

EXPRESS
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PRODUCT CATALOG 2018

EPCT
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DATA CENTER

Category 8 Channel

EXPRESS NETWORKING SOLUTIONS
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EPCT CORPORATION

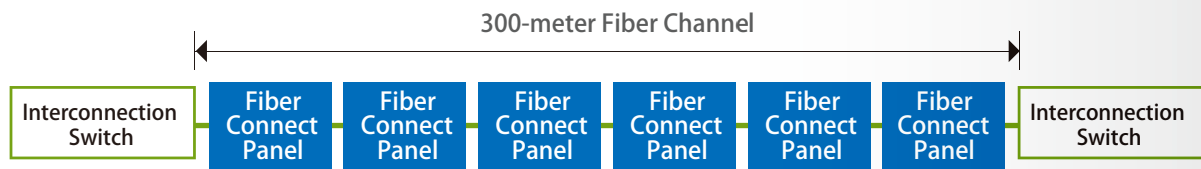
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PRODUCT CATEGORIES

- Fiber Optic System • Category 8 Solution • Field Termination Plug • Keystone Jack
- In-Line Coupler • Patch Panel • Trunk • Patch Cord • Cable • Easy Tool
- Cable Management

Fiber Optic Loss Budgets Calculation



10G LC OM3 300Mtr Channel with 6 Connections

Total Optimized MM Connector Loss:	6 x 0.15dB/connector= 0.90 dB
OM3 Cable Loss:	300 m x 3.5dB/km = 1.05 dB
Total	1.95 dB < Max. 2.6dB

*Per IEEE802.3ae, a 10GBASE Channel over OM3 fiber has a Max. 300Mtr with Max. loss 2.6dB

10G LC OS2 300Mtr Channel with 6 Connections

Total Optimized SM Connector Loss:	6 x 0.15dB/connector= 0.90 dB
OS2 Cable Loss:	300 m x 0.25dB/km = 0.08 dB
Total	0.98 dB < Max. 1.6dB

*Per IEEE802.3ae, a 10GBASE Channel over OS2 fiber has a Max. 300Mtr with Max. loss 1.6dB



40G MTP OM3 100Mtr Channel with 4 Connections

Total Optimized MM Connector Loss:	4 x 0.35dB/connector= 1.40 dB
OM3 Cable Loss:	100 m x 2.2dB/km = 0.22 dB
Total	1.62 dB < Max. 1.9 dB

*Per IEEE802.3ba, a 40GBASE Channel over OM3 fiber has a Max. 100Mtr with Max. loss 1.9dB

100G MTP OM4 150Mtr Channel with 3 Connections

Total optimized Connector Loss:	3 x 0.35dB/connector= 1.05 dB
OM4 Cable Loss:	150 m x 2.2dB/km = 0.33 dB
Total	1.38 dB < Max. 1.5 dB

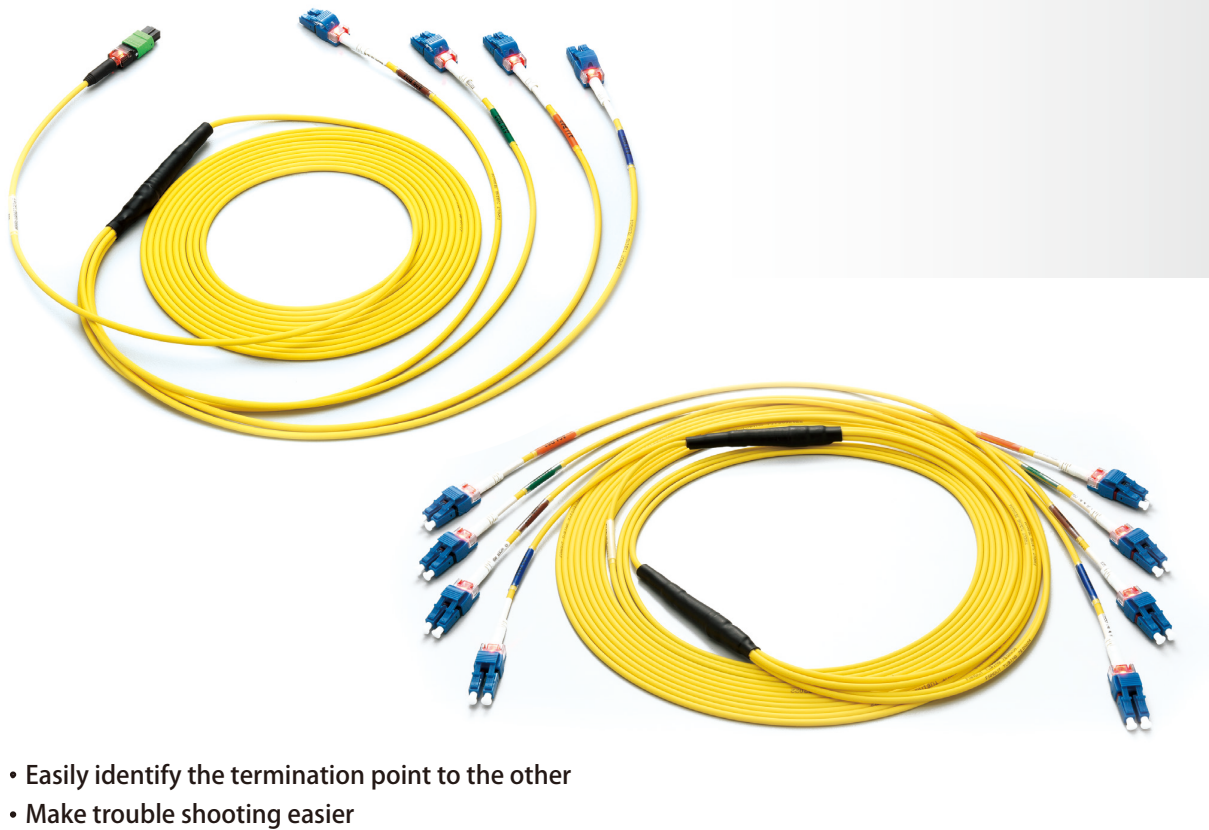
*Per IEEE802.3ba, a 100GBASE Channel over OM4 fiber has a Max. 150Mtr with Max. loss 1.5dB

	10G	40G	100G
Approach	10G	10G X 4	10G X 10
Max. Distance	OM3: 300M (850nm) OM4: 550M (850nm) SMF: 10KM (1310nm)	OM3: 100M (850nm) OM4: 150M (850nm) SMF: 10KM (1310nm)	OM3: 100M (850nm) OM4: 150M (850nm) SMF: 10KM (1310nm)

USCONEC Certification



Owl-Eyed Identification System

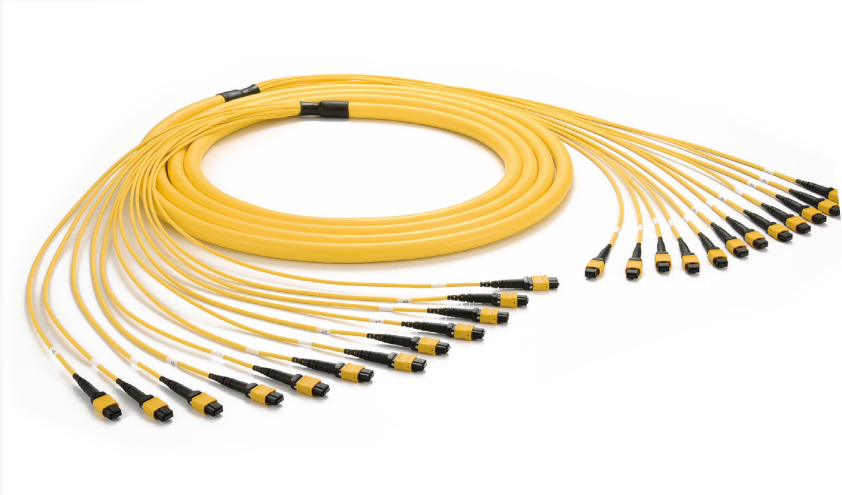


- Easily identify the termination point to the other
- Make trouble shooting easier
- Visually trace individual patch cord without pulling or affecting the patch cord
- Polarity switchable design in LC
- Red / Black color indication for polarity check
- Patent pending

Transmission Performance

Harness	Multimode			Single mode		
	Insertion Loss		Return Loss	Insertion Loss		Return Loss
	Standard Loss	Low Loss		Standard Loss	Low Loss	
LC	< 0.3 dB	< 0.15 dB	> 35 dB	< 0.2 dB	< 0.15 dB	> 55 dB
MTP	< 0.5 dB	< 0.35 dB	> 20 dB	< 0.75 dB	< 0.35 dB	> 60 dB

MTP Trunk Cable Assembly

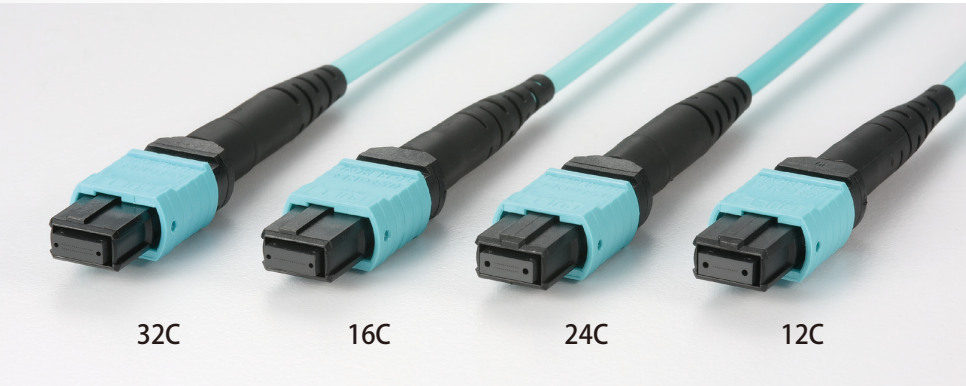


- Polarity A, B, C and customized are welcome
- 100% factory terminated and tested
- 8, 12, 24, 36, 48 cores... up to 144 cores are available
- Options with OM3, OM4 bend-insensitive fiber and OS2 G.657A
- Flexible micro cable reduced weight and carriage costs
- Parallel optic transmission over 40G / 100G / 400G Ethernet
- “Plug and Play” solution eliminates in-filed termination, reduces installation cost and time

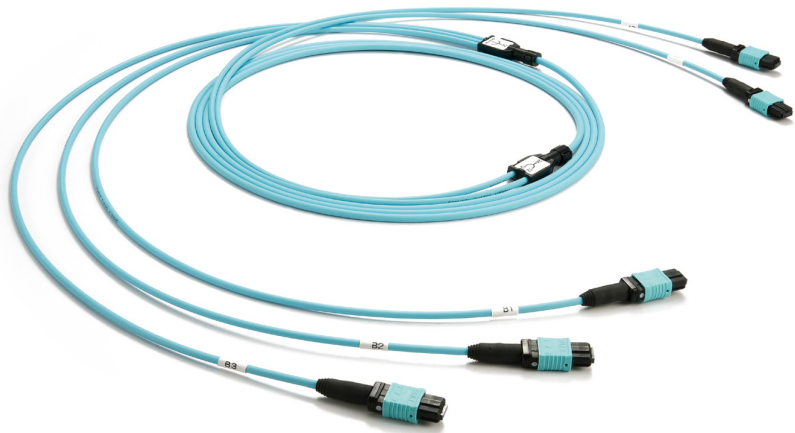
Transmission Performance

MTP mated pair	OM3 BIMMF		OM4 BIMMF		OS2 G.657A	
	Standard Loss	Low Loss	Standard Loss	Low Loss	Standard Loss	Low Loss
Insertion Loss	< 0.5dB	< 0.35dB	< 0.5dB	< 0.35dB	< 0.75dB	< 0.35dB
Return Loss	> 20dB	> 25dB	> 20dB	> 25dB	> 60dB	> 60dB

Parallel Optic Transmission Over 40G / 100G / 400G Ethernet



MTP Y Cable Assembly



- StandardPolarity and customized are welcome
- 100% factory terminated and tested
- 1x24F to 2x12F / 1x24F to 3x8F / 2x12F to 3x8F are available
- Options with OM3, OM4 bend-insensitive fiber and OS2 G.657A
- Flexible micro cable reduced weight and carriage costs

Transmission Performance

MTP mated pair	OM3 BIMMF		OM4 BIMMF		OS2 G.657A	
	Standard Loss	Low Loss	Standard Loss	Low Loss	Standard Loss	Low Loss
Insertion Loss	< 0.5dB	< 0.35dB	< 0.5dB	< 0.35dB	< 0.75dB	< 0.35dB
Return Loss	> 20dB	> 25dB	> 20dB	> 25dB	> 60dB	> 60dB

1x24F to 2x12F

End A Position	Fiber Color	End B Position
1	Blue	1
2	Orange	2
3	Green	3
4	Brown	4
5	Gray	5
6	White	6
7	Red	7
8	Black	8
9	Yellow	9
10	Purple	10
11	Pink	11
12	Aqua	12
13	Blue	1
14	Orange	2
15	Green	3
16	Brown	4
17	Gray	5
18	White	6
19	Red	7
20	Black	8
21	Yellow	9
22	Purple	10
23	Pink	11
24	Aqua	12

1x24F to 3x8F

End A Position	Fiber Color	End B Position
1	Blue	1
2	Orange	2
3	Green	3
4	Brown	4
5	Gray	1
6	White	2
7	Red	3
8	Black	4
9	Yellow	1
10	Purple	2
11	Pink	3
12	Aqua	4
13	Blue	12
14	Orange	11
15	Green	10
16	Brown	9
17	Gray	12
18	White	11
19	Red	10
20	Black	9
21	Yellow	12
22	Purple	11
23	Pink	10
24	Aqua	9

2x12F to 3x8F

End A Position	Fiber Color	End B Position
1	Blue	12
2	Orange	11
3	Green	10
4	Brown	9
5	Gray	4
6	White	3
7	Red	2
8	Black	1
9	Yellow	12
10	Purple	11
11	Pink	10
12	Aqua	9
1	Blue	4
2	Orange	3
3	Green	2
4	Brown	1
5	Gray	12
6	White	11
7	Red	10
8	Black	9
9	Yellow	4
10	Purple	3
11	Pink	2
12	Aqua	1

MTP to LC Harness Assembly

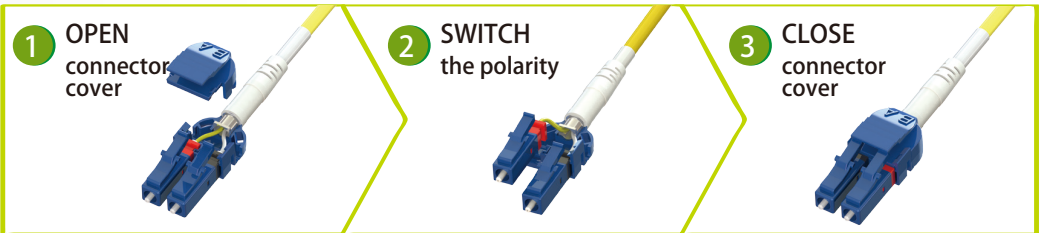


- UniBoot LC is polarity switchable design
- Half tube counts are ease of cable management
- 1x12C MTP to 6xLC uniboot / 1x12C MTP to 4xLC uniboot / 1x24C MTP to 10xLC uniboot / 1x24C MTP to 12xLC uniboot are available
- 100% Factory terminated and tested
- Options with OM3, OM4 bend-insensitive fiber and OS2 G.657A

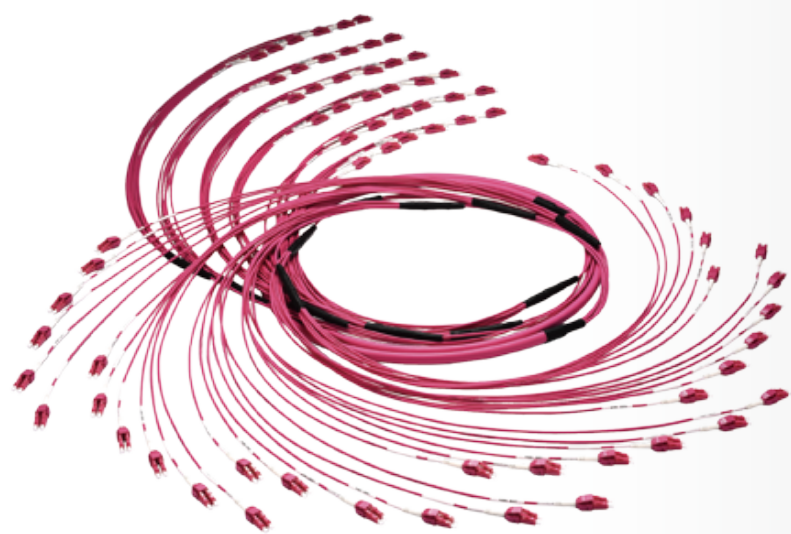
Transmission Performance

Harness	Multimode			Single mode		
	Insertion Loss		Return Loss	Insertion Loss		Return Loss
	Standard Loss	Low Loss		Standard Loss	Low Loss	
LC	< 0.3 dB	< 0.15 dB	> 35 dB	< 0.2 dB	< 0.15 dB	> 55 dB
MTP	< 0.5 dB	< 0.35 dB	> 20 dB	< 0.75 dB	< 0.35 dB	> 60 dB

Switch Polarity



UniBoot LC MicroCable Assembly

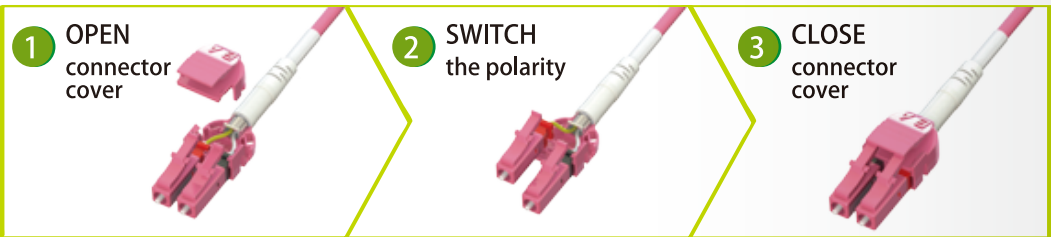


- Uniboot LC is polarity switchable design
- Red/Black color indication for polarity check
- 100% Factory terminated and tested
- Half tube counts are ease of cable management
- Flexible microcable reduced weight and carriage costs
- 2, 8, 12, 24, 36, 48 cores... up to 144 cores are available
- Options with OM3, OM4 bend-insensitive fiber and OS2 G.657A
- Breakout tubing Length Max. 2.5M.

