MCC
Major Custom Cable

"Major Custom Cable is the industry leader in cable assembly manufacturing. At MCC our goal is to exceed your expectations for cable products and customer service."

At Major Custom Cable:

- Real people answer your calls, not automated attendants
- Quotes and orders are processed by professional Account Managers
- Our experienced and knowledgeable Customer Service and Technical Representatives are ready to assist you
- Custom assembly projects are welcome
- Competitive prices
- No minimum or maximum orders
- Orders ship in three days or less
- Every cable is 100% tested
- Free blind drop shipments
- Modern production facility is ISO 9001:2008 Certified
- Quality and experience since 1990

If you are a MCC customer we sincerely thank you for your business and look forward to working with you again soon. If you are not a MCC customer we encourage you to call today. See for yourself the difference quality products and great service from the professionals at MCC will make for you.

INDEX

MULTIMODE FIBER OPTIC CABLE

Check List:

- SIMPLEX or DUPLEX?
- FIBER TYPE (62.5/125, 50/125 or 50/125 10gig)?
- CONNECTOR TYPE?
- JACKET (PVC, PLENUM or LSZH)
- LENGTH?
- PULLING EYE?
- CUSTOM LABELS (SHRINK or LABEL)?
- JACKET OD (3.0MM, 2.0MM, 1.6MM)?

- **Fiber optic patch cables connect fiber optic equipment to optical cross connects, patch panels, and data outlets within the telecommunications closet, equipment rooms and work areas.**
- **Total immunity to electrical interference**
- **Multimode fiber assemblies are 100% tested**
- **Can be factory installed in innerduct**
- **Variety of jacket colors available**
- **Your choice of name brand or globally sourced components.**

Connector Types

MU

OPTIPLUG

MTRJ with Pins

OPTIJACK

MTRJ without Pins

Uniboot LC

SC clipped

LC clipped

SC

FC

ST

ESCON

Variety of Jacket Colors Available!

FDDI

SMA 905

SMA 906

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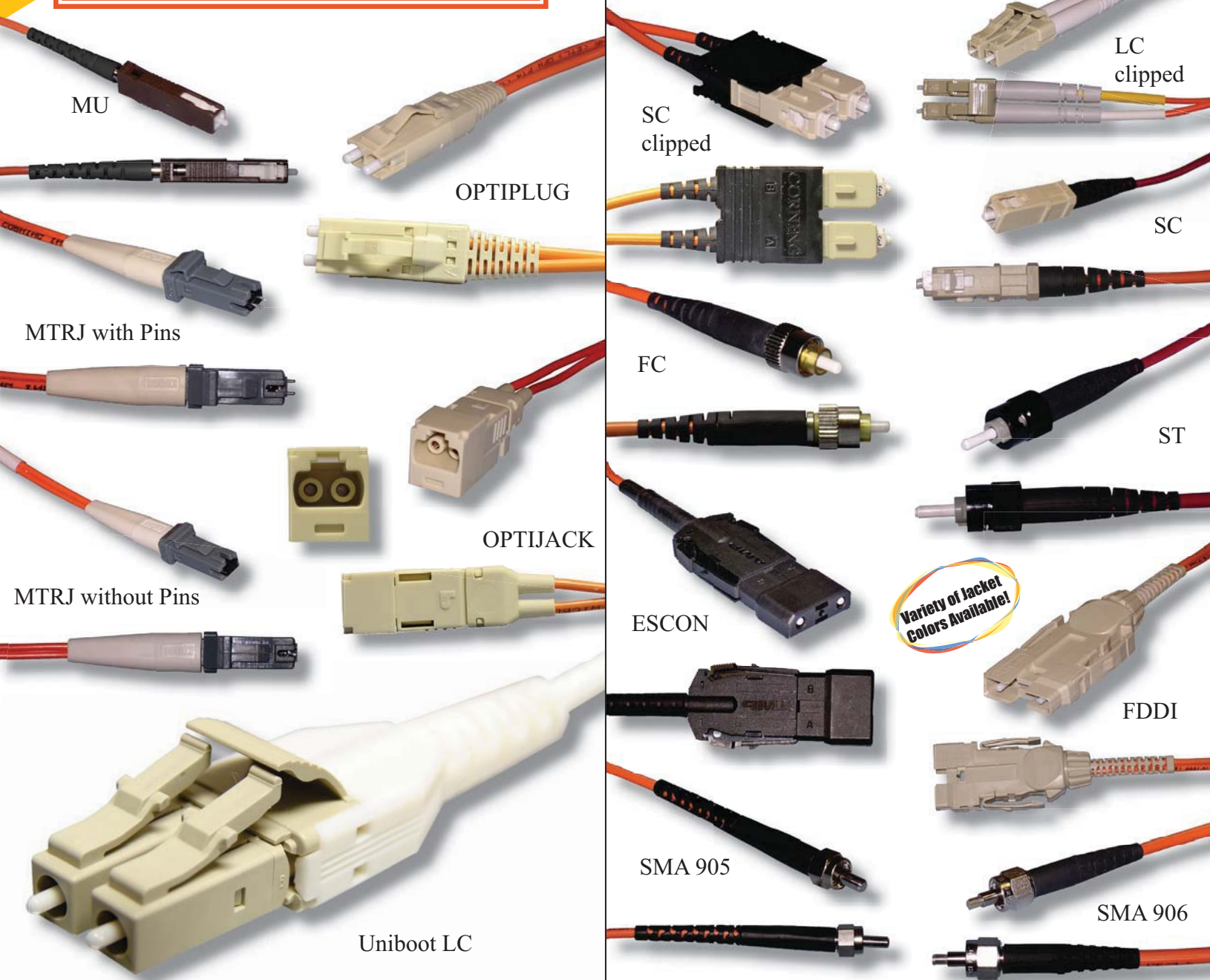
MCC
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Physical Contact

SC clipped

SC

FC

LC clipped

MU

ST

D4
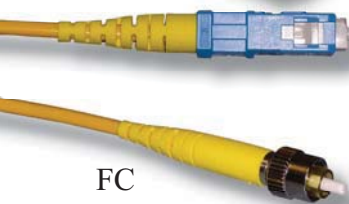
Ultra Polish

LCU clipped

STU

FCU

SCU

Angle Polish

LCA clipped

FCA
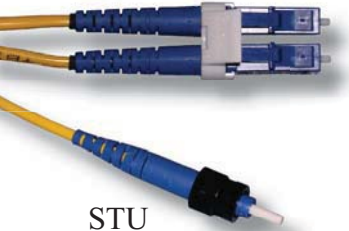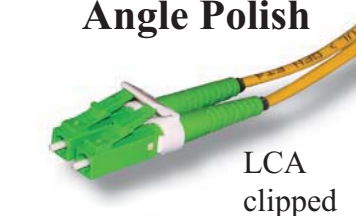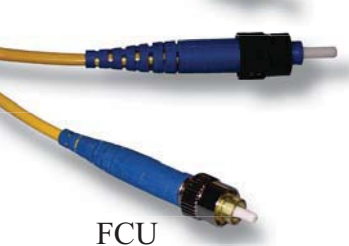
SCA

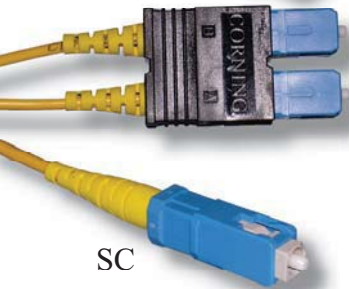### Check List:

- SIMPLEX or DUPLEX?
- POLISH (STANDARD, ULTRA, or ANGLE)?
- JACKET (PVC, PLENUM or LSZH)?
- LENGTH?
- PULLING EYE?
- CUSTOM LABELS (SHRINK or LABEL)?
- JACKET OD (3.0MM, 2.0MM, 1.6MM)?
- CONNECTOR TYPE?

- **Singlemode patch cords are used to connect fiber optic equipment operating at 1310 and 1550 nm wavelengths**
- **Singlemode ultra polish or angle polish patch cords are required in DWDM applications**
- **Total immunity to electrical interference**
- **All singlemode assemblies can be factory installed in innerduct - Call for availability and pricing**
- **Tested for insertion and return loss**
- **Interferametric testing to comply with GR326-Core available**
- **Your choice of name brand or globally sourced components**
- **Variety of jacket colors available**

CORNING
Discovering Beyond Imagination

Variety of Jacket Colors Available!

Flat Connector

Ultra Polish Connector

Angle Polish Connector

Ultra PC
<-55 db
Back Reflection

8º PC Angled
<-65 db
Back Reflection

Check List:
- GRADE (150, 300, or 550)?
- CONNECTOR TYPE?
- JACKET (PVC or PLENUM)?
- LENGTH?
- PULLING EYE?
- CUSTOM LABELS (SHRINK or LABEL)?
- JACKET OD (3.0MM, 2.0MM, 1.6MM)?

- Laser Optimized 50/125 is designed to utilize VCSEL lasers in the 850nm window to allow transmission speeds up to 10 Gigabits per second (Gbps) over greater distance.
- Laser Optimized patch cords work with the Laser Optimized horizontal cable to achieve a 10-Gbps up to 550 meters depending on the grade of the horizontal cable.
- It is important to remember that Laser Optimized patch cords are backward compatible and can be factory installed in innerduct.
- Your choice of name brand or globally sourced components.
- 100% tested

CAH CONNECTIONS
GOLD PROGRAM

ST

MTRJ

SC

LC
Clipped

EXPRESS
.... AT THE SPEED OF LIGHT

NEW!

Major Custom Cable now offers a new line of fiber optic cables we call our Express series. This product line consists of high quality, value based jumpers in a variety of connector configurations and cable lengths. Call your MCC sales representative today to learn more.

The *Express* advantage:
- Large inventory
- Same day shipping
- Free drop shipping to your customers
- No minimum order

Your fast track to more sales.

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MODE CONDITIONING PATCH CORDS

- Adapt to Gigabit Ethernet using existing multimode cable plant
- Simply plug the singlemode connector into the Transmit side of the 1000Base-LX equipment and the multimode connector into the receive side of the equipment
- Mode conditioning patch cords provide the overfill launch condition required by multimode cable plants
- Use mode conditioning patch cords in place of standard equipment-to-patch panel for 1000 Base-LX systems where multimode horizontal cable is used
- IEEE-802.3z compliant

- SC/SC Connectors
- 62.5/125 micron
- Duplex
- PVC

Check List:
- FIBER TYPE (MULTIMODE 62.5/125 or 50/125)?
- CONNECTOR TYPE?
- CONNECTORS (COMPOSITE POLYMER or CERAMIC)?
- JACKET (PVC or PLENUM)?
- LENGTH?
- CUSTOM LABELS (SHRINK or LABEL)?
- JACKET OD (3.0MM, 2.0MM, 1.6MM)?

