submission
- Redundant US-based manufacturing with additional facilities in MX
- Agile quick-turn manufacturing
- Robust Quality Management System (QMS)
- 99.98% Manufactured VAR product delivered defect free over the last two years
- On-time delivery 96.5%+ as reported to TIA Forum
- Timely root cause analysis and resolution if needed



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ISO 9001 & TL 9000 certified manufacturer



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