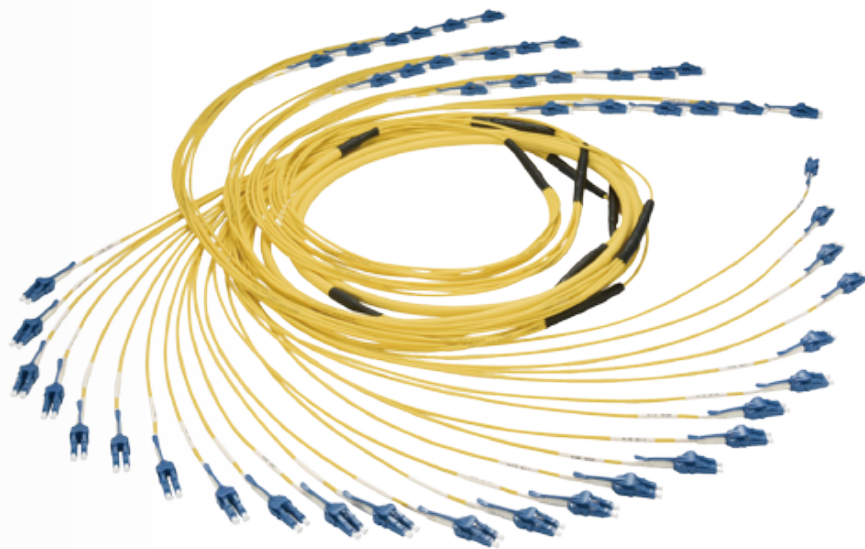
Transmission Performance

LC mated pair	300M/10G OM3		550M/10G OM4		10KM/10G OS2	
	Standard	Low Loss	Standard	Low Loss	Standard	Low Loss
Insertion Loss	< 0.3dB	< 0.15dB	< 0.3dB	< 0.15dB	< 0.2dB	< 0.15dB
Return Loss	> 35dB	> 40dB	> 35dB	> 40dB	> 55dB	> 55dB

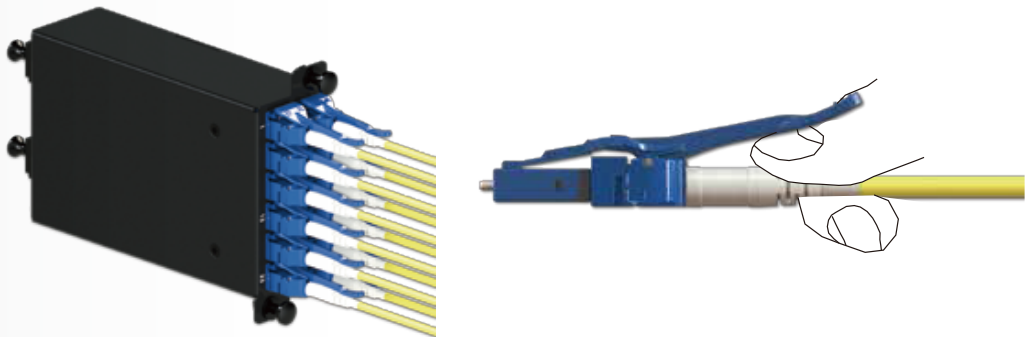
Switch Polarity



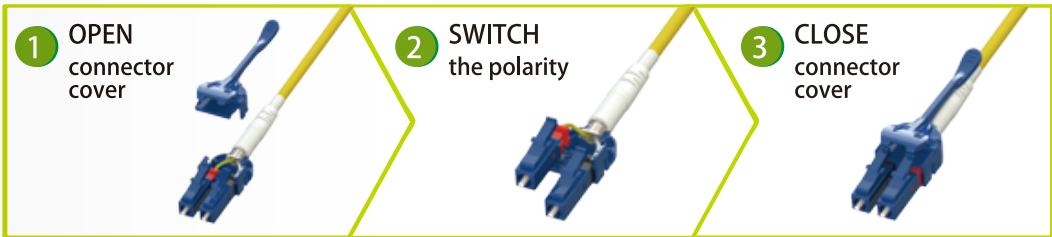
Extractor LC MicroCable Assembly



- Seesaw tab design makes LC connector easy extraction in high density construction
- Extractor LC is polarity switchable design
- Red/Black color indication for polarity check
- 100% Factory terminated and tested
- Half tube counts are ease of cable management
- 2, 8, 12, 24, 36, 48 cores... up to 144 cores are available
- Options with OM3, OM4 bend-insensitive fiber and OS2 G.657A
- Breakout tubing length Max. 2.5M.



Switch Polarity



Loop Back

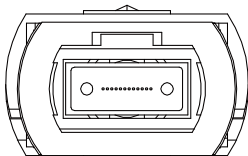
Fiber loop back provide an economical solution for a number of fiber optic test applications. These loop back cables offer a generous manageable fiber loop virtually eliminating bend loss. Each cable is functionally tested before shipping and is covered by a lifetime warranty. For MTP, device burn-in and loopback testing for network cards and QSFP modules. A signal loop from transceiver to receiver is within one MTP. Loopback includes SC, LC and 12C / 24C MTP connector types, allows testing of optical network segment by segment.



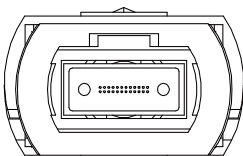
Transmission Performance

Insertion Loss	Multimode	Singlemode
MTP	< 1.5 dB	< 1.5 dB
LC / SC	< 0.5 dB	< 0.3 dB

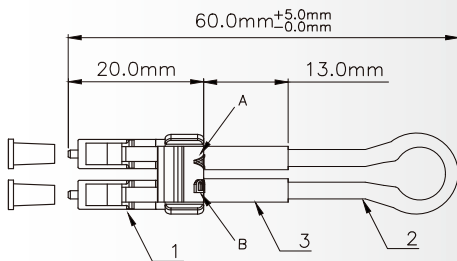
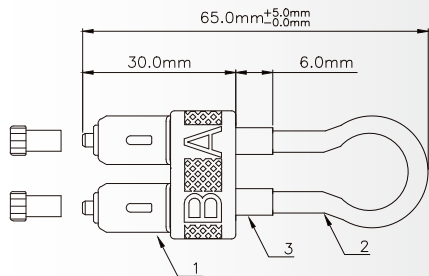
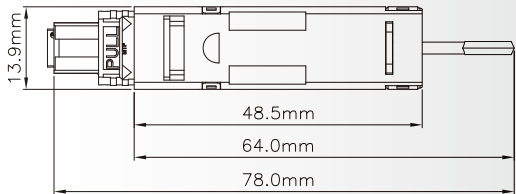
MTP Polarity



Channel Standrd	Fiber Number
01	to 12
02	to 11
03	to 10
04	to 09
05	to 08
06	to 07

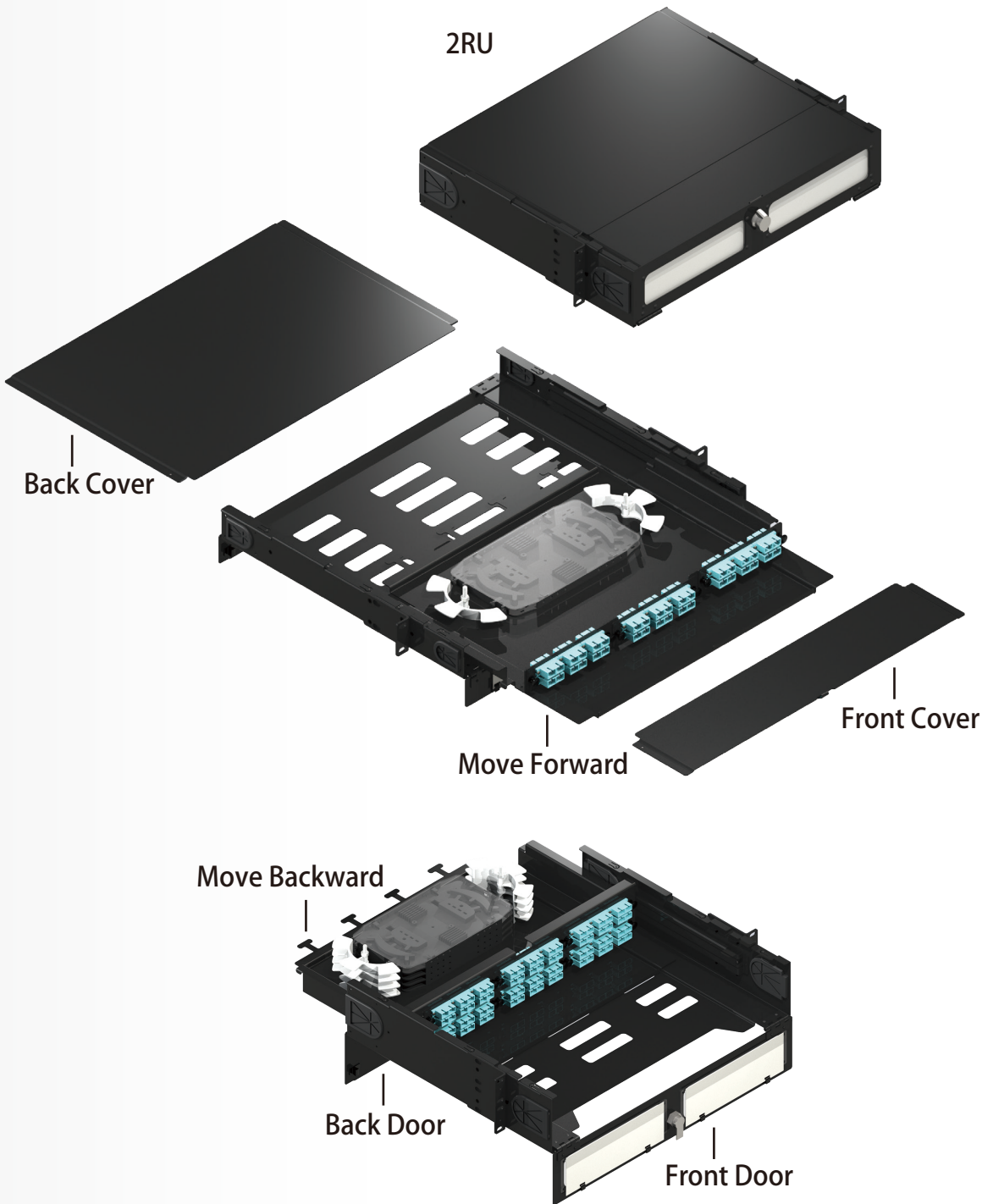


Channel Standrd	Fiber Number
01	to 13
02	to 14
03	to 15
04	to 16
05	to 17
06	to 18
07	to 19
08	to 20
09	to 21
10	to 22
11	to 23
12	to 24



Bi-Direction Sliding Fiber Enclosure

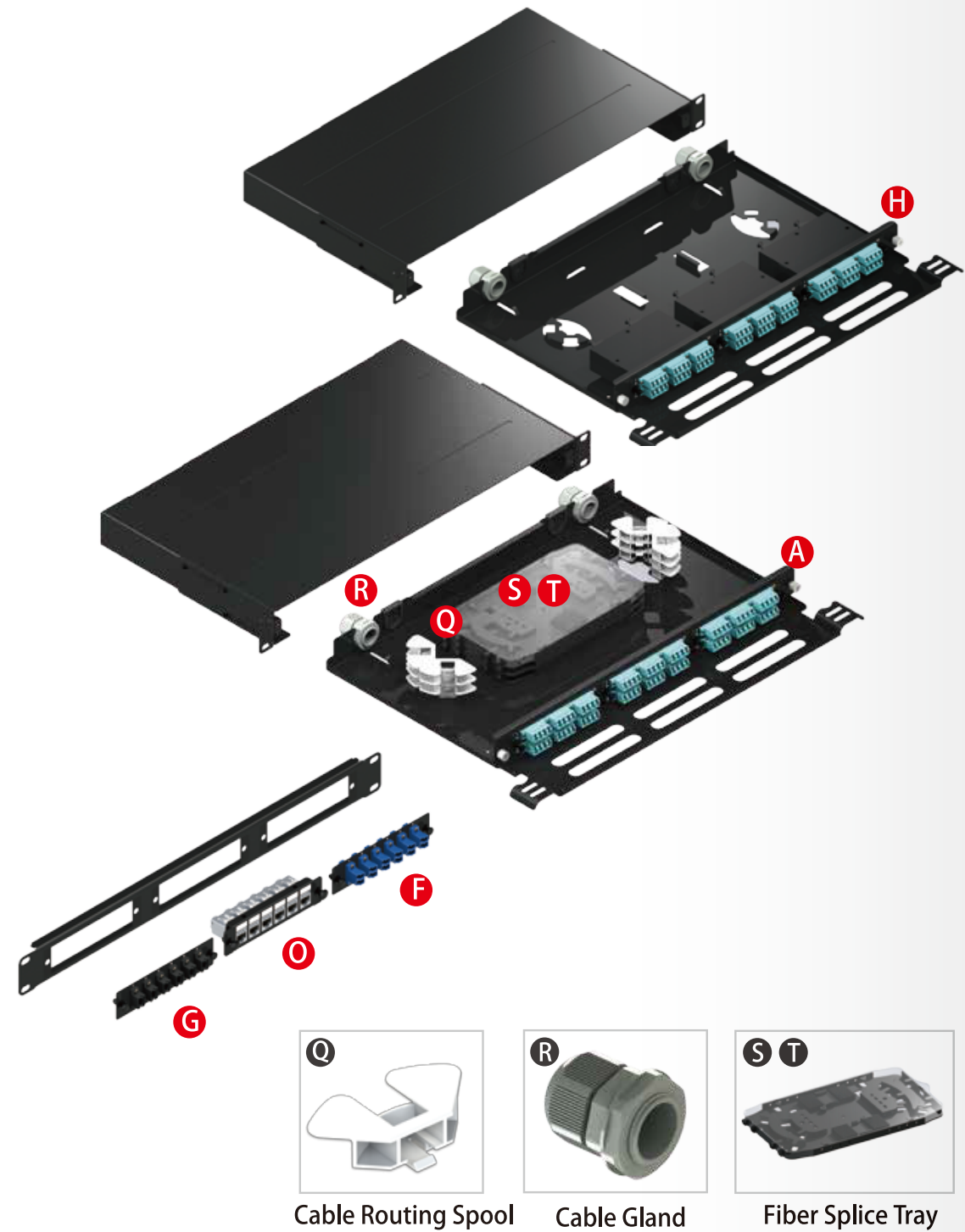
Bi-Direction sliding fiber enclosure can be shut off with hinged front door and rear cover after termination, so it is away from dusts and prevents disconnection by careless touch, more secured and compact construction.



* Both of 1RU and 2RU are available.

Multi-Function LGX Fiber Patch Panel

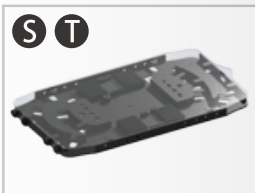
Multi-Function LGX fiber patch panel is constructed by flexible design to achieve diversified applications, like in-field fiber termination, pre-termination fiber cassette and RJ45 keystone termination. The panel accepts LGX cutout fiber adaptor plate, fiber cassette and even LGX 6 RJ45 keystone jack plate.



Cable Routing Spool



Cable Gland



Fiber Splice Tray



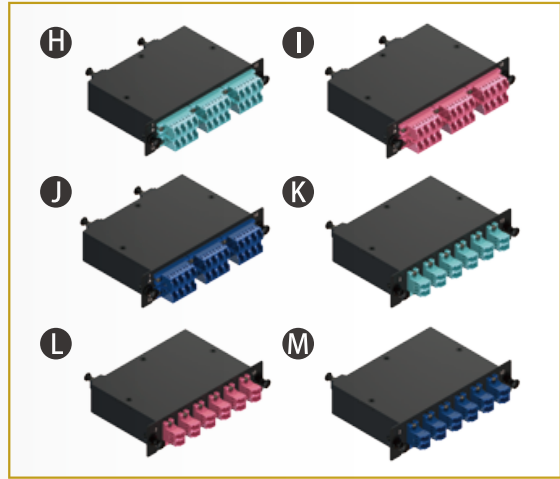
24C LC Adaptor Panels

- 6 Quad LC adaptors
- Plug & Play for fast installation
- Ceramic sleeve for OM3, OM4 and SM
- Insertion loss < 0.2dB

- A. OM3 Aqua adaptor
- B. OM4 Violet adaptor
- C. SM Blue adaptor

12C LC Adaptor Panels

- D. OM3 Aqua adaptor
- E. OM4 Violet adaptor
- F. SM Blue adaptor
- G. MTP Adaptor



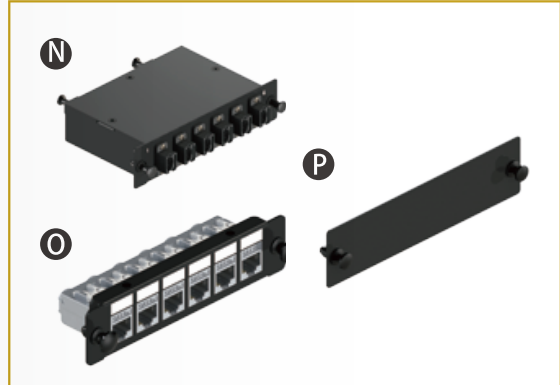
24C MTP-LC Cassettes

- 6 x Quad LC adaptors
- 2 x MTP adaptors
- 2 x 12F MTP-LC Harness
- 100% factory terminated and tested
- Low Insertion loss < 0.5dB
- Plug & Play for fast installation