Our mode conditioning patch cords are designed to eliminate DMD effects which can occur when a single mode signal is launched into a multimode fiber. Mode conditioning patch cords are especially suitable for applications where new Gigabit 1000 BASE-LX routers or switches are being deployed into existing multimode plants.

OTDR LAUNCH BOXES

20.9" × 12.9" × 8.4" Inside Dimensions
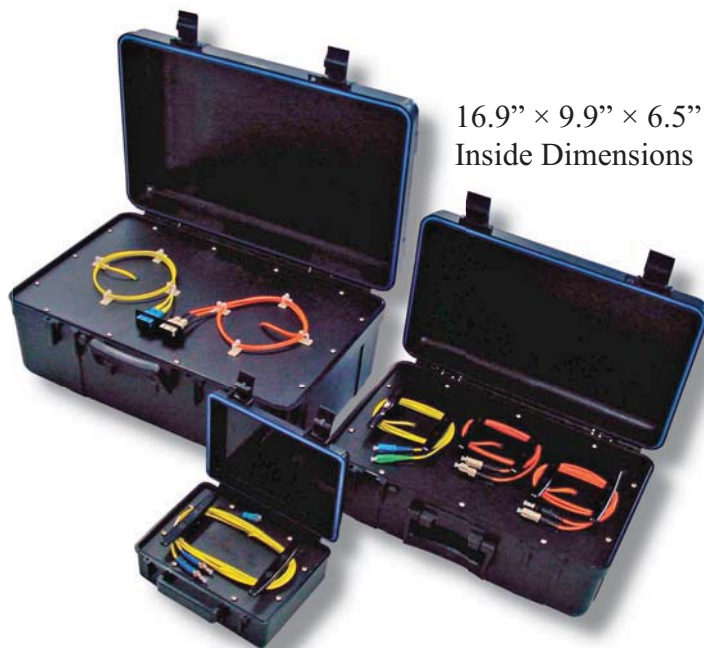
16.9" × 9.9" × 6.5" Inside Dimensions

8.5" × 6" × 3" Inside Dimensions

Check List:
- FIBER TYPE (SINGLEMODE, MULTIMODE 62.5/125, 50/125, or LASER OPTIMIZED)?
- CONNECTORS?
- BARE GLASS LENGTH?
- NUMBER OF SPOOLS?
- LASER ENGRAVED FACE PLATE?

- Design your Launch Box your way
- All fiber types and connector types are available

Uses:
Fiber network troubleshooting – Used with an OTDR, (Optical Time Domain Reflectometer) a break in a fiber run can be detected within a few feet. The launch box provides a known length of cable. The events that show on the OTDR screen will indicate every connector, every splice, and any microbend with the last event being the end of the cable.

MULTIFIBER ASSEMBLIES

MCC fiber optic cables have been designed to allow for a high degree of flexibility and customization. By providing virtually limitless options, we are able to ensure that you receive a fiber optic cable designed for your specific needs. Our development and manufacturing teams work closely together to guarantee the highest level of precision each and every time.

- Can be factory installed in innerduct
- 100% tested, results shipped with multifiber assemblies
- Your choice name brand or globally sourced components
- Available in indoor/outdoor solutions

900 micron breakout

Furcation tubing diameters   (1:1 Scale)

900 micron

3 mm

2 mm
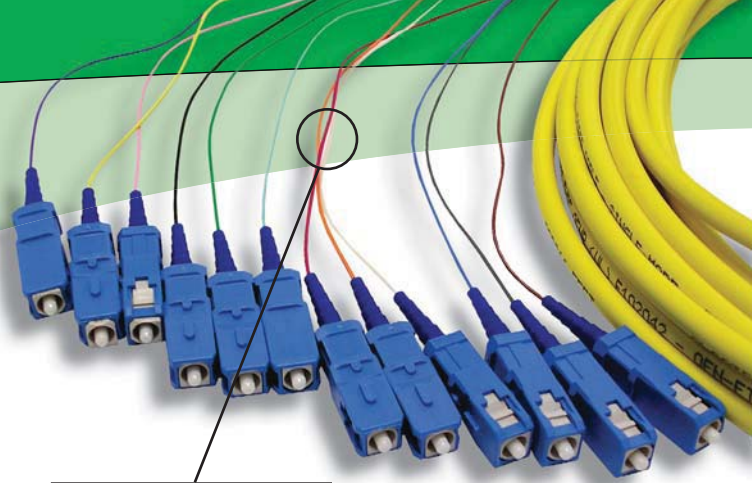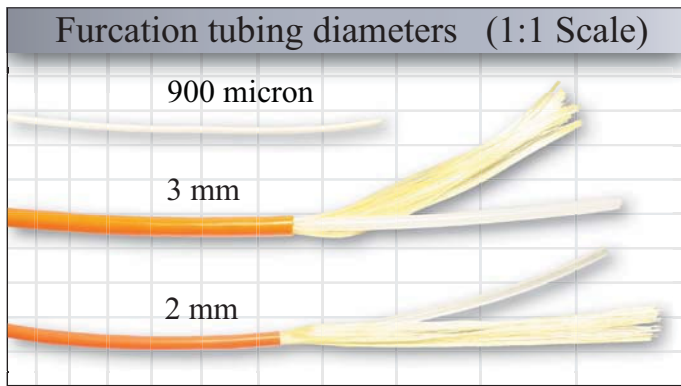
Check List:
- NUMBER OF FIBERS?
- CABLE TYPE?
-   A. DISTRIBUTION STYLE?
-   B. BREAKOUT STYLE?
-   C. INDOOR/OUTDOOR?
-   D. LOOSETUBE?
-   E. DIRECT BURIAL?
-   F.   INTERLOCKING ARMOR?
-   G. AERIAL?
- CONNECTORS?
- JACKET (PVC or PLENUM)?
- OVERALL LENGTH?
- FIBER TYPE (MM, SM, LASER OPTIMIZED)?
- FURCATION TUBING?
- PULLING EYE?
- CUSTOM LABELS (SHRINK or LABEL)?

Furcation Tubing
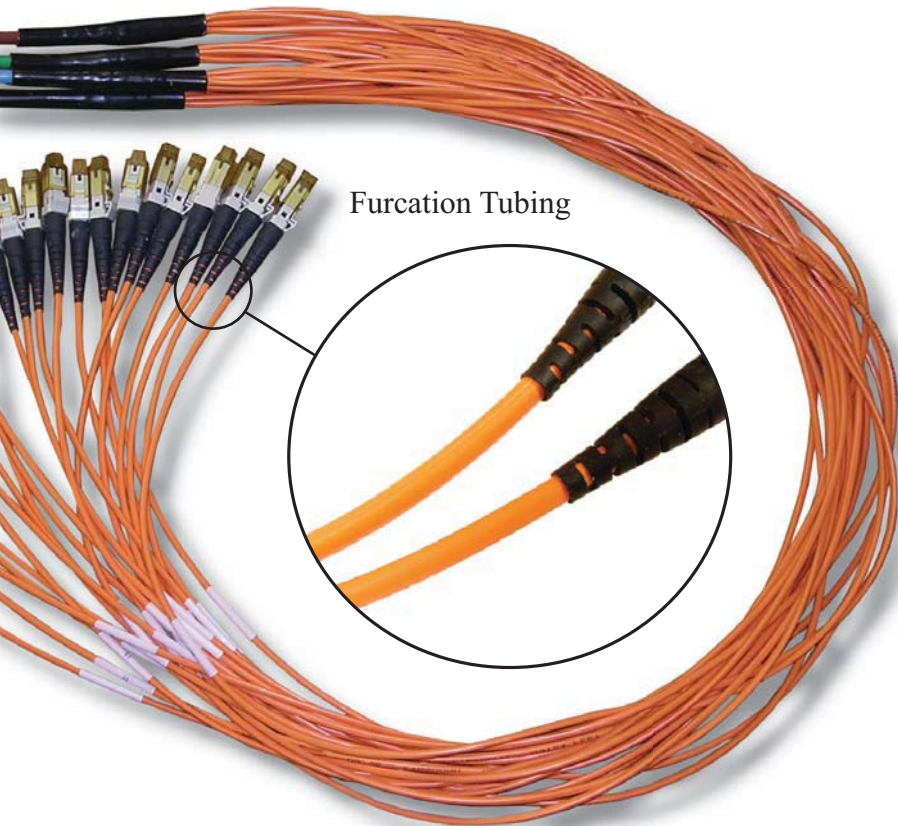
Pulling eyes for all fiber count (available in braided mesh and clear plastic)

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MTP

Multimode

Singlemode
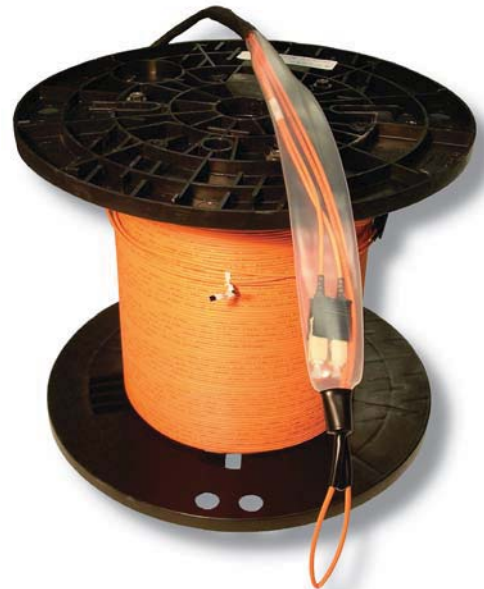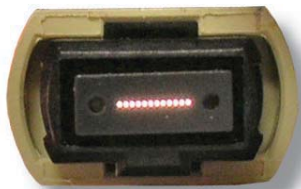
Available with the following connectors:
- LC with or without duplex clips
- SC with or without duplex clips
- ST
- FC
- MU
- D4
- ESCON
- FDDI
- MTRJ with or without alignment pins
- MTP with or without alignment pins

Available fan-out types:
- 900micron
- 2mm
- 3mm

Jacket types:
- OFNR (riser)
- OFNP (plenum)
- Interlocking armored
- Indoor/Outdoor
- Direct burial armored
- Aerial Messenger Loosetube
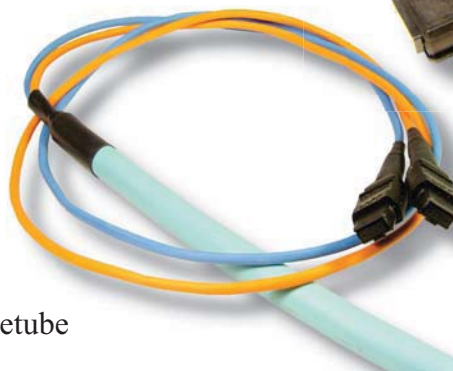
MTP for 10 GbE