- H. OM3 Cassette
- I. OM4 Cassette
- J. SM Cassette

12C MTP-LC Cassettes

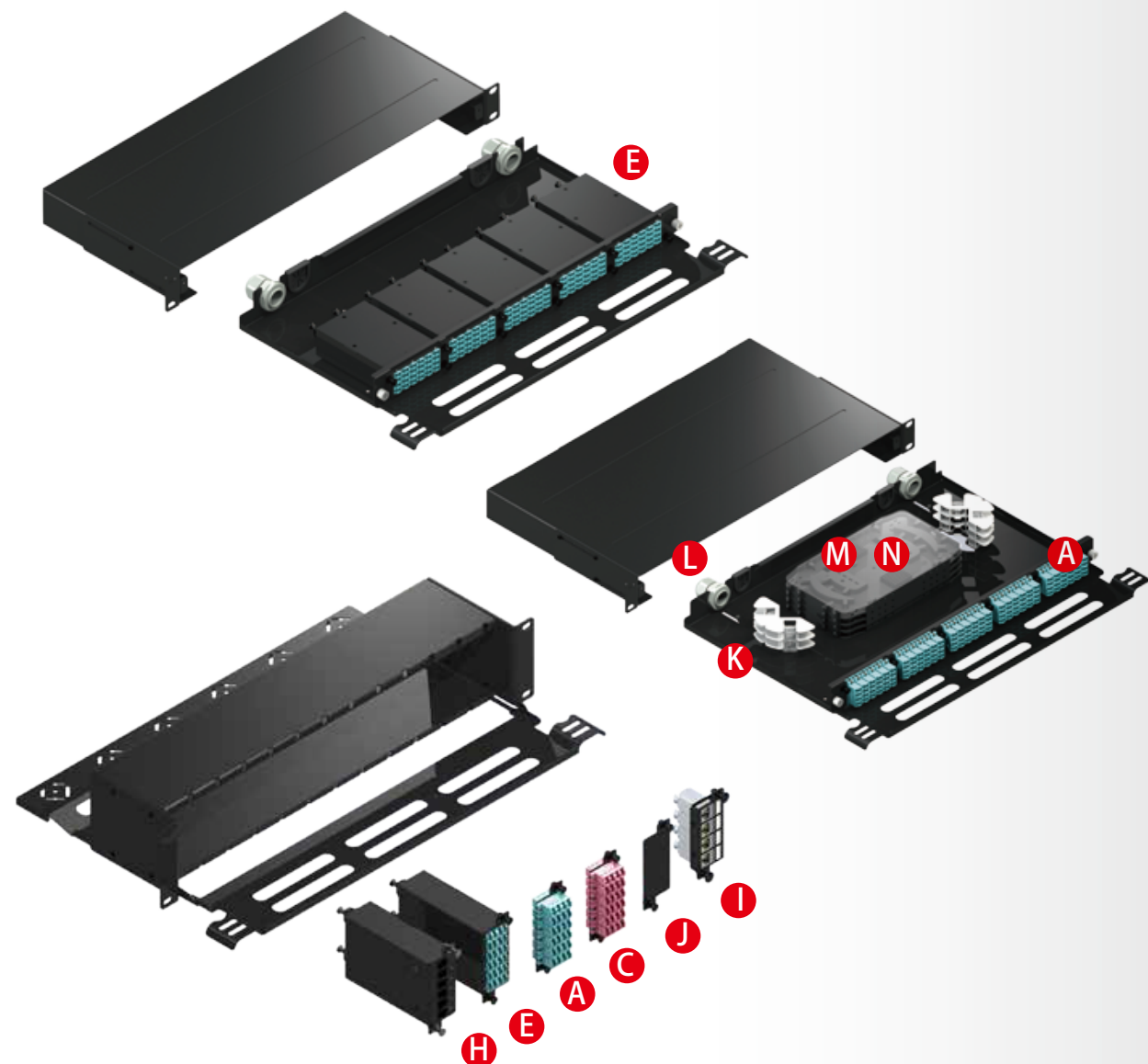
- K. OM3 Cassette
- L. OM4 Cassette
- M. SM Cassette



- N. 40G / 100G Migration Cassette
- O. 4-Port Cat.6A Keystone Jack Panels
 - Full shielded by zinc alloy housing
 - C6A component performance
 - Fits 23-26 awg solid and stranded cable
 - Fits cable O.D. 5-8mm
- P. Blank Panel

Multi-Function HD Fiber Patch Panel

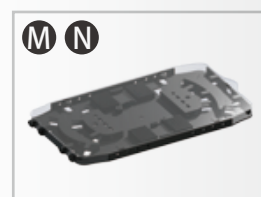
Multi-Function high density fiber patch panel is constructed by flexible design to achieve diversified applications, like in-field fiber termination, pre-termination fiber cassette and RJ45 keystone termination. The maximum port number of 1U multi-function fiber patch panel is up to 120 ports.



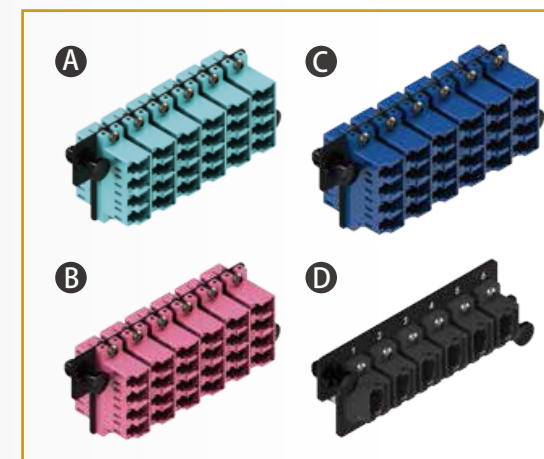
Cable Routing Spool



Cable Gland



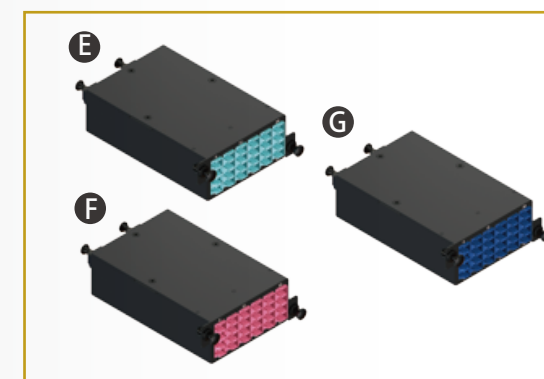
Fiber Splice Tray



24C LC Adaptor Panels

- 6 Quad LC adaptors
- Plug & Play for fast installation
- Ceramic sleeve for OM3, OM4 and SM
- Insertion loss < 0.2dB

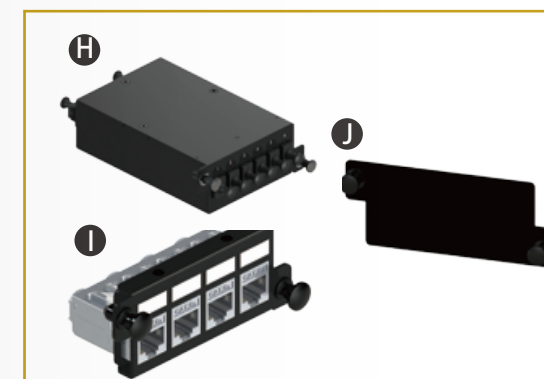
A. OM3 Aqua adaptor
B. OM4 Violet adaptor
C. SM Blue adaptor
D. MTP Adaptor



24C MTP-LC Cassettes

- 6 x Quad LC adaptors
- 2 x MTP adaptors
- 2 x 12F MTP-LC Harness
- 100% factory terminated and tested
- Low Insertion loss < 0.5dB
- Plug & Play for fast installation

E. OM3 Cassette
F. OM4 Cassette
G. SM Cassette

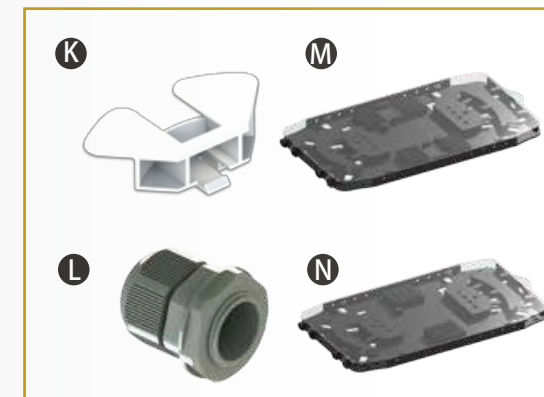


H. 40G/100G Cassette

I. 4-Port Cat.6A Keystone Jack Panels

- Full shielded by zinc alloy housing
- C6A component performance
- Fits 23-26 awg solid and stranded cable
- Fits cable O.D. 5-8mm

J. Blank Panel



K. Cable Routing Spool

L. Cable Gland

Option:

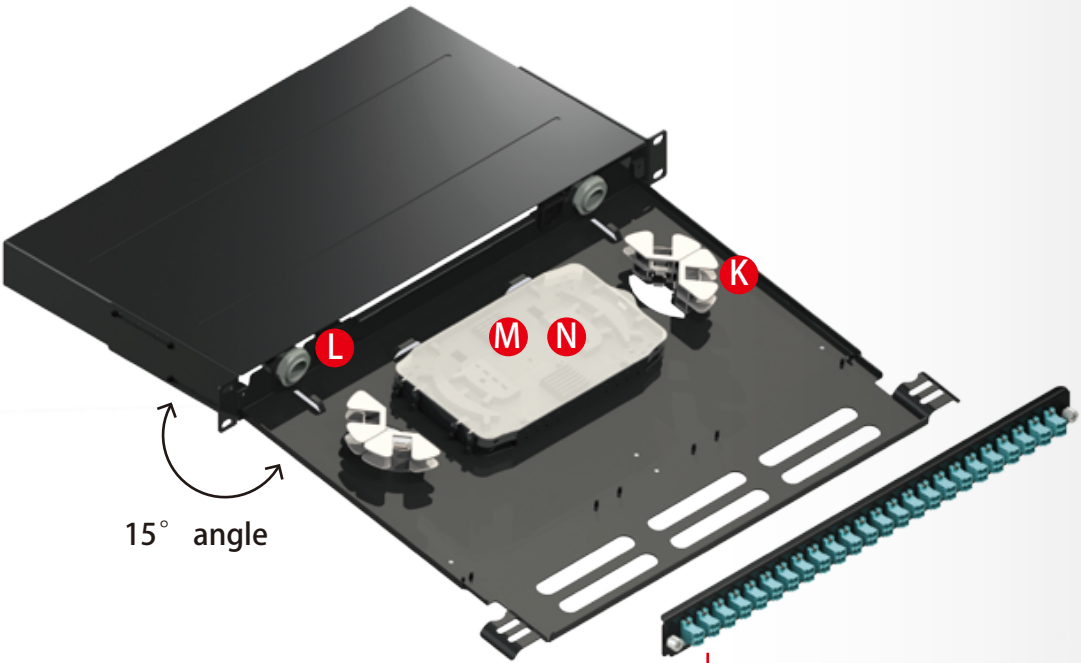
- M20 Cable O.D. 10mm-14mm
- M25 Cable O.D. 13mm-18mm

M. 12-Fiber Splice Tray

N. 24-Fiber Splice Tray

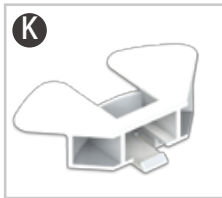
Fiber Patch Panel with Changeable Front Plate

1RU Multi-Function fiber patch panel is constructed by flexible design to achieve diversified applications, in-field fiber termination with various adaptor plates, like ST, FC, SC simplex, SC duplex, LC duplex, LC quad in 12port and 24port.



15° angle

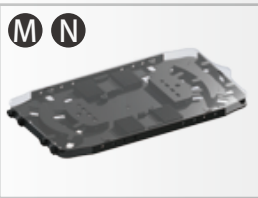
Changeable Front Plate A - J



Cable Routing Spool



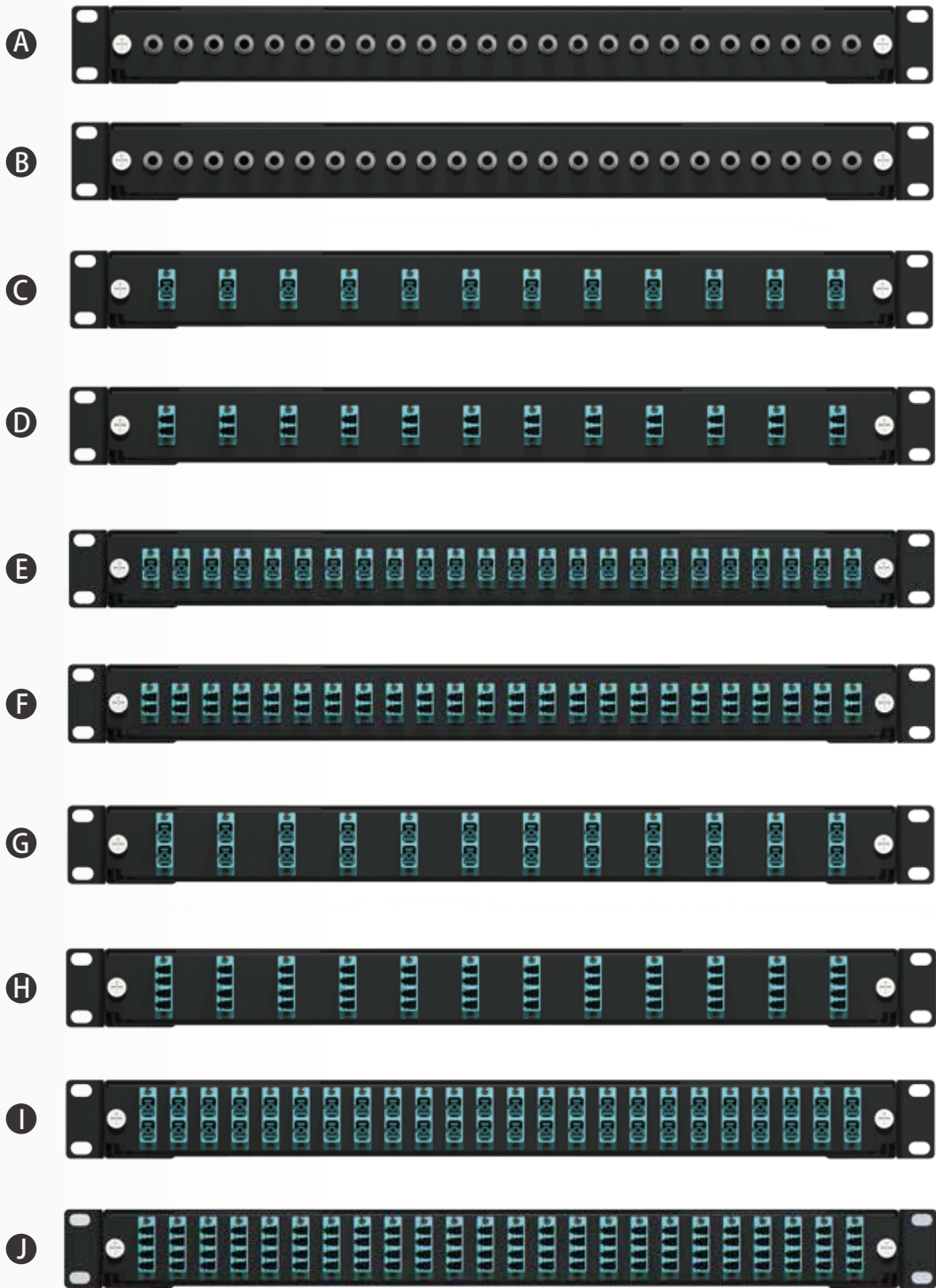
Cable Gland



Fiber Splice Tray

Front Plates

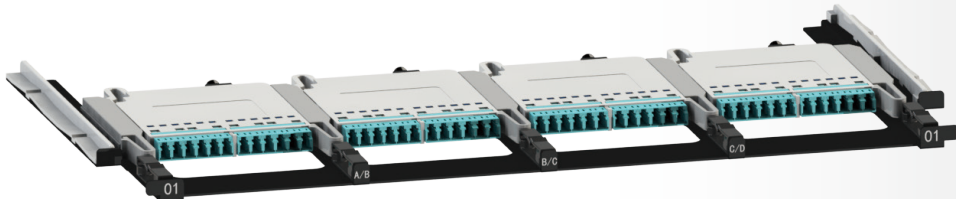
A FC 24pcs	C SC Simplex 12 pcs	E SC Simplex 24 pcs	G SC Duplex 12 pcs	I SC Duplex 24 pcs
B ST 24 pcs	D LC Duplex 12 pcs	F LC Duplex 24 pcs	H LC Quad 12 pcs	J LC Quad 24 pcs



1RU 144-Port Cassette Patch Panel



- 12-fiber cassettes can be mounted in 1U scaling up to 144xLC connectors
- 3-layer design accepts 12 cassettes, provides max. scalability
- Cassette can be easily removed by pulling it out from either at front or back
- Hinged front / rear door support easy cable maintenance
- Mounting bracket design allows solely installation
- Removable sliding tray makes cable management easily
- Low loss fiber solution meets high performance data center requirement
- Light stacked and ultra-high density fiber system
- Pre-terminated, Pre-tested, Play and Play



1RU 144-Port Cassette Patch Panel

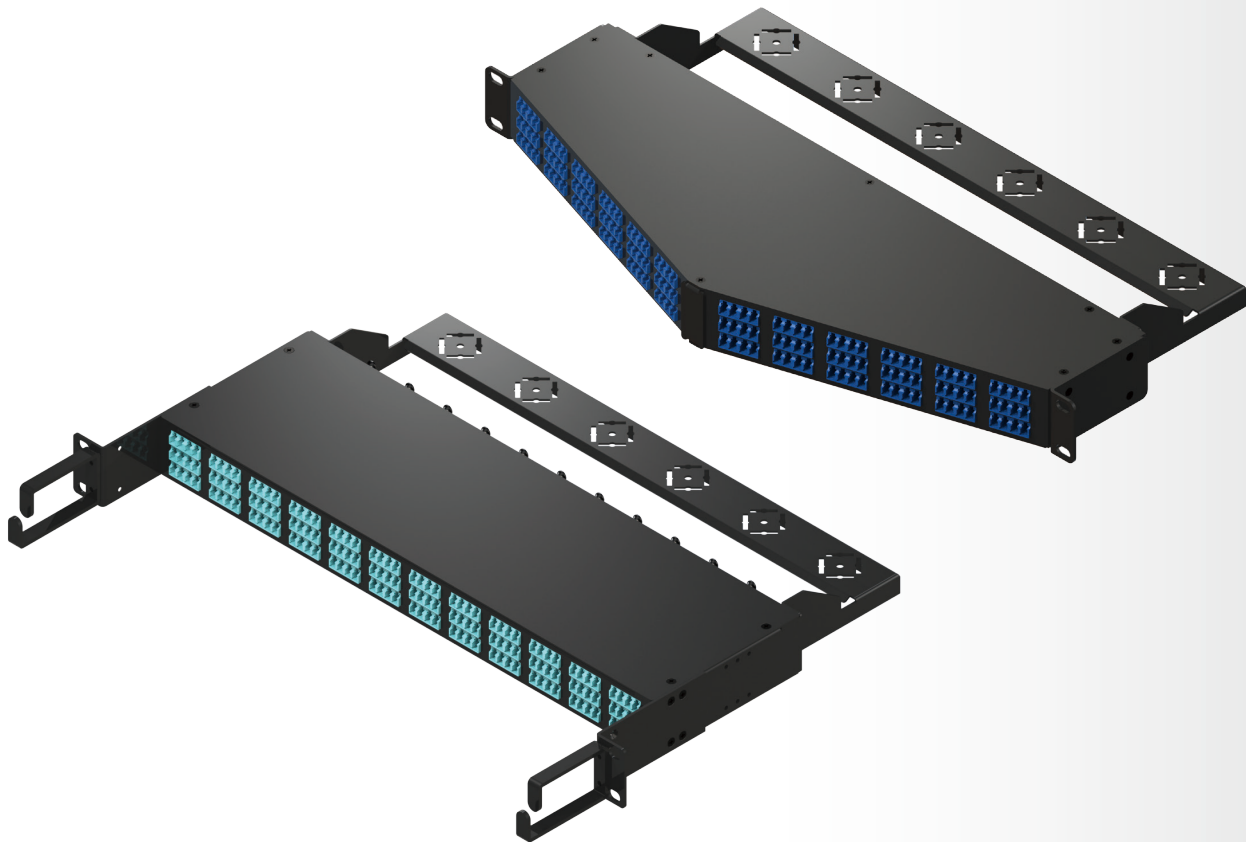


- MPO IEC 61754-7 standards compliant multi-fiber connector
- OS2 / OM3 / OM4 bend-insensitive fiber grades are available
- 12 fiber cassette 2x 6-port LC to 1x12C MTP
- Factory pre-terminated and 100% pre-tested
- High performance LC adaptor with zirconia sleeve
- Options with polarity A/C and B
- MTP adaptor for polarity B is aligned key, polarity A/C is opposed key

Transmission Performance

Harness	Multimode			Single mode		
	Insertion Loss		Return Loss	Insertion Loss		Return Loss
	Standard Loss	Low Loss		Standard Loss	Low Loss	
LC	< 0.3 dB	< 0.15 dB	> 35 dB	< 0.2 dB	< 0.15 dB	> 55 dB
MTP	< 0.5 dB	< 0.35 dB	> 20 dB	< 0.75 dB	< 0.35 dB	> 60 dB

1RU 144 Ports MTP to LC Angled Patch Panel

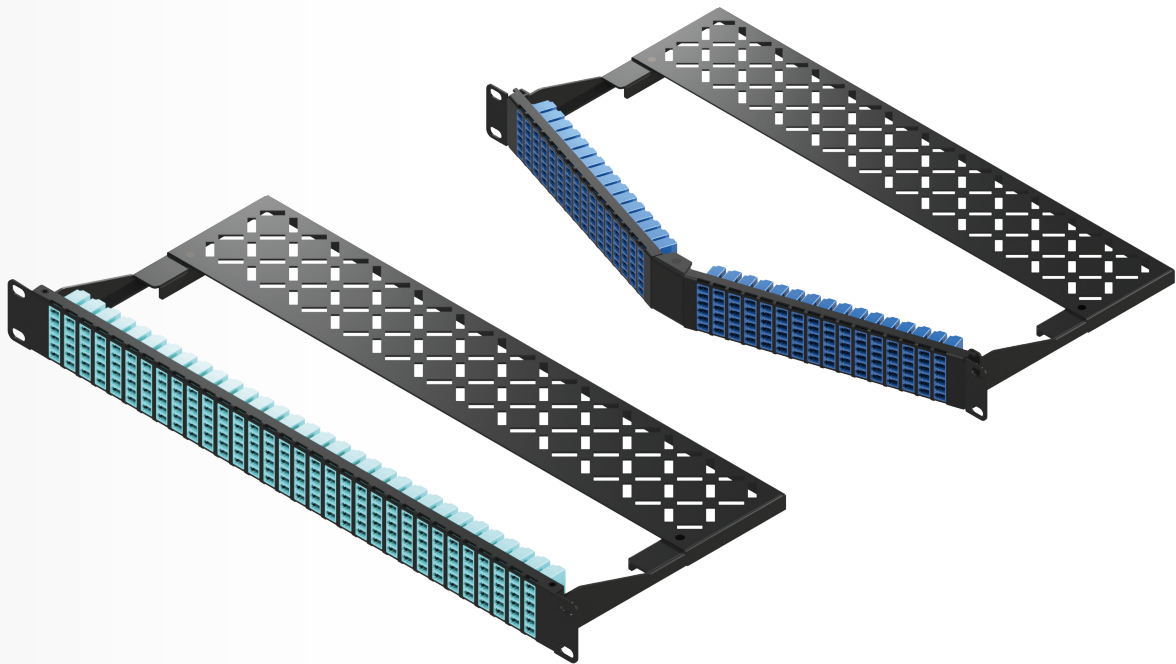


- High density design saves space and light weight
- Both of flat and angled front plates are available
- Neat and flush front plate with good looking
- Angled design minimizes patch cord bend radius to the rack
- Angled design divert cables to two separate directions, makes cable management more efficient

Transmission Performance

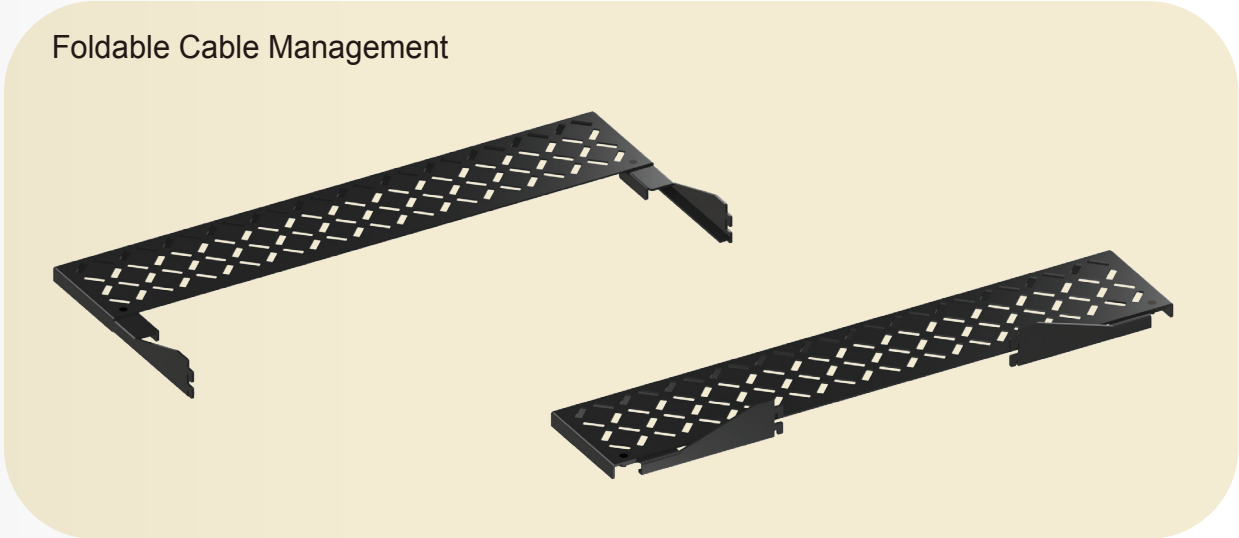
Harness	Multimode			Single mode		
	Insertion Loss		Return Loss	Insertion Loss		Return Loss
	Standard loss	Low Loss		Standard Loss	Low Loss	
LC	< 0.3 dB	< 0.15 dB	> 35 dB	< 0.2 dB	< 0.15 dB	> 55 dB
MTP	< 0.5 dB	< 0.35 dB	> 20 dB	< 0.75 dB	< 0.35 dB	> 60 dB

1RU 192 Ports LC Patch Panel

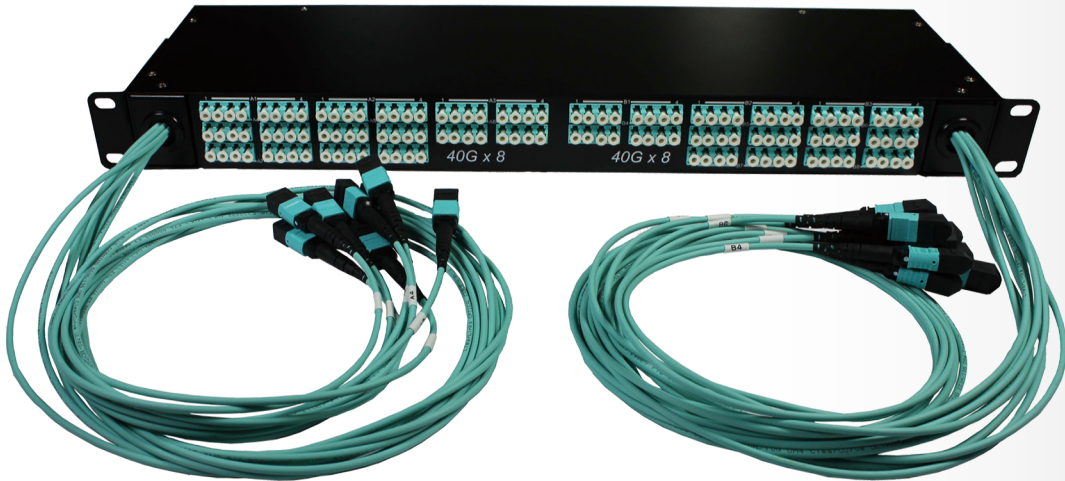


- High density design saves space and light weight
- Both of flat and angled front plates are available
- Neat and flush front plate with good looking
- Angled design minimizes patch cord bend radius to the rack
- Divert cables to two separate directions, makes cable management more efficient
- Removable and foldable cable management bar saves transportation cost and stock space
- LC adaptor SM with ceramic sleeve IL < 0.2dB; MM with P.B. sleeve IL < 0.3dB
- LC adaptor color available in Blue, Beige, Aqua and Erika-violet

Foldable Cable Management



MTP to LC Breakout System

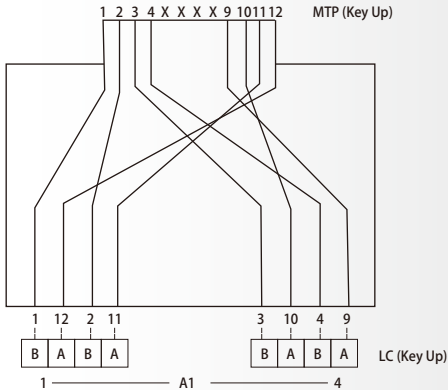


- Compact size design with 5" depth, weight 1.5kg
- Simple and easy installation with front patching design
- 16MTP to 64LC-Duplex and 12MTP to 48LC-Duplex offering greater choice
- Corning universal polarity or customized wiring assignment are accepted

Transmission Performance		50um OM4 BIF	9um OS2 G.657A
MTP Mated Pair	Insertion Loss	≤0.35 dB	≤0.35 dB
	Return Loss	≥25 dB	≥60 dB
LC Mated Pair	Insertion Loss	≤0.15 dB	≤0.1 dB
	Return Loss	≥40 dB	≥55 dB

Wiring map

Fiber no.	Color	Fiber no.	Color
1.	Blue	7.	Red
2.	Orange	8.	Black
3.	Green	9.	Yellow
4.	Brown	10.	Violet
5.	Slate	11.	Rose
6.	White	12.	Aqua



Copper



Certificate

No. z4762d- 17- E

Customer:
EPCTCorporation
1FL., No.219, Sec.3, Dadu Road Beitou District
112 Taipei City Taiwan, R.O.C.

Test sample(s):
Data Cable:
EPCT Corporation Cat.8 Solid Cable, LSZH
Part no.: ECSR048

Patchcord:
EPCT Corporation Cat.8 Solid Cable, LSZH equipped with
EPCT Corporation Cat.8 Field Termination Plug
Part no.: ECSR048 with ECFPC8

Connector:
EPCT Corporation Cat.8 Keystone Jack
Part no.: KJ58F- C8- FS

Applied standard(s):
ISO/IEC TR 11801 9901 Ed.1.0 (2014- 08)

Result(s):
The sample meets the limits of the specified standards and regulations with respect
to the parameters indicated above.

Class I

2 ConnectorChannel (30m), Copper, Class I

GHMT Type Approval

The test results which were determined in the course of the measurement refer to the submitted specimen. Any future technical modifications of the verified products are subject to the responsibility of the manufacturer.

This Certificate refers to the comprehensive test report no. P 4762d- 17- E and shall only be applicable in conjunction with the test report. This certificate is valid 24 months after date of issue.

Bexbach, 22. December2017

Dirk Wilhelm, engineer
(Chairman of the Managing Board)



Test laboratory accredited by DAkkS in accordance with DIN EN ISO/IEC 17025.
The accreditation is valid for the test methods listed in certificate D- PL- 17559- 01- 00.

GHMT AG
In der Kolling 13
66450 Bexbach / Germany

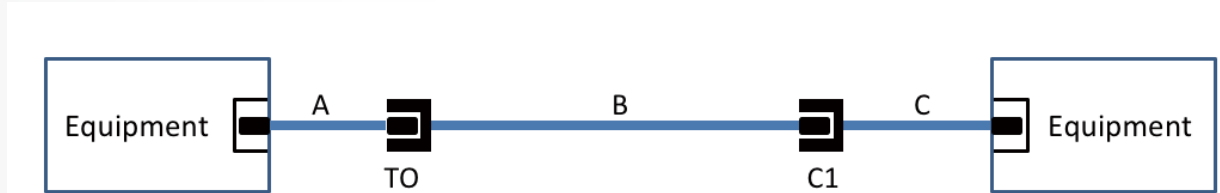
PO box 11 16
66442 Bexbach / Germany

T: +49 6826 92 28
F: +49 6826 92 2890

info@ghmt.de
www.ghmt.de

RELIABILITY IN TOTAL
REQUIRES ACCURACY IN DETAI

CAT8 Channel Configuration

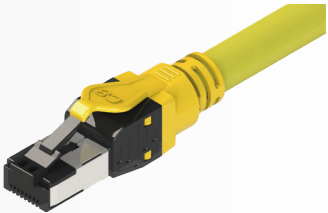


According to ANSI/TIA 568C.2-1 and ISO/IEC TR 11801-9901

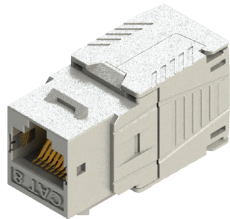
ID	Description
A	Cables and Cords
C	Work Area Cord
B	Patch Cord / Equipment Cord
	Horizontal Cabling
	Connecting Hardware
TO	Telecommunications Outlet
C1	Horizontal Cross-connect or Interconnect
	Maximum Length
Max. 6m	A+C
Max. 24m	B

ID	Products description
A, C	CAT8 S/FTP 22AWG solid wires patch cord, 1 to 5m, or CAT8 S/FTP 24AWG stranded wires patch cord, 1 to 5m, Above patch cords are available for both field term. plug and factory manufacture plug
B	CAT8 S/FTP 22AWG solid wires cable, max. 24m
TO, C1	CAT8 FTP keystone jack

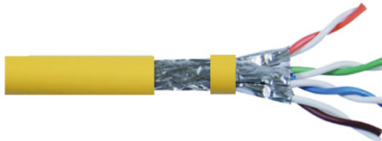
CAT8 Patch Cord



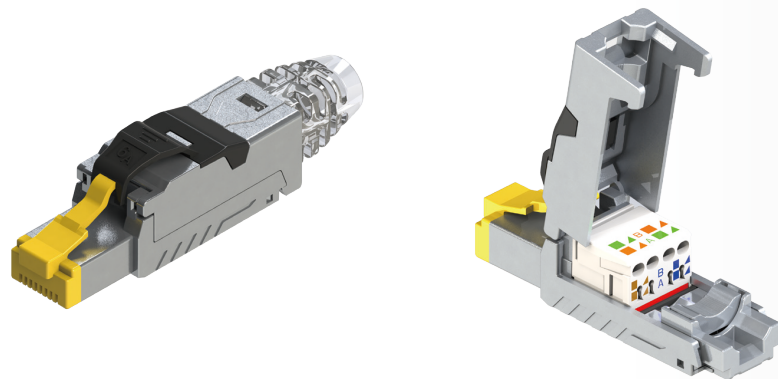
CAT8 Keystone Jack



CAT8 Horizontal Cable



FTP Field Term. Plug, Snap-in Boot



Features

- GHMT verified CAT8 channel class I performance
- GHMT verified IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- CAT8 design to support Ethernet at rates up to 40 Gbps (40GBASE-T) and 25Gbps(25GBASE-T) over distances up to 30 meters for switch-to-server connections in data center
- Power over HDBaseT (PoHDBaseT - up to 100W) application
- High quality connectors ensure system reliability and stability by press-fit assembly process
- CAT6A patch cord component-rated
- IEC60603-7 dimensions and structural reliability complied

Applications

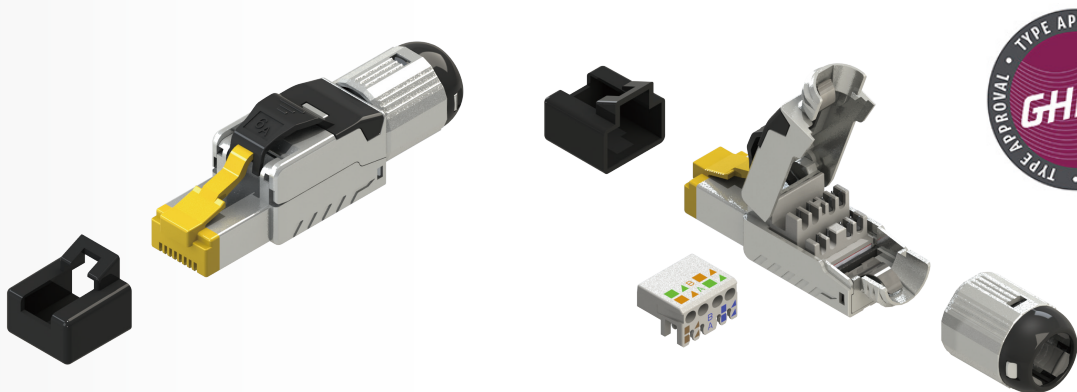
Wire Gauge (AWG)	Wire O.D. (mm)	Cable O.D. (mm)
26/7 - 23/1	1.0 - 1.45	6.0 - 7.5
24/7 - 22/1	1.2 - 1.65	7.0 - 8.5