900 Micron Pigtail Kit

- **Ideal for fusion splicing with an installer friendly, easy strip buffer.**
- **New packaging keeps work organized for labor savings.**
- **Packaged as either a single strand or in color coded 6 and 12 pack versions.**
- **Available with SC, ST, LC, or FC connectors. PC, UPC, and APC performance options available.**
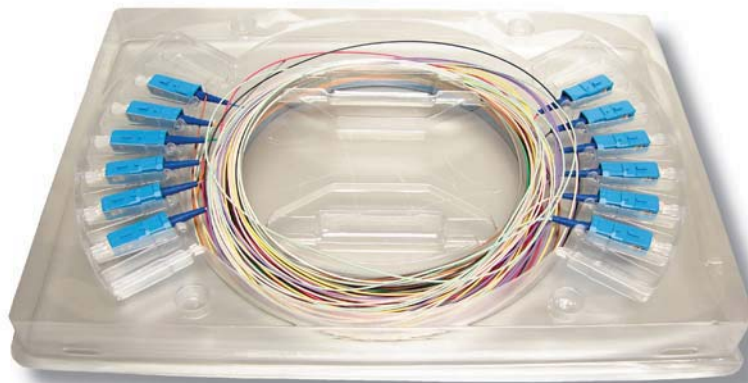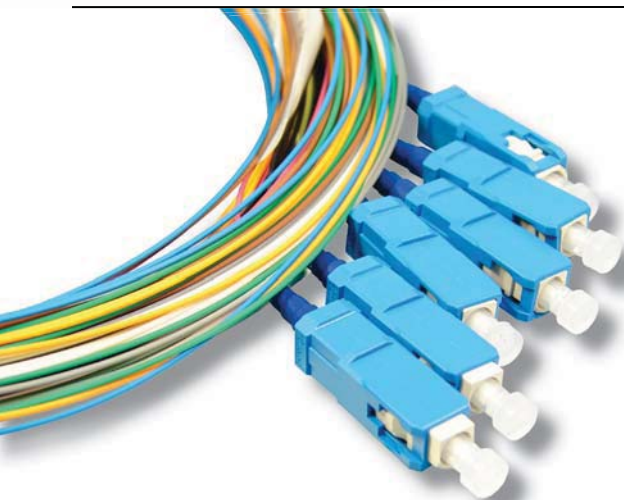
Features Corning™ Glass:

- Singlemode SMF28e™

- 50/125 Infinicor®600

- 62.5/125 Infinicor®300

- 50/125 Infinicor®SX+
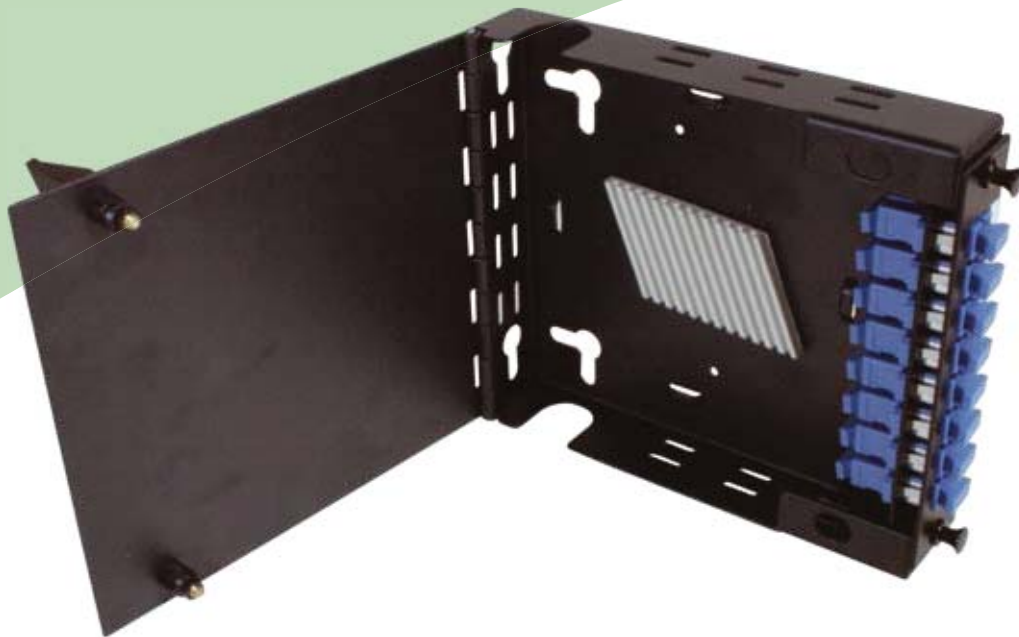
1 x LGX Slot
Various adapter plates available

Description

MCC now offers a wide range of indoor wall mounted splice enclosures. The AMW1 enclosure offers a compact solution to the end user. This enclosure has been designed to accept 1 LGX style adapter plate.

With the ability to use a full array of adapter types, this enclosure offers a flexible solution to the end user. It enables them to incorporate a multifunctional enclosure that allows easy access during installation or rework with no disturbance of the existing cable or fibers.

In addition to the array of adapters, the enclosure also offers multiple cable entry solutions. Fiber cable can be spliced or preterminated, making this enclosure one of the most flexible on the market.

Features/Benefits

▶ **Up to 1 LGX component**
▶ **Wall mountable**
▶ **Multiple adapter options available**
▶ **Splicing option available.**
▶ **Multiple fixing points**
▶ **Hinged door**
▶ **Accepts loose tube and distribution cable**
▶ **ROHS, REACH SvHC. compliant**

Applications

▶ **Data centers, premise installations, telecommunication networks**
▶ **Ethernet, Fiber Channel, ATM, LAN, MAN and WAN**
▶ **Data communication and telecommunication networks**
▶ **Indoor applications.**

Technical Specification

1 Slot Wall Box	
Height	140mm
Width	161mm
Depth	32mm
Net weight	0.6kg
Packaged weight	0.7kg
Packaged dimensions	180mm (W) x 180mm (L) x 55mm (H)
Suitable for Adaptor type	LGX / MTP Cassettes
Number of module positions	1
Material	Cold- rolled steel
Material thickness	1.2mm
Material finish	Powder coating
Color	RAL 9004
Operating temperature	-40 ℃ to +50°c
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN50173, IEC60304, IEC61754,EN297-1
Compliant to	RoHS, Reach/SVHC

Ordering Information

DESCRIPTION	PART NO.
AM Style Wall Box	**AMW1**

ISO 9001:2008
Certified

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2 x LGX Slots
Various adapter plates available

Description

MCC now offers a wide range of indoor wall mounted splice enclosures. The AMW enclosure offers a compact solution to the end user. This enclosure has been designed to accept up to 2 LGX style adapter plates.

With the ability to use a full array of adapter types, this enclosure offers a flexible solution to the end user. It enables them to incorporate a multifunctional enclosure that allows easy access during installation or rework with no disturbance of the existing cable or fibers.

In addition to the array of adapters the enclosure also offers multiple cable entry solutions. Fiber cable can be spliced or preterminated, making this enclosure one of the most flexible on the market.

Features/Benefits

► **Up to 2 LGX components**
► **Wall mountable**
► **Multiple adapter options available**
► **Splicing option available**
► **Lockable Hinged door**
► **Accepts loose tube, distribution cable**
► **ROHS, REACH SvHC. compliant**

Applications

► **Data centers, premise installations, telecommunication networks**
► **Ethernet, Fiber Channel, ATM, LAN, MAN and WAN**
► **Data communication and telecommunication networks**
► **Indoor applications**

Technical Specification

2 Slot Wall Box	
Height	164mm
Width	313mm
Depth	120mm
Net weight	3.2kg
Packaged weight	3.5kg
Packaged dimensions	230mm (W) x 350mm (L) x 160mm (H)
Suitable for Adaptor type	LGX / MTP Cassettes
Number of module positions	2
Material	Cold- rolled steel
Material thickness	2.5mm
Material finish	Powder coating
Color	RAL 9004
Operating temperature	-40°c to +50°c
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN50173, IEC60304, IEC61754,EN297-1
Compliant to	RoHS, Reach/SVHC

Ordering Information

DESCRIPTION	PART NO.
AM Style Lockable Wall Box	AMW2

4 x LGX Slots
Various adapter plates available

Description

MCC now offers a wide range of indoor wall mounted splice enclosures. The AMW enclosure offers a compact solution to the end user. This enclosure has been designed to accept up to 4 LGX style adapter plates.

With the ability to use a full array of adapter types, this enclosure offers a flexible solution to the end user. It enables them to incorporate a multifunctional enclosure that allows easy access during installation or rework with no disturbance of the existing cable or fibers.

In addition to the array of adapters, the enclosure also offers multiple cable entry solutions. Fiber cable can be spliced or preterminated, making this enclosure one of the most flexible on the market.

Features/Benefits

► **Up to 4 LGX components**
► **Wall mountable**
► **Multiple adapter options available**
► **Splicing option available.**
► **Lockable Hinged door.**
► **Accepts loose tube, distribution cable**
► **ROHS, REACH SvHC. compliant**

Applications

► **Data centers, premise installations, telecommunication networks**
► **Ethernet, Fiber Channel, ATM, LAN, MAN and WAN**
► **Data communication and telecommunication networks**
► **Indoor applications**

Technical Specification

4 Slot Wall Box	
Height	290mm
Width	362mm
Depth	107mm
Net weight	4.6kg
Packaged weight	5.2kg
Packaged dimensions	360mm (W) x 410mm (L) x 160mm (H)
Suitable for Adaptor type	LGX / MTP Cassettes
Number of module positions	4
Material	Cold- rolled steel
Material thickness	2.5mm
Material finish	Powder coating
Color	RAL 9004
Operating temperature	-40°c to +50°c
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN50173, IEC60304, IEC61754,EN297-1
Compliant to	RoHS, Reach/SVHC

Ordering Information

DESCRIPTION	PART NO.
AM Style Lockable Wall Box	AMW3

ISO 9001:2008
Certified

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LGX Style Adapter Plates

SC Multimode SIMPLEX
L01 (8 ports/Adapters)
L01SCM08
Adaptor only Part NO.SCUSPHBRBEIGE

LC Multimode SIMPLEX
L01 (8 ports/Adapters)
L01LCM08
Adaptor only Part NO. LCDPXBEIGE

SC Singlemode SIMPLEX
L01 (8 ports/Adapters)
L01SCS08
Adaptor only Part NO. SCUSZR02