Part No.	Description
ECFFP-C6A	CAT6A FTP, patch cord component-rated, snap-in boot type
ECFFP-C8	CAT8 FTP, channel level, snap-in boot type



Suitable for easy crimping tool
EPCT P/N : MNNECT-B

IP20 FTP Field Term. Plug, Screw -in Boot



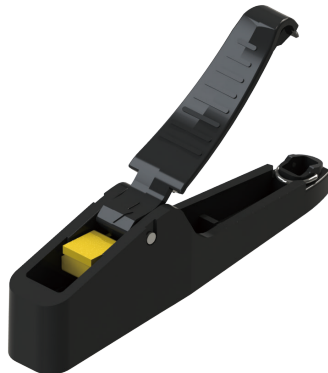
Features

- GHMT verified CAT8 channel class I performance
- GHMT verified IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- CAT8 design to support Ethernet at rates up to 40 Gbps (40GBASE-T) and 25Gbps(25GBASE-T) over distances up to 30 meters for switch-to-server connections in data center
- Power over HDBaseT (PoHDBaseT - up to 100W) application
- High quality connectors ensure system reliability and stability by press-fit assembly process
- CAT6A patch cord component-rated
- IEC60603-7 dimensions and structural reliability complied
- IP20 protection by dust-cap and screw-in boot design

Applications

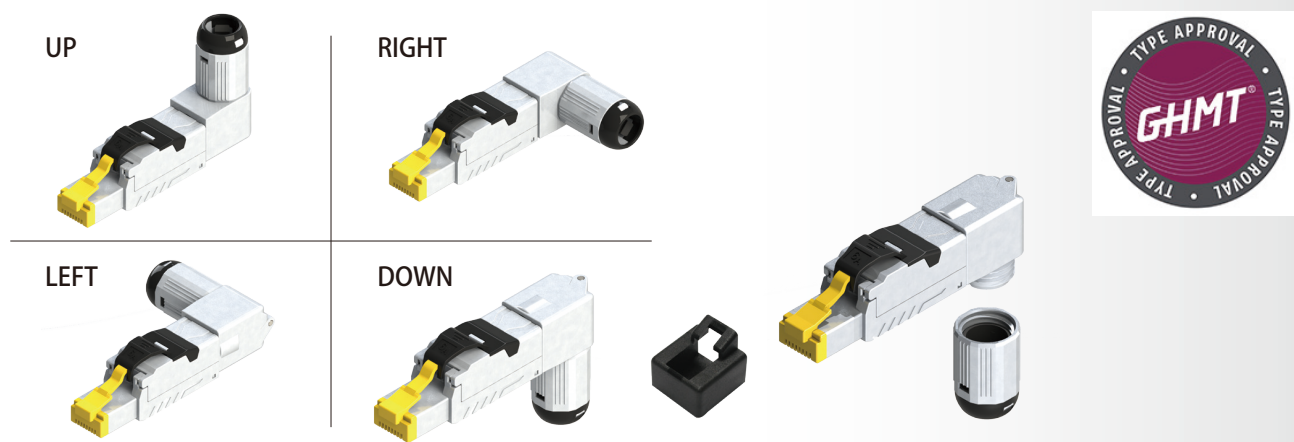
Wire Gauge (AWG)	Wire O.D. (mm)	Cable O.D. (mm)
26/7 - 23/1	1.0 - 1.45	6.0 - 7.5
24/7 - 22/1	1.2 - 1.65	7.0 - 8.5

Part No.	Description
ECFFPS-C6A	CAT6A FTP, patch cord component-rated, screw-in boot type
ECFFPS-C8	CAT8 FTP, channel level, screw-in boot type



Suitable for easy crimping tool
EPCT P/N : MNNECT-B

IP20 FTP 5-direction Field Term. Plug



Features

- 5-direction cable entry design
- GHMT verified CAT8 channel class I performance
- GHMT verified IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- CAT8 design to support Ethernet at rates up to 40 Gbps (40GBASE-T) and 25Gbps(25GBASE-T) over distances up to 30 meters for switch-to-server connections in data center
- Power over HDBaseT (PoHDBaseT - up to 100W) application
- High quality connectors ensure system reliability and stability by press-fit assembly process
- CAT6A patch cord component-rated
- IEC60603-7 dimensions and structural reliability complied
- IP20 protection by dust-cap and screw-in boot design

Applications

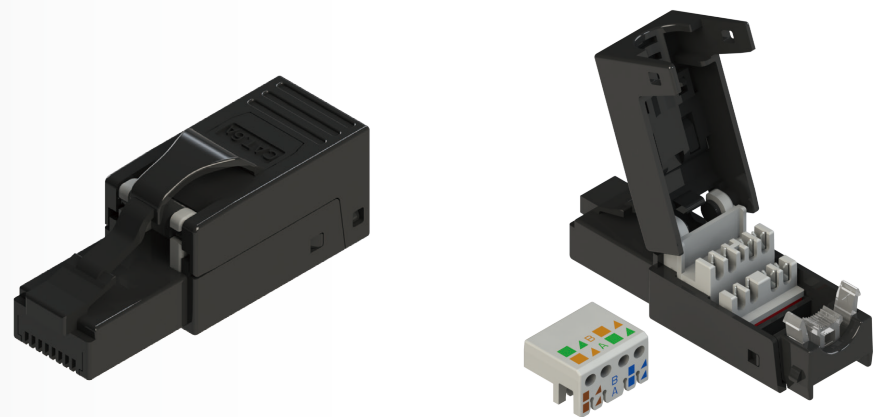
Wire Gauge (AWG)	Wire O.D. (mm)	Cable O.D. (mm)
26/7 – 23/1	1.0 - 1.45	6.0 - 7.5
24/7 – 22/1	1.2 - 1.65	7.0 - 8.5

Part No.	Description
ECFFPA-C6A	CAT6A FTP, patch cord component-rated, 5-direction, screw-in boot type
ECFFPA-C8	CAT8 FTP, channel level, 5-direction, screw-in boot type



Suitable for easy crimping tool
EPCT P/N : MNNECT-B

UTP Field Term. Plug, Push to Crimp type



Features

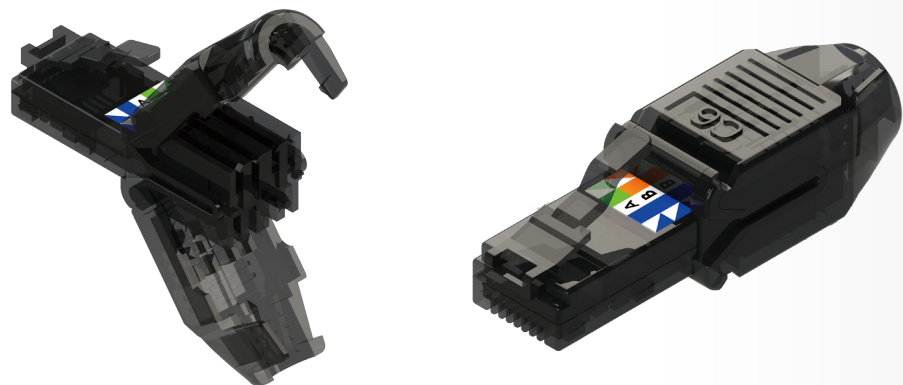
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- CAT6 and CAT6A patch cord component-rated and channel performance
- Power over HDBaseT (PoHDBaseT - up to 100W) application
- High quality connectors ensure system reliability and stability by press-fit assembly process
- IEC60603-7 dimensions and structural reliability complied
- L x W x H: 42.8 x 14.0 x 17.5mm

Applications

Wire Gauge (AWG)	Wire O.D. (mm)	Cable O.D. (mm)
23/1-26/7	1.0 – 0.8	7.5 – 5.0

Part No.	Description
ECUFFP-C6	CAT6 UTP, patch cord component-rated
ECUFFP-C6A	CAT6A UTP, patch cord component-rated

UTP Field Term. Plug



Features

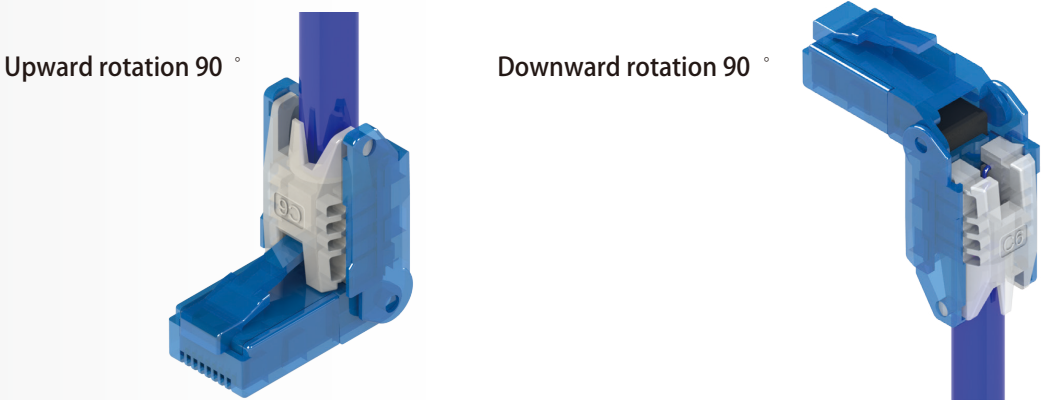
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- CAT6 and CAT6A patch cord component-rated and channel performance
- Power over HDBaseT (PoHDBaseT - up to 100W) application
- High quality connectors ensure system reliability and stability by press-fit assembly process
- IEC60603-7 dimensions and structural reliability complied
- L x W x H: 47.6 x 14.0 x 16.6mm

Applications

Wire Gauge (AWG)	Wire O.D. (mm)	Cable O.D. (mm)
23/1-26/7	1.0 – 0.8	5.9 – 4.4

Part No.	Description
ECUFP-C6	CAT6 UTP, patch cord component-rated
ECUFP-C6A	CAT6A UTP, patch cord component-rated

Rotatable UTP Field Term. Plug



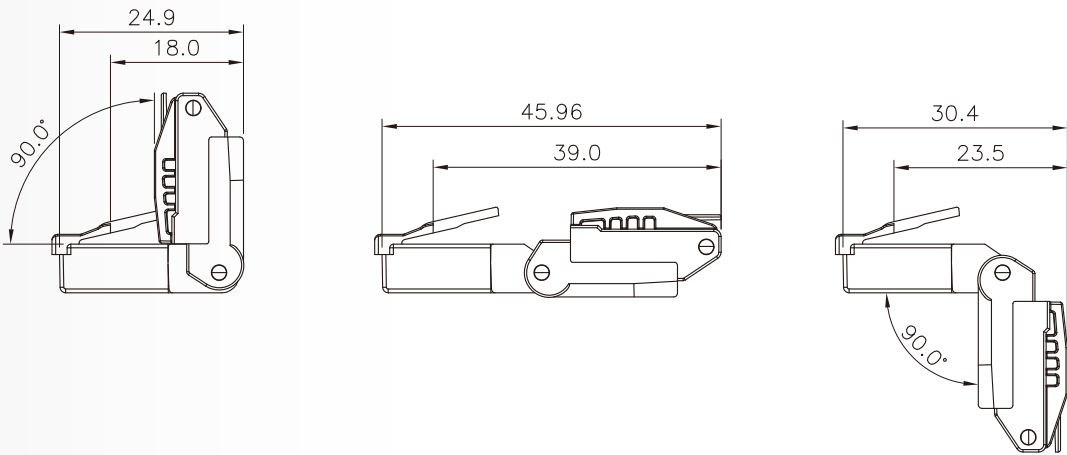
Features

- Simple-to-attach plug for field termination
- IEC60512-99-001 PoE plus 30W capability
- IEEE802.3at application
- CAT6 patch cord component-rated and channel performance
- IEC60603-7 dimensions and structural reliability complied
- Max. width: 14mm

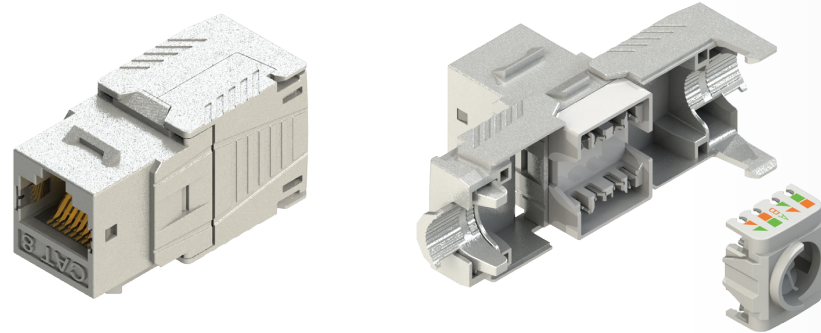
Applications

Wire Gauge (AWG)	Wire O.D. (mm)	Cable O.D. (mm)
24/1-26/7	0.9 – 0.8	5.6 – 5.0

Part No.	Description
ECUFPR-C6	CAT6 UTP, patch cord component-rated, rotatable



FTP Keystone Jack



Features

- GHMT verified CAT8 channel performance
- DELTA verified ISO CAT6A component-rated performance
- GHMT verified IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- CAT8 design to support Ethernet at rates up to 40 Gbps (40GBASE-T) and 25Gbps(25GBASE-T) over distances up to 30 meters for switch-to-server connections in data center
- Power over HDBaseT (PoHDBaseT - up to 100W)
- High quality connectors ensure system reliability and stability by press-fit assembly process
- IEC60603-7 dimensions and structural reliability complied
- Accepts 1U 24-Port and 1U 48-Port keystone panel
- L x W x H: 37.4 x 16.5 x 22.5mm

Applications

Wire Gauge (AWG)	Wire O.D. (mm)	Cable O.D. (mm)
26/7 – 23/1	1.0 - 1.45	6.0 - 7.5
24/7 – 22/1	1.2 - 1.65	7.0 - 8.5

Part No.	Description
KJ58F-C6A-FS	CAT6A FTP, component-rated, tool-less type
KJ58F-C8-FS	CAT8 FTP, channel level, tool-less type

Suitable for easy crimping tool
EPCT P/N : MNNECT-C



Compliance Statement

No. 2018-048



Connecting Hardware, Category 6A

Company

EPCT Corporation
NO. 219, Sec. 3, Dadu Rd.,
Beitou District,
Taipei City 112,
Taiwan (R.O.C.)

Product description

Unscreened Category 6A RJ45 keystone jack characterised up to 500 MHz, 100 Ω

Product identification

KJ28F-C6A-US

Generic cabling and cabling components standards - Category 6A connector requirements

- ☒ ISO/IEC 11801-1:2017 (Ed. 1.0)
- ☒ ISO/IEC 11801-2:2017 (Ed. 1.0)
- ☒ IEC 60603-7-41:2010
- ☒ EN 50173-1:2011
- ☒ EN 50173-2:2007 including amendment A1:2010
- ☒ ANSI/TIA-568-C.2:2009

Technical report

DELTA-T821472-02, DANAK-19/18777

EC Cabling product ID

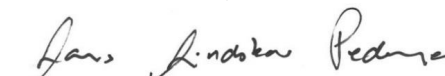
6148

CS valid until

18 January 2019

This product has been tested by DELTA EC Cabling Group and complies with the electrical requirements of the above specified standards and "Terms and conditions for the EC VERIFIED programme for Generic and Coaxial Cabling", DQP231006. The testing included measurement of NEXT with a compliant test plug and calculation of all the 14 test cases in both measurement directions. The product takes part in a maintenance of certification schedule, which implies that DELTA EC Cabling performs a quality audit of the manufacturer's production and QA sites. The maintenance testing of the product is performed on a sample basis once a year.

Hørsholm, 11 January 2018


Lars Lindskov Pedersen
Test Manager


Dennis Andersen
Head of Department

DELTA – a part of FORCE Technology

Venlighedsvej 4
2970 Hørsholm
Denmark

Tel. +45 72 19 40 00
Fax +45 72 19 40 01
www.madebydelta.com/cable



Compliance Statement



No. 2018-047

Connecting Hardware, Category 6A

Company
EPCT Corporation
NO. 219, Sec. 3, Dadu Rd.,
Beitou District,
Taipei City 112,
Taiwan (R.O.C.)

Product description
Screened Category 6A RJ45 Wall Outlets characterised up to 500 MHz, 100 Ω

Product identification
KJ28F-C6A-FS

Generic cabling and cabling components standards - Category 6A connector requirements

- ☒ ISO/IEC 11801-1:2017 (Ed. 1.0)
- ☒ ISO/IEC 11801-2:2017 (Ed. 1.0)
- ☒ IEC 60603-7-51:2010
- ☒ EN 50173-1:2011
- ☒ EN 50173-2:2007 including amendment A1:2010
- ☒ ANSI/TIA-568-C.2:2009

Technical report	EC Cabling product ID	CS valid until
DELTA-T821472-01, DANAK-19/18776	6146	18 January 2019

This product has been tested by DELTA EC Cabling Group and complies with the electrical requirements of the above specified standards and "Terms and conditions for the EC VERIFIED programme for Generic and Coaxial Cabling", DQP231006. The testing included measurement of NEXT with a compliant test plug and calculation of all the 14 test cases in both measurement directions. The product takes part in a maintenance of certification schedule, which implies that DELTA EC Cabling performs a quality audit of the manufacturer's production and QA sites. The maintenance testing of the product is performed on a sample basis once a year.