LC Singlemode Duplex
L01 (8 ports/Adapters)
L01LCS08
Adaptor only Part NO. LCDPXBLUE

SC-APC Singlemode SIMPLEX
L01 (8 ports/Adapters)
L01SCA08
Adaptor only Part NO. SCAPCUSGREEN

LC-APC Duplex
L01 (8 ports/Adapters)
L01LCA08
Adaptor only Part NO.LCAPCUDGREEN

SC Multimode Duplex
L03 (6 ports/Adapters)
L03SCM06
Adaptor only Part NO.SCUDPHBRBEIGE

LC QUAD Multimode
L03 (6 ports/Adapters)
L03LQM06
Adaptor only Part NO. LCQUADBEIGE

SC Singlemode Duplex
L03 (6 ports/Adapters)
L03SCS06
Adaptor only Part NO. SCUDZR02BLUE

LC QUAD Singlemode
L03 (6 ports/Adapters)
L03LQS06
Adaptor only Part NO. LCQUADBLUE

SC-APC Singlemode Duplex
L03 (6 port/Adapters)
L03SCA06
Adaptor only Part NO. SCAPCUDGREEN

MTRJ
L01 (8 port/Adapters)
L01MTM08
Adaptor only Part NO. MTRJUNITER

ST Multimode
L02 (8 port/Adapters)
L02STM08
Adaptor only Part NO. STUPHBR

E2000 Multimode
L01 (8 port/Adapters)
L01E2M08
Adaptor only Part NO. E2UBEIGE

ST Singlemode
L02 (8 port/Adapters)
L02STS08
Adaptor only Part NO. STUZR02

E2000 Singlemode
L01 (8 port/Adapters)
L01E2S08
Adaptor only Part NO. E2UBLUE

FC Singlemode
L02 (8 port/Adapters)
L02FCS08
Adaptor only Part NO. FCUPHBR-D

E2000-APC Singlemode
L01 (8 port/Adapters)
L01E2A08
Adaptor only Part NO. E2APCUGREEN

FC Multimode
L02 (8 port/Adapters)
L02FCM08
Adaptor only Part NO. FCUZR02-D

BLANK PLATE
L04

FC-APC Singlemode
L02 (8 port/Adapters)
L02FCA08
Adaptor only Part NO. FCAPCUZR02-D

W24 6 Position up to 12 fibers

This lockable IP65 distribution box offers the ability to terminate 12 fibers housed in a strong robust ABS enclosure for indoor and outdoor applications.

With the ability to use a full array of adapter types this enclosure offers a flexible solution to the end user. It enables them to incorporate a multifunctional enclosure which allows easy access during installation or re-work with no disturbance of the existing cable or fibers.

In addition to the array of adapters then enclosure also offers up to 12 exit points for patching cables and 1 standard cable entry point for loosetube, tight buffer, pre-terminated and steel tape armored cable.

Each enclosure has integrated strength member tie positions and bend radius protection with the addition of a removeable front door allowing for quick and easy installation.

- ▶ Up to 12 fibers
- ▶ Multiple adapter options available
- ▶ 6 adapter positions
- ▶ IP65
- ▶ Accepts loose tube, distribution and pre-terminated cables
- ▶ Integrated bend radius protection
- ▶ Sealing glands for up to 12 cables
- ▶ Lockable door
- ▶ Removable door for ease of installation
- ▶ ROHS, REACH SvHC compliant
- ▶ Supplied with 12 heatshrink splice protectors
- ▶ Supplied with transit tubing
- ▶ Supplied with wall fixings and tie wraps

Technical Specification

IP Rated Distribution Box for Internal/External Use	
Height	258mm
Width	186mm
Depth	61mm
Net weight	0.55kg
Packed weight	0.96kg
Packaged dimensions	275mm x 197mm x 65mm
IP rating	IP65
Suitable for adaptor type	SC Duplex LC Quad
Number of fibers	12
Number of ports	6
Cable entry 20mm	1
Cable exit 20mm	2
Material	ABS
Color	White
Operating temperature	-40ºC to +50ºC
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN50173, IEC60304, IEC61754, EN297-1
Compliant to	RoHS, Reach/SVHC

Applications

- ▶ Data centers, premise installations, telecommunication networks
- ▶ Ethernet, Fiber Channel, ATM, LAN, MAN and WAN
- ▶ Data communication and telecommunication networks
- ▶ Indoor / outdoor applications

Ordering Information

Description	Part Number
6 Position IP65 Indoor/Outdoor Distribution Box	W24XXX00

Speedway
6 Segment Fiber Management Spool

Introducing the revolutionary Speedway bend radius spool with its unrivalled ease of use and flexibility. Designed to accommodate a number of cable diameters up to 3mm. This incredibly versatile accessory allows the installer to use the complete unit for fiber storage of break it down in to 6 individual components suitable for fiber management/routing. These can then be mounted via adhesive foam pads or via screws. The individual spools are designed to stack up into as many units as you may require through a simple snap fit system.

Features

► Fiber pathway allows easy storage of excess fiber and multi-directional routing of entry and exit fibers

► Allows storage of 250um, 900um, up to 3mm fiber cabling

► Minimum 30mm bend radius

► Can be split in to six seperate sections

► Clips together allowing multiple stacks to be formed

► Mountable via central hole be screw, or double sided foam adhesive pad

Applications

► Fiber management
► Internal and external
► Wall Boxes
► Patch Panels

One segment

Two segment

Three segment

Side view - Two stacked

Technical Specification

Fibre Management Spool	
Diameter	Max 96mm
Height - Individual	22mm with Adhesive pad, 21mm without
Height – 2 Stacked	37mm with Adhesive pad, 36mm without
Net weight	27g
Packaged weight	27g
Material	ABS
Color	Blue
Operating temperature	-40°C to +50 °C
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN50173
Compliant to	IEC60304, IEC61754,EN297-1 RoHS, Reach/SVHC

Ordering Information

Splice Tray with Clear Lid	Part No.
Speedway Bend Radius Spool	SPOOL6/PAD

Design Registration Number 001274211

Six segment
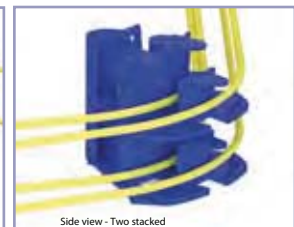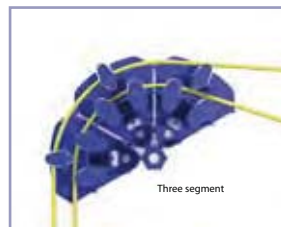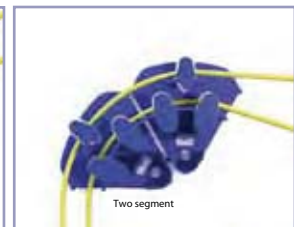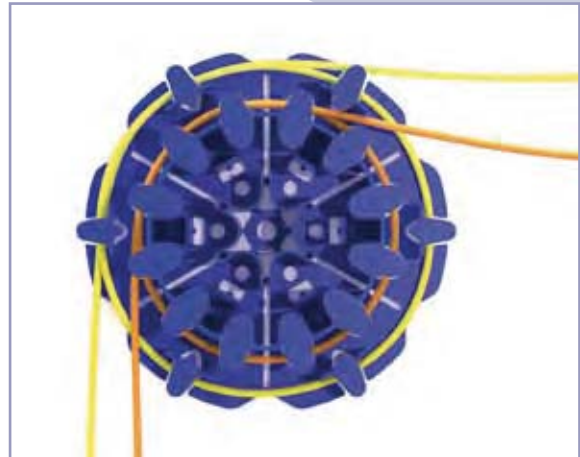
Speedway Fiber Splice Tray For Up To 24 Fibers

Introducing the revolutionary new Speedway splice tray with unrivalled ease of use and flexibility. Featuring a unique external fiber pathway and pivoting splice holder arrangement, this tray redifines the concept of splice management, combining fiber management and splicing control in one product. Due to its accommodating internal dimensions the Speedway splice tray is able to comfortably hold 24 splices with either heatshrink or crimp style splice protectors with up to 900um fibers.

Stackable

Supplied with cassette lid

Features

▶ Unique external fiber pathway allows easy storage of excess fiber and multi-directional routing of entry and exit fibers

▶ Spacious interior maintains 30mm fiber bend radius and allows storage of either 250um or 900um buffered fiber

▶ Internal management allows multiple fiber routing options including crossover

▶ Pivoting splice holders allow uninterrupted control of fiber prior to splicing and during rework

▶ Built in fiber pick can be used to withdraw individual fiber and can be stored in the try after use

▶ Will hold up to 24 splices with either heatshrink of crimp style splice protectors

▶ Supplied with tray hinge to maintain access to splices with stacked trays

▶ Transparent clip in lid supplied with every tray

▶ Cable tie points to secure fiber on entry and exit

▶ Mountable via central hole, DIN style holes or double sided foam adhesive pad

Applications

▶ Fiber management
▶ Internal and external
▶ Wall boxes
▶ Patch panels

## Technical Specification

Splice Tray	
Width	168mm
Depth	124mm
Height	13mm
Net weight	81g
Material	ABS
Color	Blue
Operating temperature	-40°C to +60°C
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN50173, IEC60304, IEC61754,EN297-1
Compliant to	RoHS, Reach/SVHC

Ordering Information

Splice Tray with Clear Lid	Part No.
Speedway Fiber Splice Tray Heat Shrink	SPT01
Speedway Fiber Splice Tray Crimp Style	SPT02

Design Registration Number 001274211

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Tray hinge -
For additional splice trays to be mounted