Hørsholm, 1 January 2018

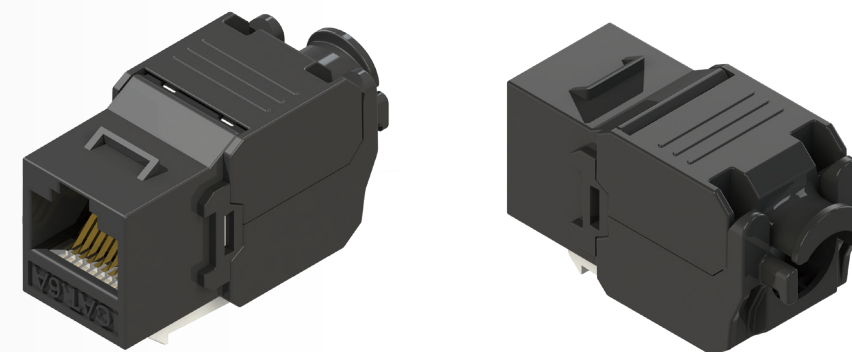
Lars Lindskov Pedersen
Test Manager

Dennis Andersen
Head of Department

DELTA – a part of FORCE Technology
Venlighedsvej 4 Tel. +45 72 19 40 00
2970 Hørsholm Fax +45 72 19 40 01
Denmark www.madebydelta.com/cable



180° Keystone Jack



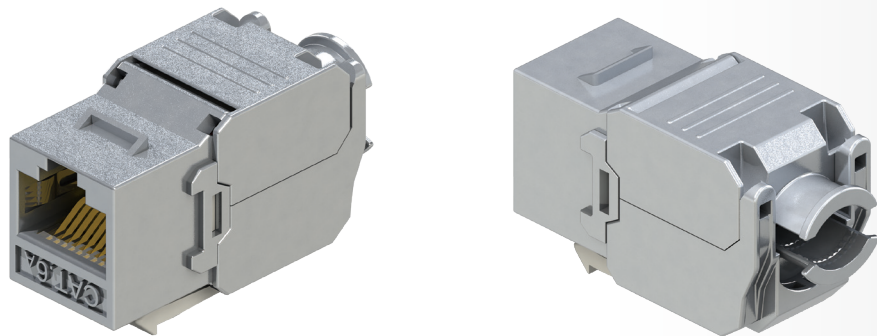
Features

- UL safety listed
- DELTA and ETL verified CAT6 and CAT6A component-rated performance
- DELTA verified IEC60512-99-001 PoE plus 30W
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- Power over HDBaseT (PoHDBaseT - up to 100W)
- High quality connectors ensure system reliability and stability by automation line
- IEC60603-7 dimensions and structural reliability complied
- Fits 1U 24-Port keystone panel
- Suitable for JE easy crimping tool , P/N: ETC-A
- L x W x H: 37.8 x 16.8 x 22.7mm

UTP Tool-less type

Part No.	Description
KJ28F-C6-US-XX	CAT6 component-rated, accepts 23-26AWG
KJ28F-C6A-US-XX	CAT6A component-rated, accepts 23-26AWG
KJ28F-C6-US-XX-22	CAT6 component-rated, accepts 22-23AWG
KJ28F-C6A-US-XX-22	CAT6A component-rated, accepts 22-23AWG
KJ28F-C6-US-XX-28	CAT6 component-rated, accepts 28AWG
KJ28F-C6A-US-XX-28	CAT6A component-rated, accepts 28AWG

180° Keystone Jack



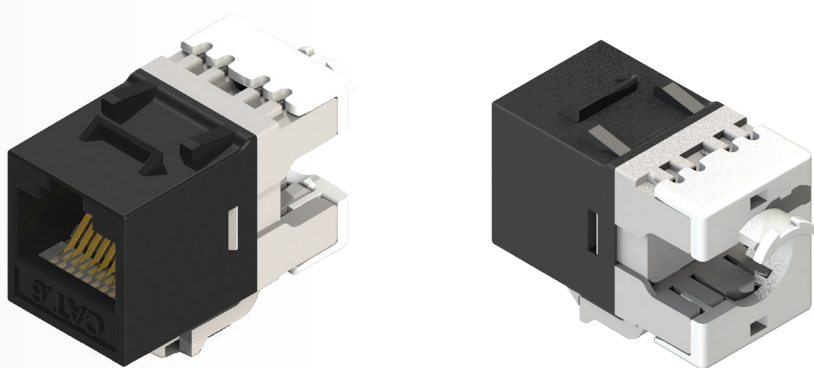
Features

- UL safety listed
- DELTA and ETL verified CAT6 and CAT6A component-rated performance
- DELTA PoE plus 30W IEC60512-99-001 verified
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- Power over HDBaseT (PoHDBaseT - up to 100W)
- High quality connectors ensure system reliability and stability by automation line
- IEC60603-7 dimensions and structural reliability complied
- Fits 1U 24-Port keystone panel
- Suitable for JE easy crimping tool , JE P/N: ETC-A
- L x W x H: 37.8 x 16.0 x 22.7mm

FTP Tool-less type

Part No.	Description
KJ28F-C6-FS	CAT6 component-rated, accepts 23-26AWG
KJ28F-C6A-FS	CAT6A component-rated, accepts 23-26AWG
KJ28F-C7-FS-22	CAT7 channel-rated, accepts 22-23AWG
KJ28F-C6-FS-22	CAT6 component-rated, accepts 22-23AWG
KJ28F-C6A-FS-22	CAT6A component-rated, accepts 22-23AWG
KJ28F-C6-FS-28	CAT6 component-rated, accepts 28AWG
KJ28F-C6A-FS-28	CAT6A component-rated, accepts 28AWG

180° Keystone Jack



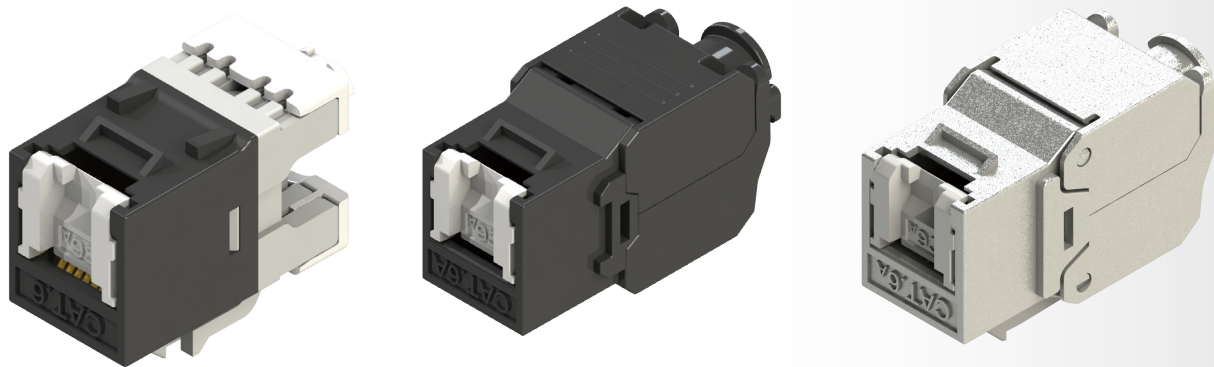
Features

- UL safety listed
- DELTA and ETL verified CAT6 and CAT6A component-rated performance
- DELTA PoE plus 30W IEC60512-99-001 verified
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- Power over HDBaseT (PoHDBaseT - up to 100W)
- High quality connectors ensure system reliability and stability by automation line
- IEC60603-7 dimensions and structural reliability complied
- Fits 1U 24-Port, 1U 48-Port and 0.5U 24-Port keystone panel
- Suitable for 110 and KRONE punch-down tool
- L x W x H: 31.6 x 14.5 x 21.8mm

UTP Punch-down type

Part No.	Description
KJ28-C6-US-XX	CAT6 UTP, component-rated, punch-down type

180° Keystone Jack



Features

- UL safety listed
- DELTA and ETL verified CAT6 and CAT6A component-rated performance
- DELTA PoE plus 30W IEC60512-99-001 verified
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- Power over HDBaseT (PoHDBaseT - up to 100W)
- High quality connectors ensure system reliability and stability by automation line
- IEC60603-7 dimensions and structural reliability complied
- Fits 1U 24-Port keystone panel
- Suitable for easy crimping tool , P/N: ETC-A
- L x W x H: 37.8 x 16.0 x 22.7mm
- Dust-prevent shutter



UTP Punch-down type

Part No.	Description
KJ88-C6-US-XX-D	CAT6 UTP, component-rated, dust-prevent shutter

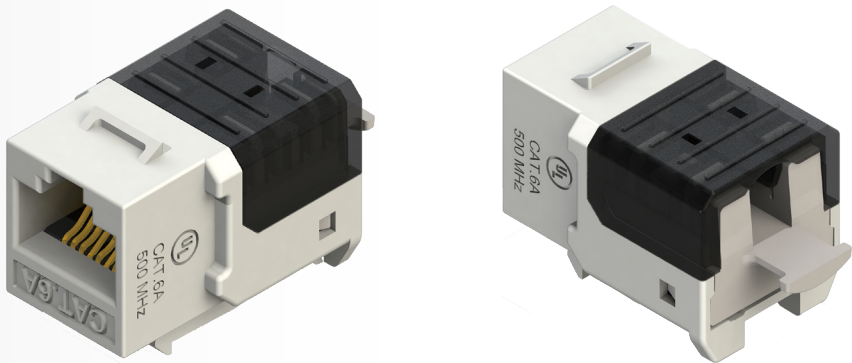
UTP Tool-less type

Part No.	Description
KJ88F-C6-US-XX-D	CAT6 component-rated, accepts 23-26AWG, dust-prevent shutter
KJ88F-C6A-US-XX-D	CAT6A component-rated, accepts 23-26AWG, dust-prevent shutter

FTP Tool-less type

Part No.	Description
KJ88F-C6-FS-D	CAT6 component-rated, accepts 23-26AWG, dust-prevent shutter
KJ88F-C6A-FS-D	CAT6A component-rated, accepts 23-26AWG, dust-prevent shutter

90° Keystone Jack



Features

- UL safety listed
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- Power over HDBaseT (PoHDBaseT - up to 100W)
- IEC60603-7 dimensions and structural reliability complied
- Accepts copper wire gauge 23AWG to 26AWG
- Accepts cable O.D. 5.0 to 8.0mm
- High quality connectors ensure system reliability and stability by full automation line
- L x W x H: 34.0 x 18.0 x 22.0mm
- Fits 1U 24-Port, 1U 48-Port and 0.5U 24-Port keystone panel
- Suitable for 110 punch-down tool

Punch-down type

Part No.	Description
KJ32-C6-US-XX	CAT6 UTP, component-rated, punch-down type
KJ32-C6A-US-XX	CAT6A UTP, component-rated, punch-down type

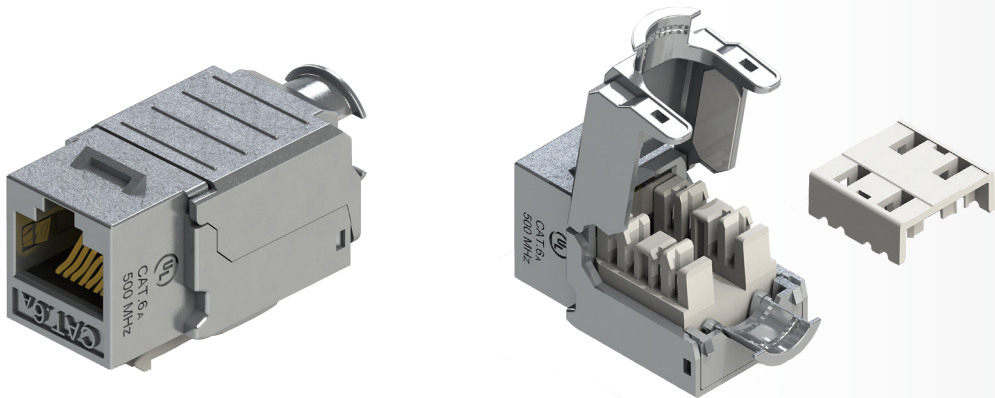
- Suitable for 110 punch-down tool

Tool-less type

Part No.	Description
KJ32F-C6-US	CAT6 UTP, component-rated, tool-less type
KJ32F-C6A-US	CAT6A UTP, component-rated, tool-less type

- Suitable for easy crimping tool, P/N: ETC-B

90° Keystone Jack



Features

- UL safety listed
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- Power over HDBaseT (PoHDBaseT - up to 100W)
- IEC60603-7 dimensions and structural reliability complied
- Accepts copper wire gauge 23AWG to 26AWG
- Accepts cable O.D. 5.0 to 8.0mm
- High quality connectors ensure system reliability and stability by full automation line
- L x W x H: 34.0 x 18.0 x 22.0mm
- Fits 1U 24-Port, 1U 48-Port and 0.5U 24-Port keystone panel

Punch-down type

Part No.	Description
KJ32-C6-FS	CAT6 FTP, component-rated, punch-down type
KJ32-C6A-FS	CAT6A FTP, component-rated, punch-down type

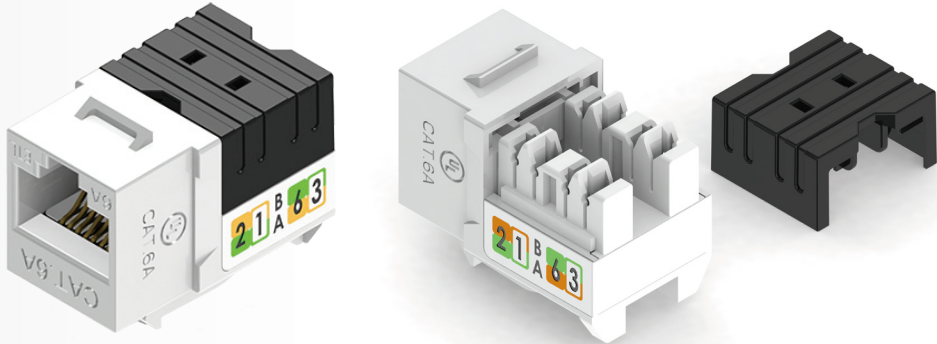
- Suitable for 110 punch-down tool

Tool-less type

Part No.	Description
KJ32F-C6-FS	CAT6 FTP, component-rated, tool-less type
KJ32F-C6A-FS	CAT6A FTP, component-rated, tool-less type

- Suitable for easy crimping tool, P/N: ETC-B

Slim Type 90° Keystone Jack



Features

- UL safety listed
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- Power over HDBaseT (PoHDBaseT - up to 100W)
- IEC60603-7 dimensions and structural reliability complied
- Accepts copper wire gauge 23AWG to 26AWG
- Accepts cable O.D. 5.0 to 8.0mm
- High quality connectors ensure system reliability and stability by full automation line
- L x W x H: 27.9 x 16.5 x 21.5mm
- Fits for Leviton Decora wall plates
- Fits 1U 24-Port, 1U 48-Port and 0.5U 24-Port keystone panel
- Suitable for 110 punch-down tool

Part No.	Description
KJ38-C6-US	Slim type, CAT6 UTP, component-rated, punch-down type
KJ38-C6A-US	Slim type, CAT6A UTP, component-rated, punch-down type

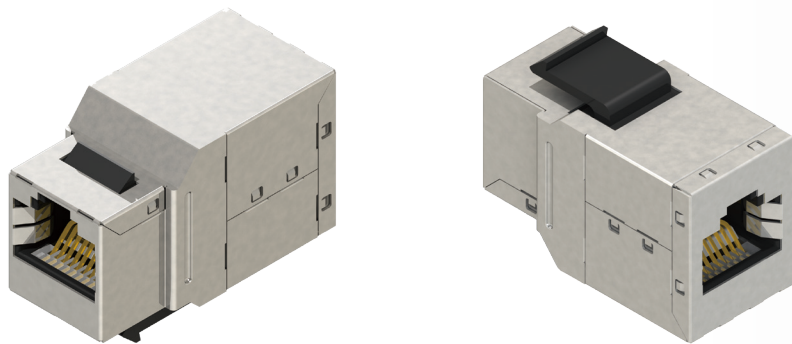


Full Automation Line

In-line Coupler - Keystone Jack Type

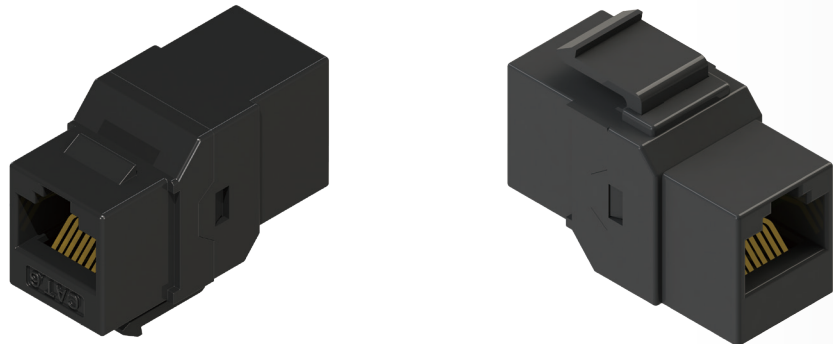
Features

- ETL verified CAT6A channel performance
- UL safety listed
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- Power over HDBaseT (PoHDBaseT - up to 100W)
- IEC60603-7 dimensions and structural reliability complied
- Fits for 1U 24-Port keystone jack flat panel
- High quality connectors ensure system reliability and stability by automation line



Part No.	Description
EC8402BS-C6	CAT6 FTP, in-line coupler keystone type
EC8402BS-6A	CAT6A FTP, in-line coupler keystone type