Hinged style holder for
heat shrink splice holder

Storage for fiber pick

Removable Fiber Pick -
Used to withdraw
individual fibers

Hinged holder for
crimp style splice

External Fiber Management
Channels

Mounting holes for panel

Internal Fiber Management
Channels and cross over
radius protection

Technical Drawing

168

42

124

13

Ø5

Ø4
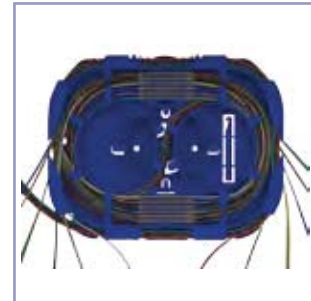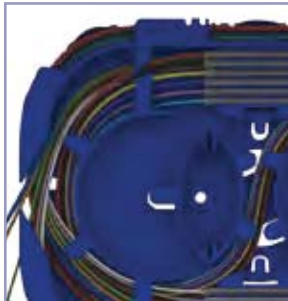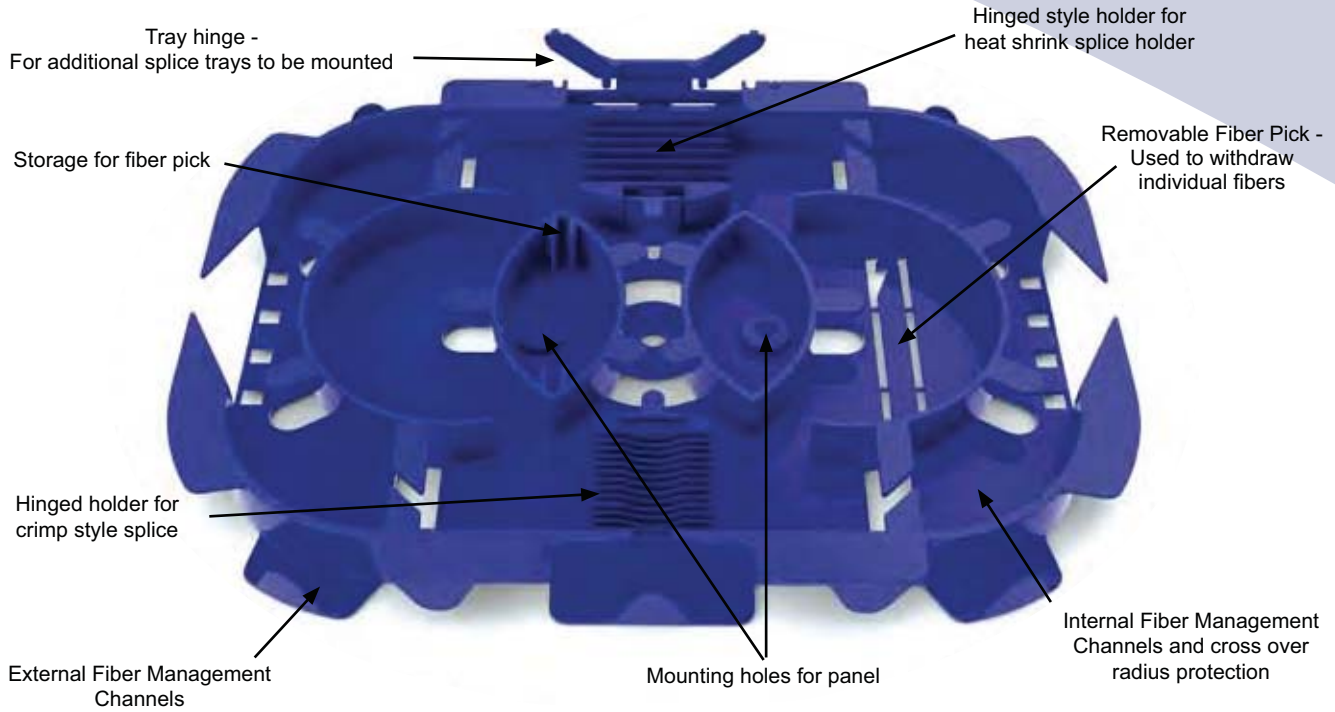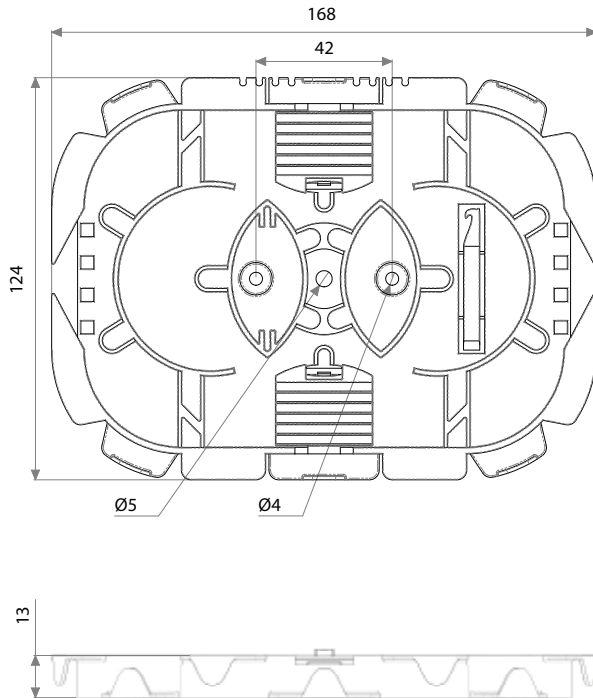
All dimensions in mm
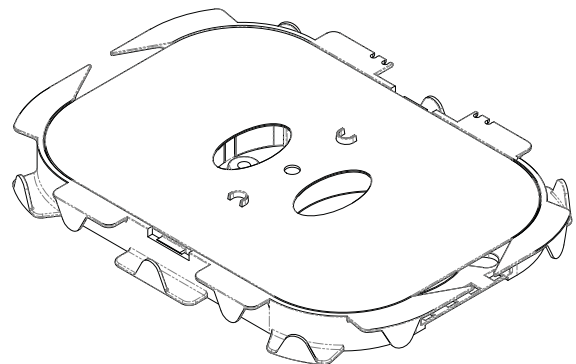
MTP CASSETTE MODULES

Description

MCC MTP Cassette Modules provide a secure transition between MTP and LC or SC discreet connectors. They are used to interconnect MTP backbones with LC or SC patching.

Modular system allowing for rapid deployment of high density data center infrastructure as well as improved troubleshooting and reconfiguration during moves, adds, and changes. Cassettes can be mounted in 1U or 3U 19" multi-slot chassis.

MTP Cassettes contain factory controlled and tested MTP -LC or SC fanouts to deliver optical performance and reliability. Low Loss MTP Elite and LC or SC Premium versions are offered featuring low insertion loss for demanding power budget high speed networks.

Features

► **MTP® (US Conec) brand MPO standard compliant multifiber connector**
► **LC (SFF Data Centre standard), SC discreet interface**
► **OS1/2, OM3, OM4 fiber grades (OM1 and OM2 available)**
► **12 and 24 fiber versions - 12 LC (Duplex) / SC (Simplex) optical parts**
► **Polarity A (standard), B or C**
► **Factory Terminated and Tested**
► **High performance zirconia sleeve adaptors**

Compatibility:

**1U Chassis
Scaling up to 72 Fibers
Part Number: S13XXX00**

Benefits

► **Rapid Deployment**- factory terminated modular system saves installation and reconfiguration time during moves, ads and changes.
► **MTP® Interface**- MTP® US Conec brand components feature superior optical and mechanical properties.
► **Optimized Performance**- low loss MTP® Elite, discreet Premium connectors and OM4 fiber assures low insertion losses and power penalties in tight power budget, high speed network environments.
► **High Density**- 12 or 24 fiber cassettes can be mounted in 1U scaling up to 72 or in 3U scaling up to 336 discreet connectors.
► **Reliability**- 100% Tested- combination of high quality components and MCC manufacturing quality control guarantees product to the highest standards.

Application

► **Data Center Infrastructure**
► **Storage Area Network- Fiber Channel**
► **Parallel Optics**

Standards Compliance

► **TIA/EIA-568-C.3 and ISO/IEC 11801 - cable**
► **IEC-61754-7 & EIA/TIA-604-5 - MTP®**
► **Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC**
► **IEC-61754-20 (LC) & IEC-61754-14 (SC)**
► **IEC-60793**

**3U Chassis
Scaling up to 336 Fibers
Part Number: LGXCHASSIS**

Connector Performance

CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS	CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS
MTP Elite (MM)	0.10 dB	0.35 dB	NA	MTP Elite (SM)	0.10 dB	0.35 dB	>60dB
MTP (MM)	0.20 dB	0.60 dB	NA	MTP (SM)	0.25 dB	0.75 dB	>60dB
LC, SC Premium (MM)	0.08dB	0.15dB	NA	LC, SC Premium (MM)	0.12dB	0.15dB	>55/65dB*
LC, SC (MM)	0.15dB	0.30dB	NA	LC, SC (SM)	0.18dB	0.30dB	>55/65dB*

* UPC/APC

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Technical Specification

Element	Characteristic
Fiber	OS1/OS2, OM1, OM2, OM3, OM4 (ISO/IEC 60793)

Adaptors	MTP® US Conec (IEC-61754 &EIA/TIA-604-5)
	  Body Color: Black Polarity: Keyway up- Keyway down, Keyway up- Keyway up
	LC Duplex (IEC 61754-20)
	  Body Color: Beige (MM), Aqua (MM), Blue (SM/UPC), Green (SM/APC) (Sleeve Material: Zirconia)

Connectors	MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5)
	  Boot Color: Black Body Sleeve Color: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow)
	LC (IEC 61754-20)
	  Boot Color: White (MM and SM/UPC), Green (SM/APC) Body Color: Beige (MM), Blue (SM), Green (SM/APC)

Cassette Material	16 Gauge Aluminium (15mm Thickness) with a black powder coat finish (Colour: RAL9004)
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C
Packaging Dimensions	150mm x 50mm x 215mm
Weight	0.55kg

MTP ® LC Cassette

103.5

132.5

Front

129

117

Adapters 1-6 Keyway Up

30

1   6
7   12

Adapters 7-12 Keyway Down
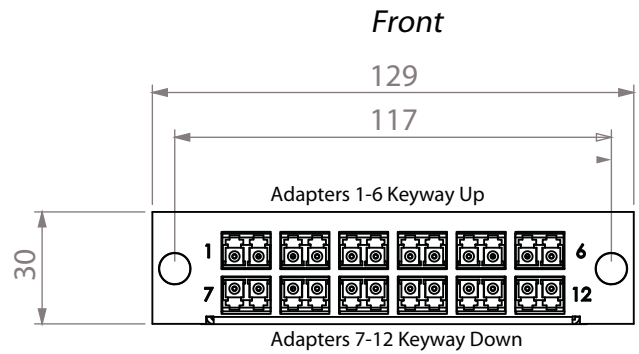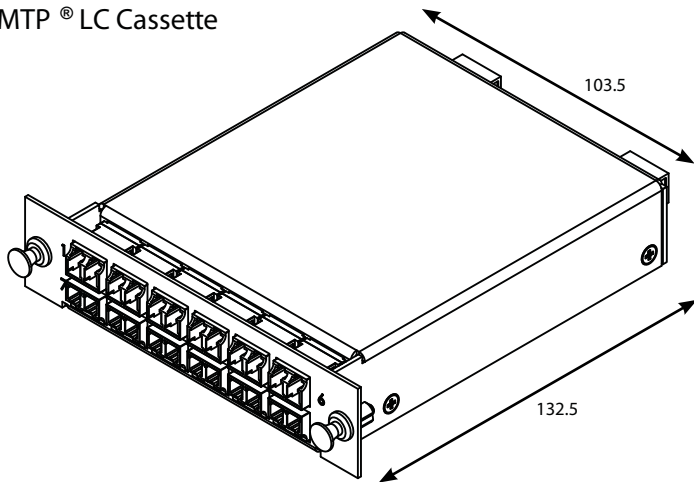
All dimensions in mm

Part Number Generator

MTP Connector		Fiber Count	Discreet Connector	Fiber type		Polarity	
MTP Male (standard)	MTPM	12	LC (LC)	OS1/OS2	09	A	N/A
MTP Male Elite®	MTPEM	24	SC (SC)	OM1	62	B1	B1
Female available on request				OM2	50	B2	B2
				OM3	OM3	C	N/A
				OM4	OM4		

CASS

Example Part Number

MTPM24LCOM3CASS

This part number refers to 24 fibers OM3 casssette with MTP male rear and LC front interface, polarity method A or C.

1U AM Style Modular Patch Panel

MCC offers a complete range of innovative, robust optical panels, designed in high-grade steel and aluminum with a hinged, smoked Plexiglass front safety door. The Panels have been designed to accept MTP Cassettes or LGX-style adaptor plates in a wide variety of configurations.

This line of panels offers a highly flexible solution, enabling the installer to incorporate a multi-functional chassis which allows easy access during installation or re-working with no disturbance to the existing cable or fibers.

This family of panels also offers multiple cable entry solutions allowing MTP trunks, pre-terminated cables or LT/TB/breakout cables to be easily connected internally via the highly flexible internal management spools or splice cassettes, making this panel one of the most flexible on the market.

Features

▶ **High grade steel and aluminium construction**
▶ **Hinged front plexiglass door**
▶ **Aluminium slide rails**
▶ **Powder coat finish in standard black**
▶ **Flexible internal cable management**
▶ **Fully flexible for 19" and 23" applications**
▶ **Sliding tray for ease of installation**
▶ **Integrated spring loaded tray retainer**
▶ **Holds up to 3 cassettes or LGX style adaptor plates**
▶ **Multiple adaptor options available, loaded or unloaded**
▶ **Splicing option available**
▶ **Side patch cord exit points**
▶ **Removable quick access top covers**
▶ **Removable front**
▶ **Accepts loose tube, distribution cable and MTP trunk cable**
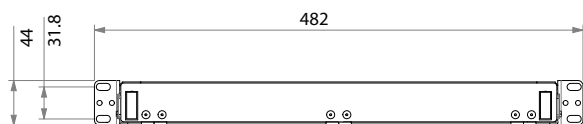
Technical Specification

1U Modular Patch Panel Chassis	
Height	1U (44.4mm)
Width	432mm
Depth	356mm
Net weight	5.9kg
Packaged weight	6.3kg
Packaged dimensions	444mm (W) x 508mm (L) X 102mm (H)
IP rating	Not Applicable
Suitable for Adaptor type	LGX / MTP Cassettes
Number of ports	3
Material	Cold-rolled steel
Material coating	Powder coating
Material thickness	1.2mm
Colour	RAL 9004
Operating temperature	-40°C to +60°C
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN50173, IEC60304, IEC61754,EN297-1
Compliant to	RoHS, Reach/SVHC

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MCC
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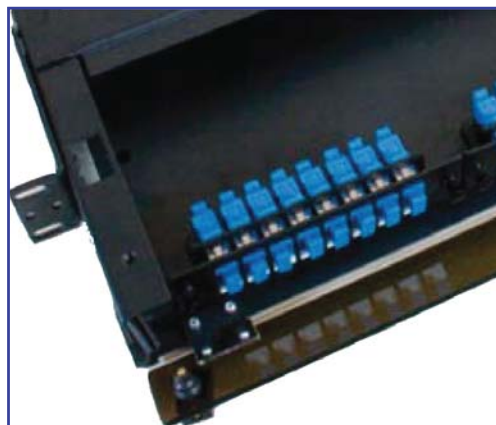
Technical Drawings

Front View

482

44

31.8

Top View

439

354
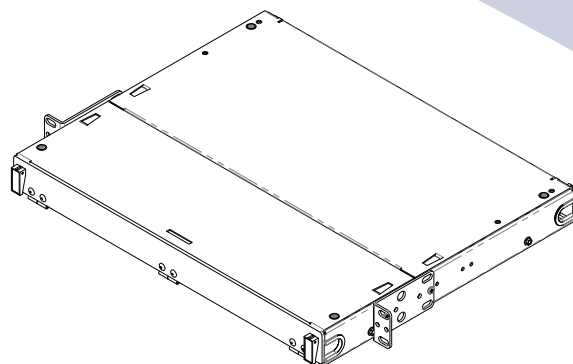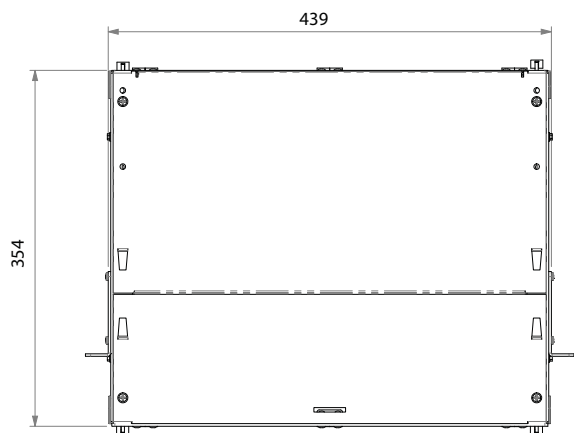
Side View

All dimensions in mm

Ordering Information

Description	Part Number
1U AM Style Modular Patch Panel	AM1U

The "SEBR"
Standby Emergency Backup Reel

Check List:

- DUPLEX or MULTIFIBER?
- FIBER STRAND COUNT (2 to 36)?
- FIBER TYPE (SINGLEMODE, MULTIMODE 62.5/125 or 50/125 or LASER OPTIMIZED)?
- CONNECTOR TYPE (FC, LC, MTRJ, SC, ST)?
- CONNECTORS (COMPOSITE POLYMER or CERAMIC)?
- SINGLEMODE ULTRA or ANGLE POLISH CONNECTORS?
- LENGTH?

Reel Specifications

- **Flange Diameter: 18-3/4" Drum Diameter: 11-1/4" Traverse length: 12-3/4"**
- **Weight: 62 lbs. in the box**
- **Frame Dimensions: 25"H X 16-1/4"W X 25-1/2" Bottom Length X 20-1/2" Top Length**
- **300 foot Capacity with 5/8" tubing**
- **Reel plate will accommodate 1 to 18 duplex or 1 to 36 simplex couplers, as specified by the customer**
- **4 locking casters**
- **Rugged frame that is easily transported**

Tubing Specifications

- **18 to 36 inch breakout available**
- **Clear PVC tube with braided reinforcement**
- **ROHS compliant FDA formula**
- **Temperature Range: -10 to +130F**
- **Weight: 10.3 lbs/100ft.**
- **Lengths available from 100 to 300 ft.**
- **Crush proof up to 3000 lbs.**
- **A copper version of the "SEBR" can be designed - Call for details**

Interface panel will accommodate up to 36 couplers. All common coupler types are available.

Quick retrieval handle
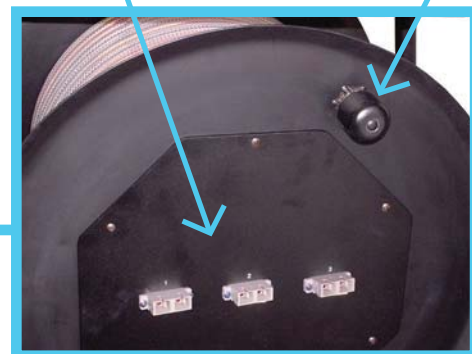
- For temporary use
- Not for permanent installations

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HDMI Extender Reel

- For portable HI definition needs
- What's on the reel
    1. Plate with 4 LCD and 1 Cat 5E RJ45 Jack
    2. 4 Strand LCD/LCD Multimode Cable up to 100 meters
    3. 1 Cat 5E Solid 24 Gauge 4 pair Terminated Jack to Plug
    4. 1 Transmit unit HDMI to Fiber converter

Ruggedized LC

- Up to 1000 feet
- Multiple 2 Strand Tactical Grade Fiber Cables Under TechFlex
- LC Duplex Ruggedized Connectors Options
    1. Tyco Electonics ODVA
    2. Neutrik OpticalCon
- LC Duplex Ruggedized Coupler Options
    1. Tyco Electronics ODVA
    2. Neutrik OpticalCon

Custom Configurations Available!
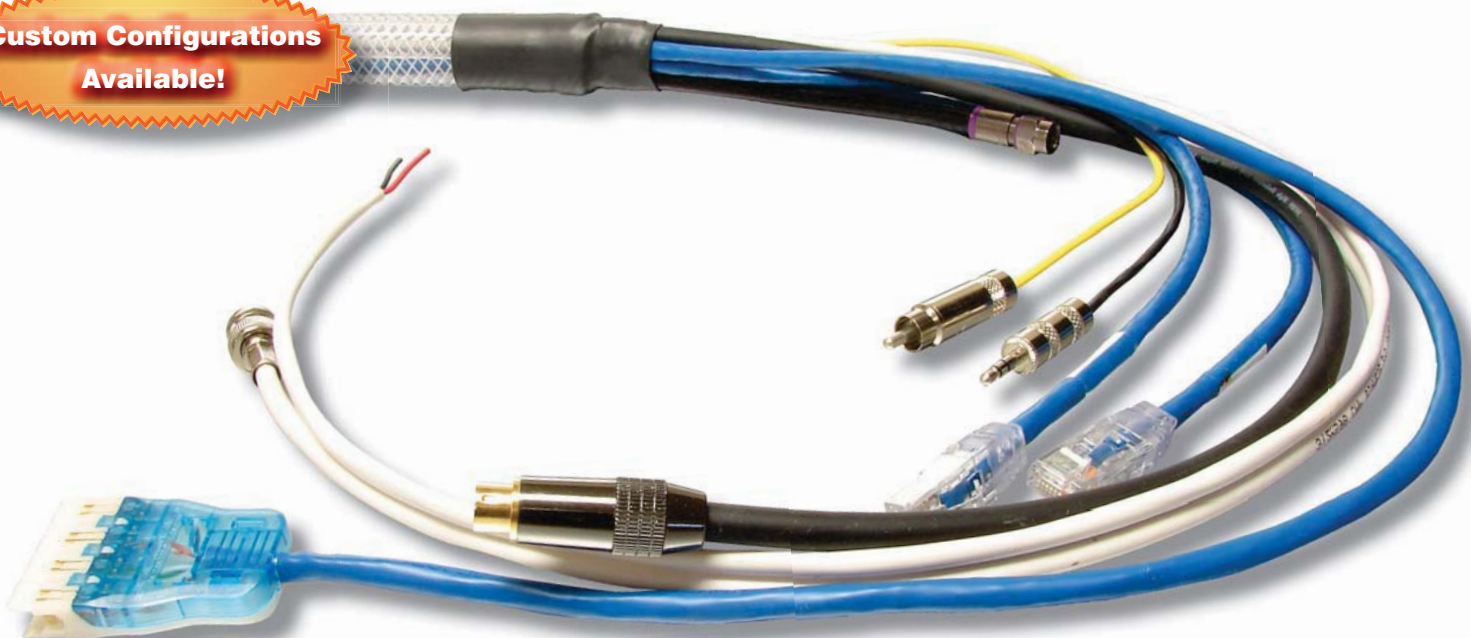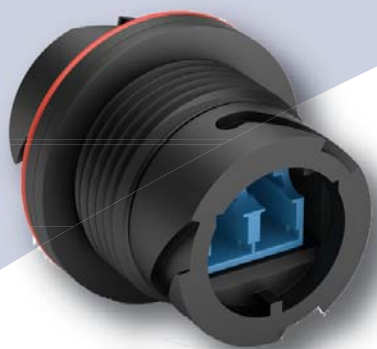
INLINE ADAPTER