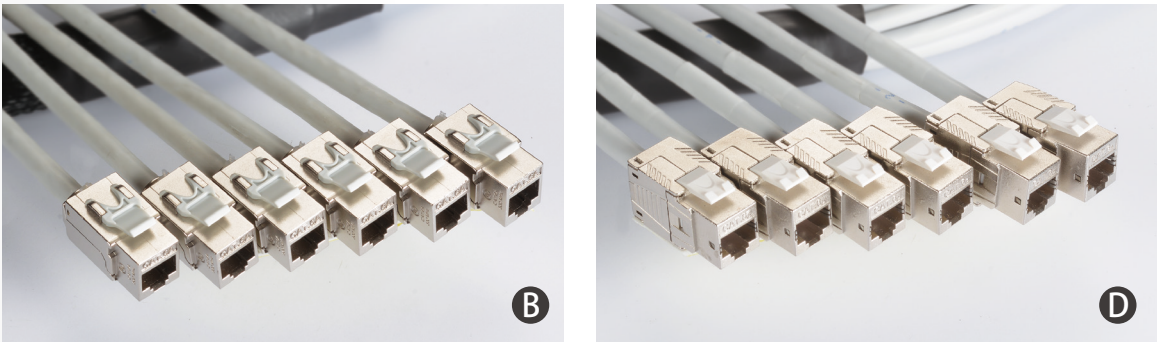
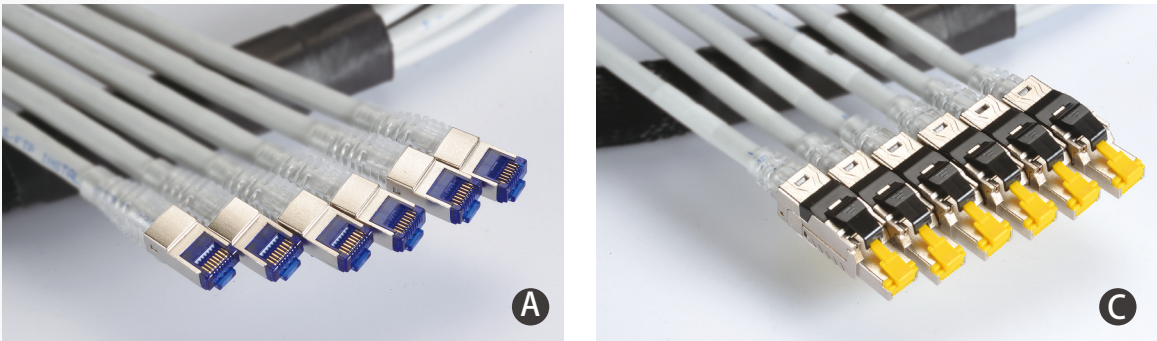
- L x W x H: 35.2 x 17.1 x 24.5mm
- This in-line coupler is not suitable for V angled keystone pane



Part No.	Description
EC8402B-C6	CAT6 UTP, in-line coupler keystone type

- L x W x H: 35.0 x 16.3 x 24.7mm
- This in-line coupler is not suitable for V angled keystone pane

Pre-Terminated Copper Trunk Assembly



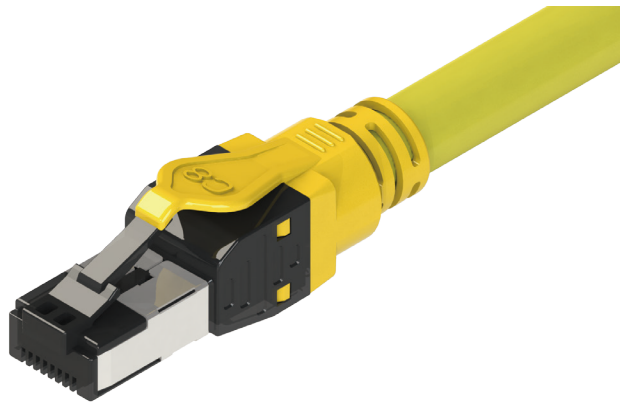
Features

- CAT8 design to support Ethernet at rates up to 40 Gbps (40GBASE-T) and 25Gbps(25GBASE-T) over distances up to 30 meters for switch-to-server connections in data center
- Power over HDBaseT (PoHDBaseT - up to 100W)
- High quality connectors ensure system reliability and stability
- Private ID serial number is on each trunk cable
- Cable assemblies are tested to help ensure that every installation is efficient
- 100% Fluke tested each cord
- 100% AOI inspection on each crimped plug
- IEC60603-7 dimensions and structural reliability complied
- CM / CMR, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available
- Braided mesh sleeve keeps the cable neat and promotes better airflow

	Description
A	6ports Trunk assembly, CAT6A SFTP 23AWG solid wires cable, solid wire plug
B	6ports Trunk assembly, CAT6A SFTP 23AWG solid wires cable, KJ32
C	6ports Trunk assembly, CAT6A SFTP 23AWG solid wires cable, field Term. plug 6ports Trunk assembly, CAT8 SFTP 22AWG solid wires cable, field Term. plug
D	6ports Trunk assembly, CAT6A SFTP 23AWG solid wires cable, KJ58 6ports Trunk assembly, CAT8 SFTP 22AWG solid wires cable, KJ58

• Length available: 5M to 90M

CAT8 Factory Manufacture Patch Cord



Features

- GHMT verified CAT8 channel performance
- GHMT verified IEC60512-99-002 PoE type III 60W and type IV 100W capability
- Support Ethernet at rates up to 40 Gbps (40GBASE-T) and 25Gbps(25GBASE-T) over distances up to 30 meters for switch-to-server connections in data center
- Power over HDBaseT (PoHDBaseT - up to 100W)
- IEC60603-7 and IEC61935-2 dimensions and structural reliability complied
- Cable assemblies are 100% Fluke tested to help ensure every installation is efficient
- High quality connectors ensure system reliability and stability by press-fit assembly process
- CM / CMR, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available

Part No.	Description
ECFPM-C8-FS-S22-XX	CAT8 FTP, factory manufacture plug, CAT8 22AWG solid copper wires
ECFPM-C8-FS-T24-XX	CAT8 FTP, factory manufacture plug, CAT8 24AWG stranded copper wires

• Length available: 1M to 5M

Copper Patch Cord

24-26AWG series



SR type: SR-V86



SR type: SR-V86

Features

- CAT6 and CAT6A patch cord component-rated and channel performance
- CAT 6A patch cord provides exceptional alien crosstalk (AXT) suppression
- UL444-LP 192 cables 0.5A and TSB-184-A 37cables 100W
- IEC60512-99-002 POE type III 60W and IV 100W capability
- Bare copper material for cable conductors.
- CM, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available
- IEC60603-7 and IEC61935-2 dimensions and structural reliability complied
- PC UL94V-0 or V-2 for plug material, Min. 50micro-inch gold plating on plug contact area
- Clear color boot

	Description
A	CAT6 UTP patch cord, 24AWG, SR-V86 clear boot
B	CAT6 F/UTP patch cord, 26AWG, SR-V86 clear boot
	CAT6 U/FTP patch cord, 26AWG, SR-V86 clear boot
	CAT6 S/FTP patch cord, 26AWG, SR-V86 clear boot
	CAT6A F/UTP patch cord, 26AWG, SR-V86 clear boot
	CAT6A F/UTP patch cord, 26AWG, SR-V86 clear boot, UTP Plug
	CAT6A U/FTP patch cord, 26AWG, SR-V86 clear boot
	CAT6A S/FTP patch cord, 26AWG, SR-V86 clear boot
	CAT7 S/FTP patch cord, 26AWG, SR-V86 clear boot

• Length available: 0.5M to 20M

Copper Patch Cord

28AWG series



SR type: SR-V96



SR type: SR-V86

Features

- CAT6 and CAT6A patch cord component-rated performance
- CAT 6A patch cord provides exceptional alien crosstalk (AXT) suppression
- The cable Insertion Loss de-rating vector less than 1.9
- UL444-LP 192 cables 0.3A and TSB-184-A 37cables 60W
- IEC60512-99-002 POE type III 60W and IV 100W capability
- Bare copper material for cable conductors
- CM, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available
- IEC60603-7 and IEC61935-2 dimensions and structural reliability complied
- PC UL94V-0 or V-2 for plug material, Min. 50micro-inch gold plating on plug contact area
- Clear color boot

Description

CAT6 UTP patch cord, 28AWG, SR-V96 clear boot
CAT6 U/FTP patch cord, 28AWG, SR-V86 clear boot
CAT6A U/FTP patch cord, 28AWG, SR-V86 clear boot
CAT6A U/FTP patch cord, 28AWG, SR-V86 clear boot, UTP plug

• Length available: 0.5M to 10M

Copper Patch Cord

Feed through series



C5E UTP



C6 UTP



Crimping Tool

Features

- Perfect CAT5E and CAT6 performance
- Low labor cost by easily and quickly assembly
- Crimping tool available

Description

Feed through plug:
CAT5E UTP plug, 1 piece type
CAT6 UTP plug, 1 piece type
Patch cord:
CAT5E UTP patch cord, feed through plug, component-rated and channel performance
CAT6 UTP patch cord, feed through plug, component-rated and channel performance

• Length available: 0.5M to 20M

Easy Tool to Crimp



MNNECT-A



MNNECT-B



MNNECT-C



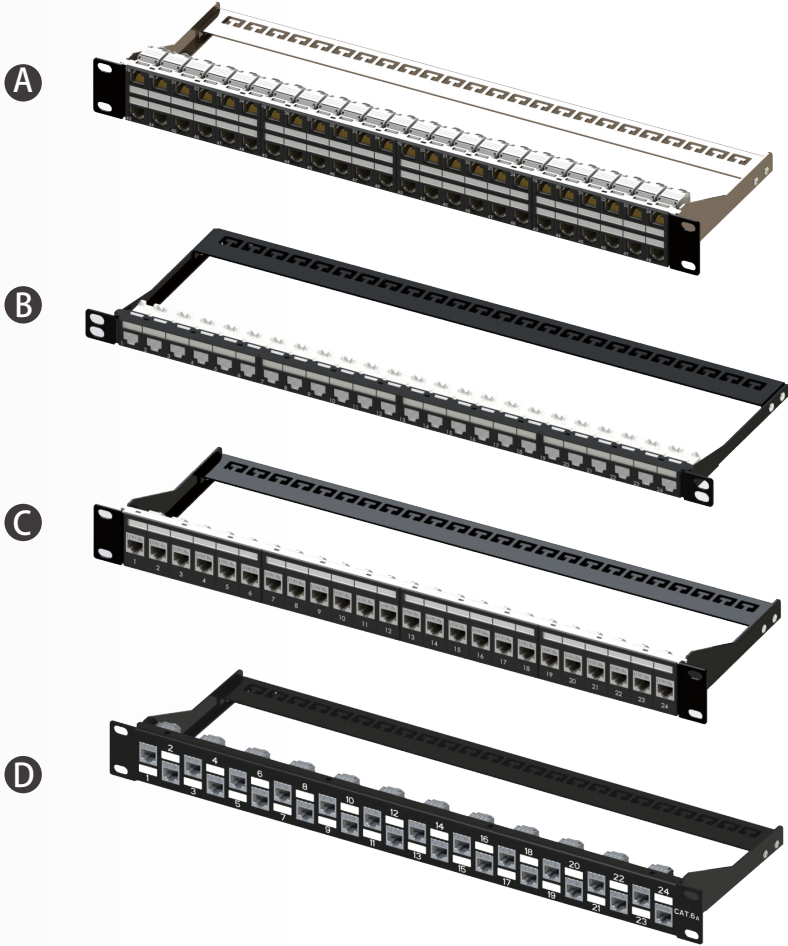
Features

- Light weight by plastic material design
- Economic solution for keystone jack and field Term. plug installation

Part No.	Description
MNNECT-A	Black Die color, for KJ18F, KJ28F, KJ36F and KJ88F
MNNECT-B	Yellow Die color, for KJ32F and FP series Plug
MNNECT-C	Grey Die color, for KJ58F

• Length available: 1M to 5M

High Density Snap-in Keystone Panel



Part No.	Description
A	
ECHPPKJ48	1U 48-Port keystone panel, UTP type
ECHPPKJF48	1U 48-Port keystone panel, FTP type
Accepts keystone jack type: KJ32, KJ32F, KJ28, KJ38, KJ58F	
B	
ECHPPKJ24	0.5U 24-Port keystone panel, UTP type
ECHPPKJF24	0.5U 24-Port keystone panel, FTP type
Accepts keystone jack type: KJ28, KJ32, KJ32F, KJ38	
C	
ECPPKJ24	1U 24-Port keystone panel, UTP type
ECPPKJF24	1U24-Port keystone panel, FTP type
Accepts keystone jack type: KJ18, KJ18F, KJ28, KJ28F, KJ32, KJ32F, KJ36F, KJ38, KJ58F, KJ88F, EC8402B, EC8402BS	
D	
ECPKJF24	1U 24-Port keystone panel, staggered port, FTP type
Accepts keystone jack type: KJ18, KJ18F, KJ28, KJ28F, KJ32, KJ32F, KJ36F, KJ38, KJ58F, KJ88F, EC8402B, EC8402BS	

* The keystone jacks were not included in above items

Foldable Angled Keystone Panel



Features

- High-density angled panel eliminates need for horizontal managers, allowing patch cords to flow directly into vertical management
- Saving 60% room for stock, package and transportation
- Front panel is optional with solid steel or plastic panel

Part No.	Description
A	Package size L x W x H: 285 x 85 x 55mm
ECVKJ24	Foldable 1U 24-Port keystone jack panel, UTP type, solid steel front panel
ECVKJF24	Foldable 1U 24-Port keystone jack panel, FTP type, solid steel front panel
Accepts keystone jack type: KJ18, KJ18F, KJ28, KJ28F, KJ32, KJ32F, KJ36F, KJ38, KJ58F and KJ88F	
B	Package size L x W x H: 285 x 85 x 110mm
ECVKJ48	Foldable 2U 48-Port keystone jack panel, UTP type, solid steel front panel
ECVKJF48	Foldable 2U 48-Port keystone jack panel, FTP type, solid steel front panel
Accepts keystone jack type: KJ18, KJ18F, KJ28, KJ28F, KJ32, KJ32F, KJ36F, KJ38, KJ58F and KJ88F	
C	Package size L x W x H: 285 x 85 x 65mm
ECHVKJ48	Foldable 1U 48-Port keystone jack panel, UTP type, solid steel front panel
ECHVKJF48	Foldable 1U 48-Port keystone jack panel, FTP type, solid steel front panel
Accepts keystone jack type: KJ32, KJ32F, KJ28, KJ38, KJ58F	
In-line coupler EC8402B, EC8402BS were not suitable for angled keystone panel	

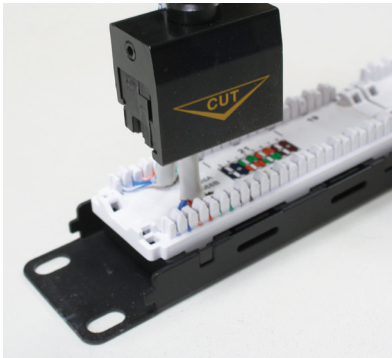
* The keystone jacks were not included in above items

UTP PCB Module Patch Panel



Features

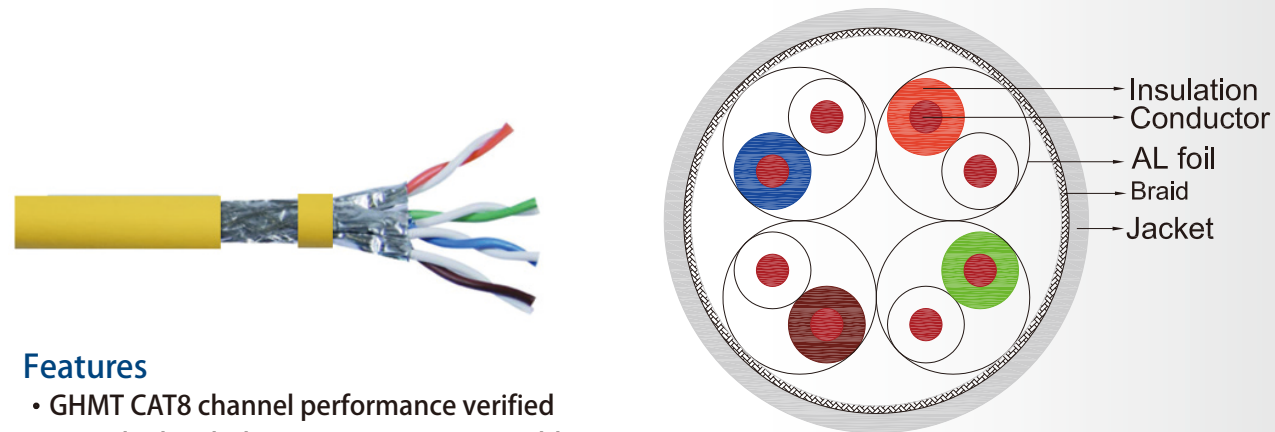
- High headroom on CAT6 permanent link performance
- UL safety listed
- IEC60512-99-002 PoE type III 60W and IV 100W capability
- IEEE802.3bt type III and IV application
- Power over HDBaseT (PoHDBaseT - up to 100W)
- IEC60603-7 dimensions and structural reliability complied
- Accepts copper wire gauge 23AWG to 26AWG
- Standard 110 IDC works with 5-pair punch down tool
- High quality connectors ensure system reliability and stability by automation line



5-pair punch down tool

Part No.	Description
II ECPN24T-C6	CAT6 UTP Patch panel, 19" 1U 24-Port, modular type
II ECPN48T-C6	CAT6 UTP Patch panel, 19" 2U 48-Port, modular type
II ECPNMV12T-C6	CAT6 Patch panel, modular type, mini vertical 12-Port, wall mounted with 89D bracket

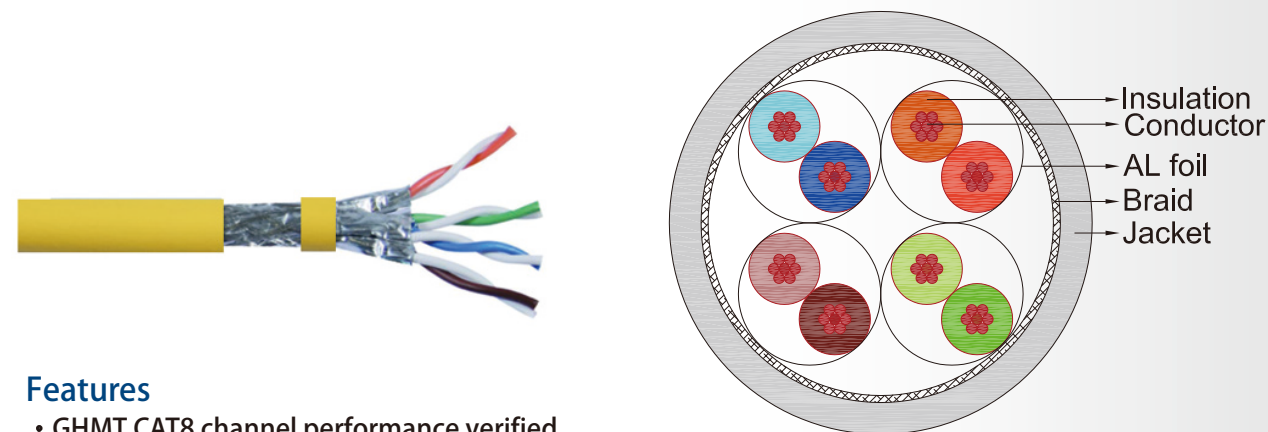
CAT8 22AWG S/FTP solid wires



Features

- GHMT CAT8 channel performance verified
- Complied with the IEC61156-9 CAT8.2 cable requirement
- IEEE802.3bt PoE type III 60W and IV 100W applications
- 22AWG solid copper wire, Skin-Foam-Skin Polyethylene isolation OD 1.64mm
- Aluminum foil around each pair, Tin plated copper braid for overall screen
- CM, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available
- OD 8.4mm
- 305meters or 500meters in wooden reel