IP-SCA

BULKHEAD ADAPTER

IP-MPO

IP-LC

IP67 RATED BREAKOUT KIT

IP67 Water immersion and Dust protection for harsh environment

Wide range of operational temperature for outside plant -40

Wide range of cables to be used, 5-8mm OD cable with two 2.0mm to 3.0mm jacketed subunits
Chemical Resistance
Intermatable to other Industrial LC adaptor per IEC 60603-7
Durable mechanical mating, minimum of 500 matings

ISO 9001:2008
Certified

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CERTIFIED opticalCON ASSEMBLER

opticalCON DUO ®

protection boot
ruggedized metal housing
sealing shutter
colored Sealing Gasket
heavy duty cable retention
4 copper contacts
2 fibers
sealing shutter
spring loaded push pull locking mechanism
Standard LC connector compatibility
big solder cups (AWG 18)

opticalCON QUAD ®

protection boot
ruggedized metal housing
sealing shutter
colored sealing gasket
heavy duty cable retention
4 fibers
sealing shutter
spring loaded push pull locking mechanism
Standard LC connector compatibility

opticalCON MTP ®

spring loaded push pull locking mechanism
ruggedized metal housing
protection boot
sealing shutter
12 fibers
heavy duty cable retention
sealing shutter
colored sealing gasket
Standard MTP* connector compatibility

Accessories

SMPTE 304M Connectors by Kings

Winchester's KINGS® brand Fiber Optic Tri-Loc® Camera Connectors set a new standard in SMPTE 304 connectors. Extremely rugged, reliable, and intermateable with all connectors in the field.

Benefits/Features
- Quick Disconnect Push/Pull self-latching system
- ARIB (BTA S-1005B), ANSI/SMPTE (304-2009 & 311-2009), and EBU (R100-1999) compatible
- Heaviest gage stainless steel shell on the market
- Fiber optic endface geometry per Telcordia® GR-326 core.
- Custom reels options available (see page 30)
- Customers can choose from Belden, Furukawa, or Major Custom Cable brand wire

The only 100% MADE IN THE USA camera cable on the market

The HMA connector series is a small hybrid connector suited for a vast array of applications, including broadcast, military communications, industrial and petrochemical. The innovative designs ensure its ability for deployment in the toughest environments where high performance and total reliability are critical.

Benefiting from Stratos expanded beam technology, with a long and proven industry track record, the precision optical alignment system creates immunity from water, mud, dust, oil, and other contaminants.

The HMA Hermaphroditic coupling eliminates the need for adaptors or male and female mating halves. Hermaphroditic housings allow for rapid deployment, creating Singlemode, Multimode, and Hybrid daisy chained links in a variety of plan forms ranging from simplex fiber to a copper Hybrid. The HMA is ideally suited for environmental extremes where low maintenance and quick repair times are necessary.

Key Features & Benefits

- Advanced expanded beam technology
- Hermaphroditic interconnection
- 1 to 4 Fiber channels Single mode or Multimode
- Hybrid electrical & fiber channel options Available
- Rugged field repairable connector design boot for 'Blind Mating'
- Best optical performance available
- No adaptors necessary
- Inexpensive, low downtime field repair
- Easy clean, no special tools
- Designed to meet requirements of MIL83526/MIL20/MIL21

About Pierside

The Pierside fiber optic connector is for harsh environment, broadcast, and pierside applications. This connector is available in either singlemode or multimode and uses field-proven MIL-PRF-29504 termini.

The 6 & 12-channel Pierside connector designs provide flexibility for current and future Navy communication requirements both afloat and ashore. This connector is also ideal for high fiber-count tactical broadcast networks.

Removable termini, qualified to MIL-PRF-29504 specifications, enables quick connector reconfiguration and field maintainability.

Applications

- Umbilical cables used to interface between shore and ship networks
- Broadcast
- U.S. Army, Navy, Air Force and Marine Corp tactical and strategic deployments
- Oil, gas and geoscience industries
- Industrial

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TFOCA II Connectors
Second generation TFOCA connectors feature a PC (physical contact) style ceramic–zirconia termini and may include 4, 6, or 12 fibers. These newer designs support 50/125, 62.5/125, singlemode fibers (9/125) or hybrid combinations.

The hermaphroditic TFOCA-II connector series was designed specifically for use in harsh environments. In fact, the U.S. Army has standardized on the 4-channel TFOCA-II connector as the next generation fiber optic connector for military tactical deployable network applications.

Applications:
- Broadcast Industry
- Satellite Ground Station
- Industrial Harsh Environment
- Emergency Fiber Restoration Service
- Tactical Harsh Environment
- Mobile Communications
- Oil/Gas /Geological Industries
- Mining

Schill utilizes state of the art manufacturing and quality control process (DIN EN ISO 9001:2008) at their plant in Laichingen/Baden-Wuerttemberg, Germany. The design team is constantly striving to improve every aspect of the product, often relying on direct customer input to deliver the highest quality. The central item is customization, and that's why they are Major Custom Cable's partner of choice.

We normally stock open reels and then accessorize the unit based on the customer's needs. We always keep the most popular reels in stock in our Midwest warehouse, servicing all of the USA and Canada. If a particular reel is not in stock, we can have it shipped from the plant in Germany in as little as 5 working days.

GT 235

GT Professional Series
Unbreakable synthetic rubber and heavy-duty steel construction, high-quality fittings, spool brake, completely customizable.

HT Classic Line
Heavy-duty steel constructions, interchangeable disks, high-quality fittings, spool brake, folding crank, completely customizable.

GT 380

SL 500

SL Series Stage Line
Industrial-duty powder coated steel and polycarbonate construction, stackable, high-quality fittings, folding carry handles, spool brake, folding cranks, hinged hub access hatch.

SK Series Stage Line
Industrial-duty steel frame and spool, stackable, high-quality fitting, tri-flange 3rd disk, spool brake, heavy-duty folding crank.

GT 450

GT 310

SK 4730

ISO 9001:2008
Certified

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Check List:

- SIZE? SINGLE, DUAL, OR CUSTOM?
- PLASTIC DECORA OR STAINLESS?
- CLEAR ANODIZED OR POWDER COATED?
- ENGRAVING OR SCREEN PRINTING?
- NUMBER AND TYPE OF PORTS?

FROM THE

MCC METAL SHOP

Copper feed thru's include:
- 3.5mm mini TRS
- BNC
- RCA
- VGA
- RJ45
- F (CATV)
- S VIDEO
- HDMI (HDCP compliant)
- USB
- Firewire
- D-Subs

Fiber Optic Connectors:
- ST
- SC
- LC
- TOSLINK

You design it, we build it!

OpticalCon   LC   RJ45   2 EZ (5P XLR)

CAT 6 EtherCon
* CAT6 compliant - data rate up to 10 GBit/s
* IP65 Dust and water resistant in mated condition
* Push Pull mating design provides secure locking system
* Shielded system - high noise immunity and EMI protection
* IDC contacts offer gas-tight termination
* Ready made patch cables with rugged diecast
  cable carrier and unique chuck-type strain relief

Canare RJC5ES-4P-4C
S/UTP
Heavy, rugged jacket (XLPE), Super flexible
Ethernet tested to 50 meters
Ethersound to 75 meters

Rapco Horizon DURACAT
UTP
Heavy duty, dual jacketed
Stranded core Ethernet 20 meters/Ethersound 75 meters
Solid core Ethernet 100 meters/Ethersound 109 meters

CAT 5E EtherCon
* The RJ45 system for harsh and demanding environments
* Cable carrier has rugged diecast shell and unique chuck
  type strain relief
* Protects Ethernet connections in a variety of commercial
  type applications and is designed to prevent breakage of the
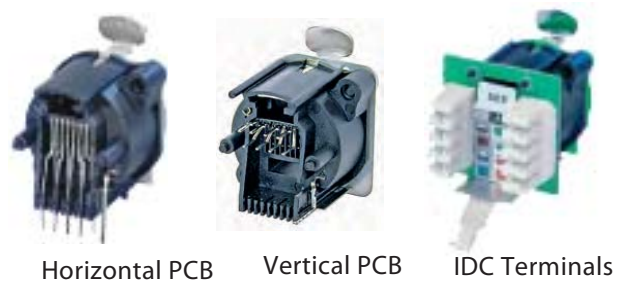 fragile components of standard RJ45 connectors

Shielded & Lighted	Feedthrough	Termination Styles

Horizontal PCB   Vertical PCB   IDC Terminals

Receptacles

ISO 9001:2008
Certified

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MCC Major Custom Cable

Tyco Ruggedized

Ruggedized LC

Ruggedized RJ45

LC Wall Plate

Ruggedized LC Array

APPLICATIONS:

- Harsh environments where chemicals, corrosive gases and liquids are commonplace
- Inside and outside industrial plant and equipment that interface with industrial Ethernet networks
- Remote interface applications such as towers and antennae as well as FTTX in PON and at the home applications
- Mobile routers and internet hardware

SPECIFICATIONS:

- IP67 rated to ensure protection from dust and water immersion
- Temperature range of -40°C to 85°C
- Bayonet-style mechanical lock
- Flame retardant materials per UL 94 V-0
- Dual mounting bulkhead design
- Singlemode and multimode fiber
- Can be used with cable types 9/125, 50/125 and 62.5/125
- ODVA Conforming Plug to X interface on tactical with break out
- ODVA Conforming Plug to Plug on tactical cable
- Build to customer need

Z Stack
Pre-Terminated All-purpose Patch Panels

- Rugged, multi-environment design
- 18awg steel chassis with a 16awg Z-stringer for maximum durability
- Available in either ST, SC, FC or LC configuration
- Choices include PC, UPC or APC performance levels
- Indoor/Outdoor, riser or plenum rated configurations available
- 2, 4, 6, 8 and 12 port options
- Custom and hybrid configurations available

NEW!