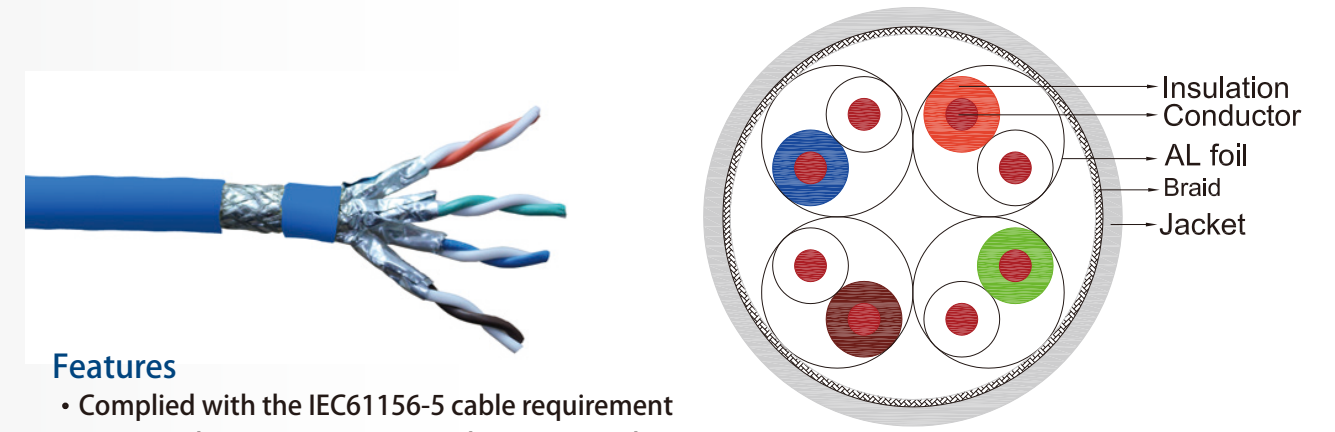
CAT8 24AWG S/FTP stranded wires



Features

- GHMT CAT8 channel performance verified
- Complied with the IEC61156-10 CAT8.1 cable requirement
- IEEE802.3bt PoE type III 60W and IV 100W applications
- 24AWG stranded copper wire, Skin-Foam-Skin Polyethylene isolation OD 1.40mm
- Aluminum foil around each pair, Tin plated copper braid for overall screen
- CM, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available
- OD 7.4mm
- 305meters or 500meters in wooden reel

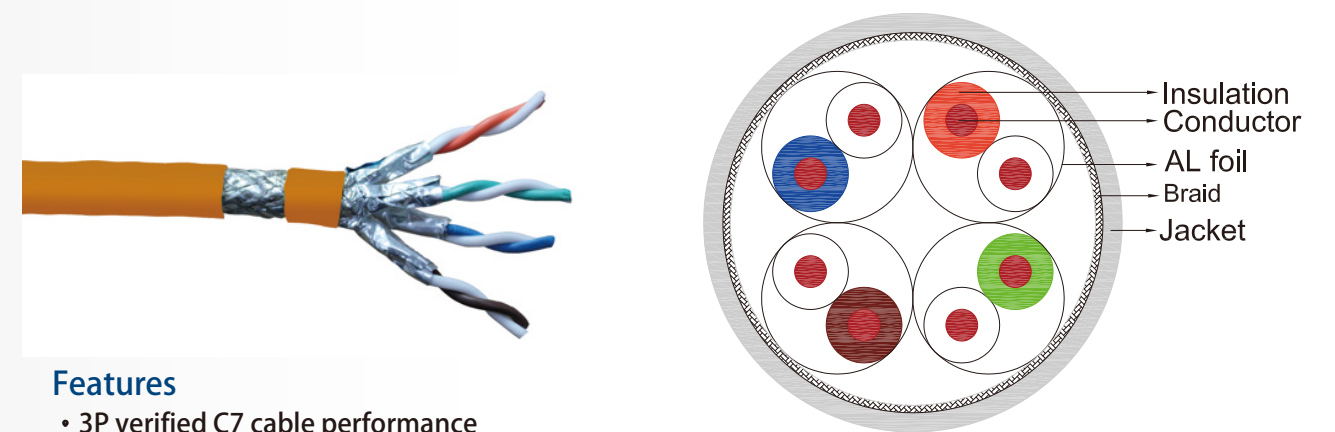
CAT7A 23AWG S/FTP solid wires



Features

- Complied with the IEC61156-5 cable requirement
- IEEE802.3bt PoE type III 60W and IV 100W applications
- 23AWG solid copper wire, Skin-Foam-Skin Polyethylene isolation OD 1.34 mm
- Aluminum foil around each pair, Tin plated copper braid for overall screen
- CM, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available
- OD 7.3 mm
- 305meters or 500meters in wooden reel

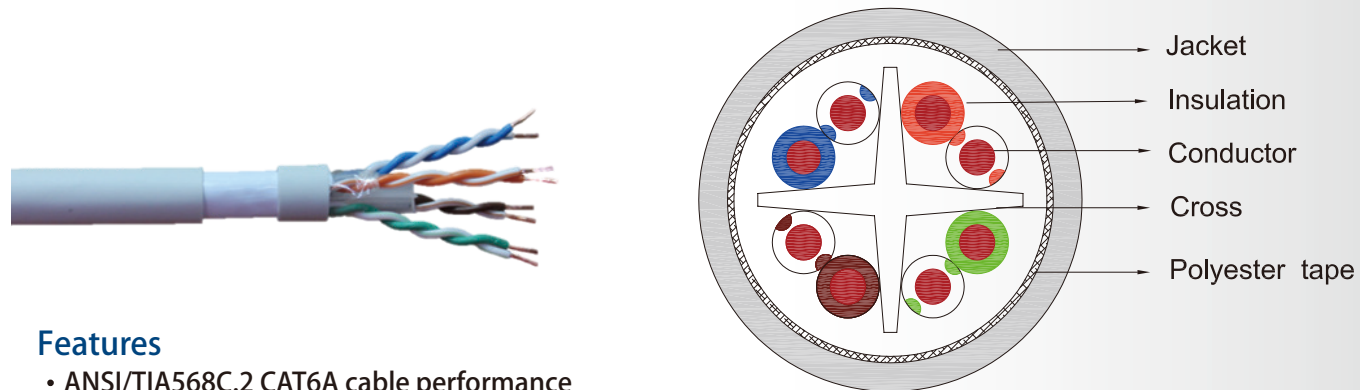
CAT7 23AWG S/FTP solid wires



Features

- 3P verified C7 cable performance
- Complied with the IEC61156-5 cable requirement
- IEEE802.3bt PoE type III 60W and IV 100W applications
- 23AWG solid copper wire, Skin-Foam-Skin Polyethylene isolation OD 1.34 mm
- Aluminum foil around each pair, Tin plated copper braid for overall screen
- CM, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available
- OD 7.3 mm
- 305meters or 500meters in wooden reel

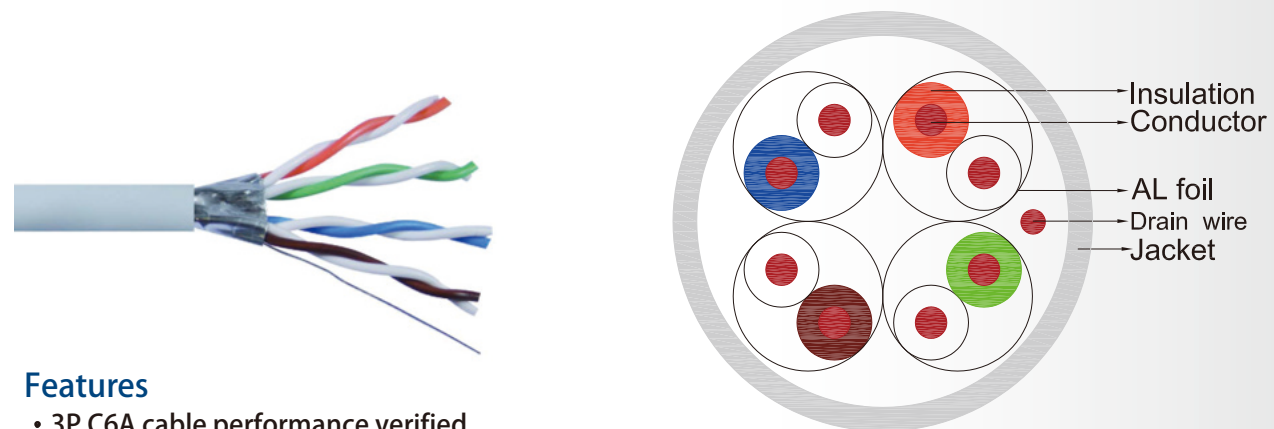
CAT6A UTP 23AWG solid wires



Features

- ANSI/TIA568C.2 CAT6A cable performance
- UTP cable structure with special isolation element in polyester tape
- IEEE802.3bt PoE type III 60W and IV 100W applications
- 23AWG solid copper wires, Polyethylene isolation OD 1.14 mm
- CM, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available
- OD 7.5 mm
- 305meters or 500meters in wooden reel

CAT6A U/FTP 23AWG solid wires



Features

- 3P C6A cable performance verified
- Complied with the IEC61156-5 cable requirement
- IEEE802.3bt PoE type III 60W and IV 100W applications
- 23AWG solid copper wire, Skin-Foam-Skin Polyethylene isolation OD 1.34 mm
- Aluminum foil around each pair, Tin plated copper drain wire
- CM, LSZH (IEC60332-1-2 / IEC 60332-3-24) and CM-LSZH dual rated jacket are available
- OD 7.3 mm
- 305meters or 500meters in wooden reel

CAT6A Channel Configuration



According to ANSI/TIA 568C.2

ID	Description
A	Cables and cords
C, D	Work area cord
B	Patch cord / Equipment cord
TO	Horizontal cabling
C1, C2	Connecting hardware
Max. 10m	Telecommunications outlet
Max. 90m	Horizontal cross-connect or Interconnect
	Maximum length
	A+C+D
	B

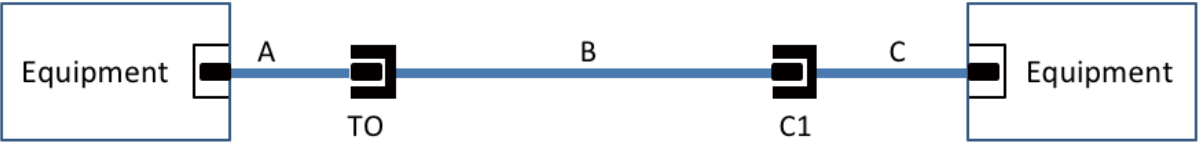
C6A UTP channel

ID	Description
A, C, D	CAT6A F/UTP 26AWG patch cord, UTP plug, 1 to 10m, see page 44
B	CAT6A UTP 23AWG solid wires horizontal cable with special isolation element
TO, C1, C2	CAT6A UTP keystone jack, P/N KJ28, KJ32, KJ38, KJ88F and EC8402B are available
	Wall plate, 12 port, P/N: EC8201A-2V12/XX
	1U 24port FTP Keystone Panel, staggered port, P/N: ECKJAF24A

C6A FTP channel

ID	Description
A, C, D	CAT6A F/UTP 26AWG patch cord, STP plug, 1 to 10m, see page 44
B	CAT6A U/FTP 23AWG solid wires horizontal cable
TO, C1, C2	CAT6A FTP keystone jack, P/N KJ28, KJ32, KJ38, KJ88F and EC8402BS are available
	Wall plate, 12 port, P/N: EC8201A-2V12/XX
	1U 24port FTP Keystone Panel, staggered port, P/N: ECKJAF24A

CAT.7 Channel Configuration

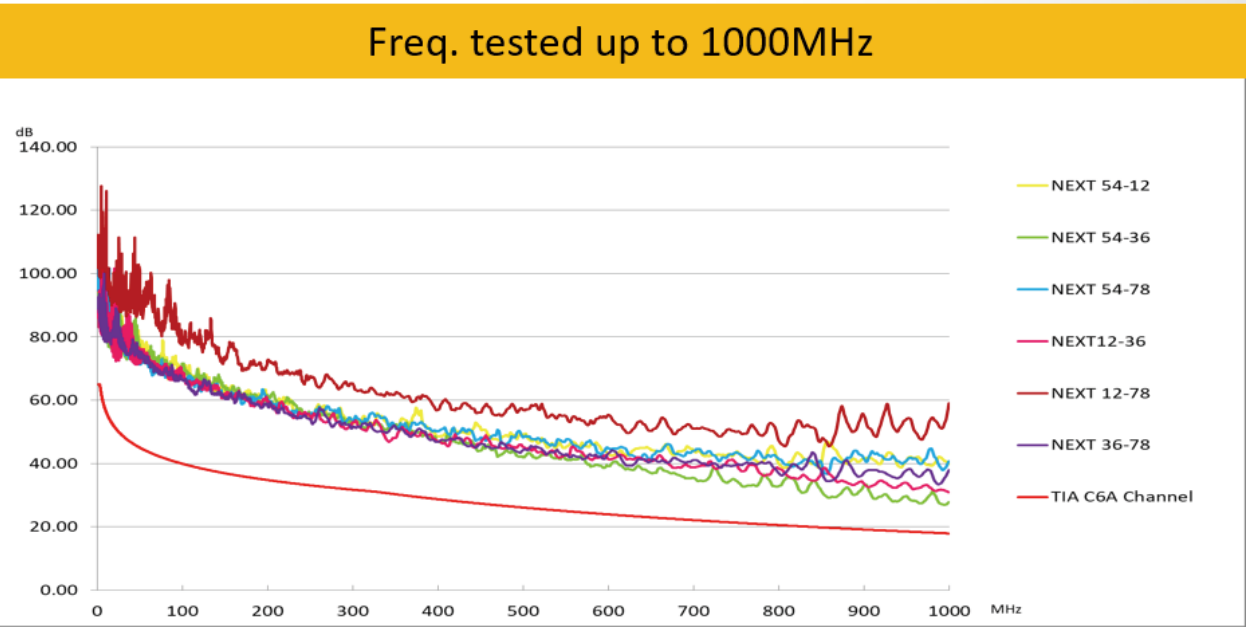


According to ANSI/TIA 568C.2

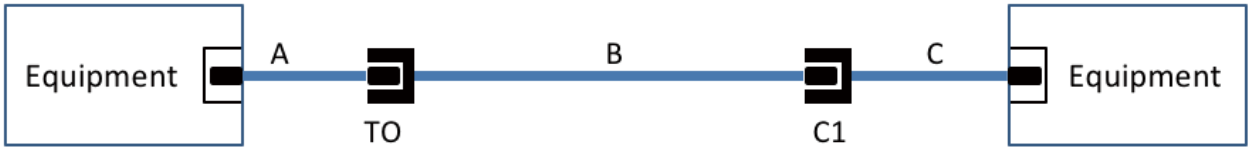
ID	Description
A	Cables and cords
C	Work area cord
B	Patch cord / Equipment cord
	Horizontal cabling
TO	Connecting hardware
C1	Telecommunications outlet
	Horizontal cross-connect or Interconnect
Max. 10m	Maximum length
Max. 90m	A+C
	B

C6A UTP channel

ID	Description
A, C	CAT7 S/FTP 26AWG stranded wires patch cord, 1 to 10m, see page 44
B	CAT7 S/FTP 23AWG solid wires horizontal cable
TO, C1	CAT7 FTP keystone jack, P/N: KJ28F-C7-FS-22



28AWG Channel Configuration



According to ANSI/TIA 568.2-D

ID	Description
A	Cables and cords
C	Work area cord
B	Patch cord / Equipment cord
	Horizontal cabling
TO	Connecting hardware
C1	Telecommunications outlet
	Horizontal cross-connect or Interconnect
Max. 10m	Maximum length
Max. 90m	A+C
	B

Table 1

The channel length information at 20 °C		
Length of 28AWG patch cord(meters)	Maximum permanent link length 23AWG (meters)	Maximum channel length(meters)
6	90	96
10	83	93
	28 AWG (meters)	
6	40	46
10	40	50

28AWG Products Information

CAT6 UTP

ID	Products description
A, C	CAT6 UTP patch cord, 28AWG stranded wires, 1 to 10m
B	CAT6 horizontal cable: CAT6 UTP 23AWG solid wires 90m, or CAT6 UTP 28AWG solid wires 40m
TO, C1	For 28AWG solid wires: CAT6 UTP Tool-free keystone jack 28AWG type, P/N: KJ28F-C6-US-XX-28

CAT6 STP

ID	Products description
A, C	CAT6 U/FTP patch cord, 28AWG stranded copper wires, 1 to 10m
B	CAT6 horizontal cable: CAT6 U/FTP 23AWG solid wires 90m, or CAT6 U/FTP 28AWG solid wires 40m
TO, C1	For 28AWG solid wires: CAT6 FTP Tool-free keystone jack 28AWG type, P/N: KJ28F-C6-FS-28

CAT6A UTP

ID	Products description
A, C	CAT6 U/FTP patch cord, 28AWG copper wires, UTP plug, 1 to 10m
B	CAT6A horizontal cable: CAT6A UTP 23AWG solid wires with special isolation element, 90m, or CAT6A U/FTP 28AWG solid wires, 40m
TO, C1	For 28AWG solid wires: CAT6 UTP Tool-free keystone jack 28AWG type, P/N: KJ28F-C6A-US-XX-28

CAT6A STP

ID	Products description
A, C	CAT6A U/FTP patch cord, 28AWG stranded copper wires, 1 to 10m
B	CAT6A horizontal cable: CAT6A U/FTP 23AWG solid wires 90m, or CAT6A U/FTP 28AWG solid wires 40m
TO, C1	For 28AWG solid wires: CAT6A FTP Tool-free keystone jack 28AWG type, P/N: KJ28F-C6A-FS-28

PRODUCT CATALOG 2018



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