FROM THE
MCC METAL SHOP

Category 6 Compliant Patch Cords

- All of our Cat 6 patch cords are compliant with TIA/EIA-568B.2-1 standards
- Testing the patch cords ensures channel compliance with applicable standards and compatibility with any correctly installed and tested permanent link cable plant
- Major Custom Cable utilizes the DSP-4300 with DSP-PCI-6S and DTX-1800 with DTX-PCU6 test heads to test our Cat 6 patch cords, and test results can be shipped upon request
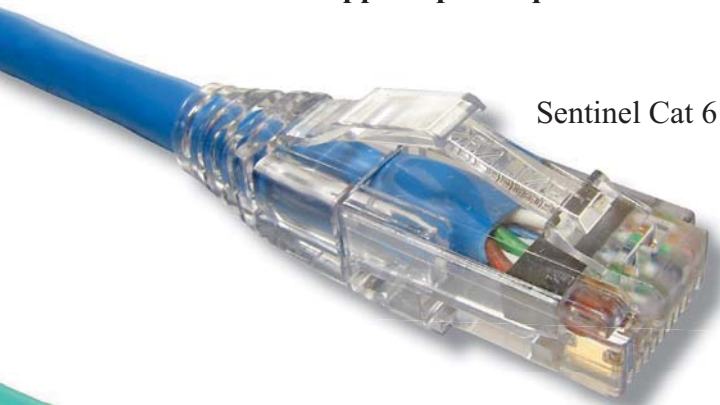
Sentinel Cat 6

10 Gig Cat 6A

FLUKE *DTX-1800* **CERTIFIED**
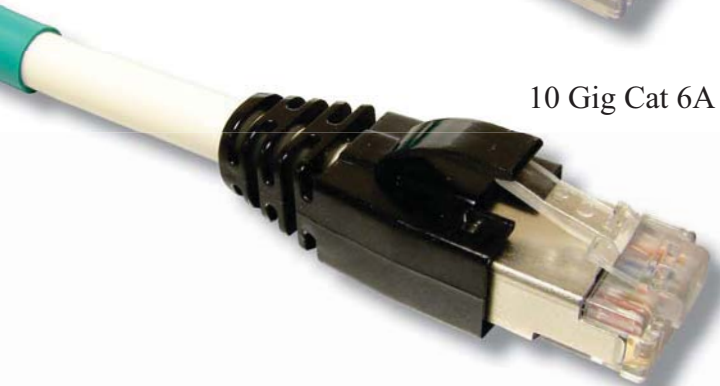
Category 6 compliant patch cords are tested with the latest Fluke testing equipment. Printed test results are standard with each cable.

Category 6 Guaranteed Gigabit Ethernet Patch Cords

- MCC guaranteed gigabit patch cords utilize Category 6 modular plugs and Category 6 cable
- MCC follows the manufacturers recommended procedures to ensure gigabit performance from all patch cords
- Stranded patch cord lengths up to 65ft
- Solid patch cords lengths up to 328ft

Check List:
- CONNECTORS (RJ45 or BLUNT)?
- WIRE CODE?
- CABLE (STRANDED or SOLID)?
- JACKET (PVC or PLENUM)?
- SHIELDED?
- LENGTH?
- COLOR?
- BOOTS?
- CUSTOM IMPRINTING (SHRINK, LABEL, SEQUENTIALLY NUMBERED)?

Panduit Cat 6

Cat 6 shielded available!

RJ45

RJ45 with boots

ISO 9001:2008
Certified

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MCC Major Custom Cable

Category 5E Patch Cords (350 Mhz)

• MCC Cat 5E patch cords are made from the highest quality components and are compatible with 10/100/1000BaseT Ethernet, Token Ring, and ATM over twisted pair. Choose from Mohawk, Belden, Berk-Tek, or globally sourced materials.
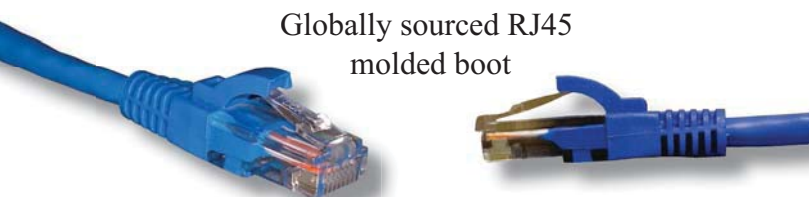
Boot and Jacket Color Options!

GN   BL   PR   HT PK   RD   OR   YL   BK   GY   LT GY   WT

Custom imprint patch cords with your information!

YOUR INFORMATION HERE

Sentinel Cat 5E

Globally sourced RJ45 molded boot

Check List:
- CONNECTORS (RJ45 or BLUNT)?
- WIRE CODE?
- CABLE (STRANDED or SOLID)?
- JACKET (PVC or PLENUM)?
- SHIELDED?
- LENGTH?
- JACKET COLOR?
- BOOTS?
- BOOT COLOR?
- CUSTOM IMPRINTING (SHRINK, LABEL, SEQUENTIALLY NUMBERED)?

Cat 5e Shielded Assemblies with boots

Shielded RJ45/45 4 Pair Stranded PVC Grey With Boots

RJ45/45 4 Pair Stranded PVC Blue With Boots

RJ45/45 4 Pair Stranded PVC Red With Boots

## Category 3 Patch Cords

RJ45/45 4 Pair Solid PVC Grey

Check List:

- CONNECTORS?
- CABLE (STRANDED, SOLID, or SS LINE CORD)?
- JACKET (PVC or PLENUM)?
- LENGTH?
- JACKET COLOR (SILVER SATIN or BLACK)?
- BOOTS (RJ 45 ONLY)?
- BOOT COLOR?
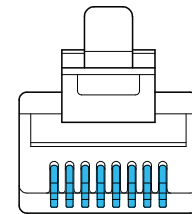- CUSTOM IMPRINTING (SHRINK, LABEL, SEQUENTIALLY NUMBERED)?

Line Cords

- **Line cords are designed for telephone and other low-speed applications**
- **Cords are available in either pin-to-pin, reverse wiring, or custom wiring depending on your specifications**
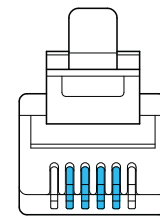- **Our line cords come in a large variety of lengths and are available in silver satin and black**
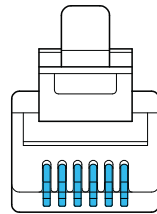
RJ12
6 Conductor

RJ45
8 Conductor
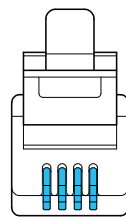
Phone Mod
4 × 4

RJ11
4 Conductor

SENTINEL ™
Connector Systems Inc.

T1 Assemblies

- **T1 assemblies are designed and pinned to work with T1 equipment**
- **T1 circuits can be channelized into 24 voice lines for PABX (Private Automatic Branch Exchange) or 1.544 Mbps data circuits for Internet and Intranet access**

RJ45/45 8 Conductor
Stranded PVC Grey

RJ45
8 Conductor

DB15
Male

110 Patch Cords

- **110 patch cord connectors are available in 1, 2, 3 and 4 pair configurations in Category 3 and 5E patch cords**
- **Available in various lengths and colors**
- **Robust design to ensure fast, repeatable and reliable connections**

110 1 pair

110 2 pair

110 3 pair

110 4 pair

RJ45/110 3 Pair
Stranded PVC Black

110/110 4 Pair
Stranded PVC
Orange

ISO 9001:2008
Certified

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MCC
Major Custom Cable
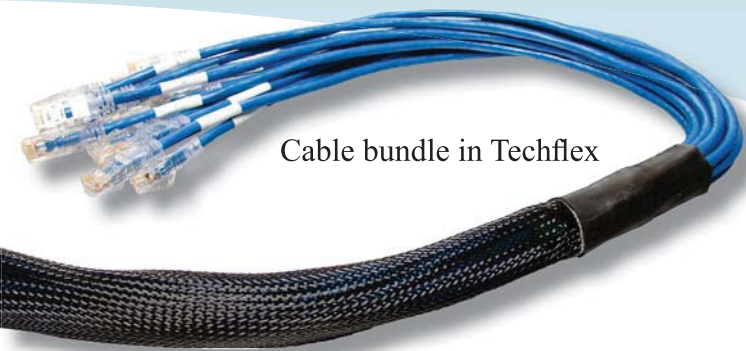
Cable bundle in Techflex
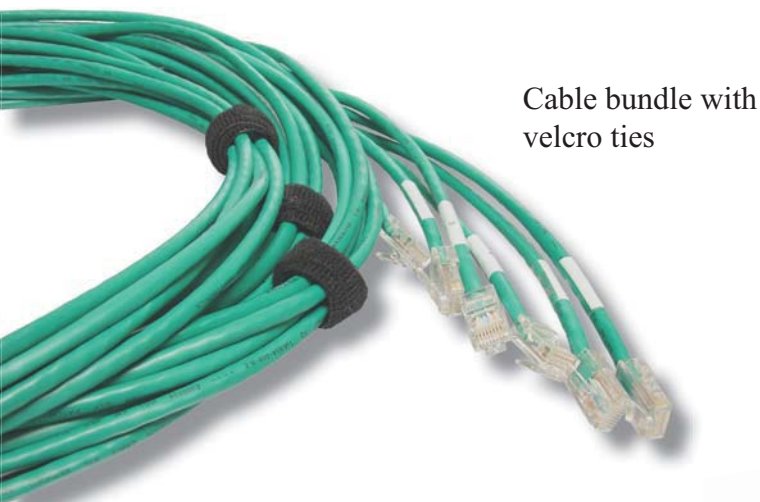
Cable bundle with
velcro ties

Major Custom Cable's skilled production staff will manufacture your patch cord bundles to your designated specifications. Call now and find out what MCC can do for you!

SFP+ (Small Form-Factor Pluggable Plus) copper cable assemblies are a high-performance I/O computing connectivity solutions supporting 10Gb Ethernet and Fiber Channel applications. SFP+ copper modules provide a high port density, configurability, utilization at very low cost and reduced power budget.

Product Features:

Available for 10Gb Ethernet and Fiber Channel applications
Available in .5m, 1m, 2m, 3m, 5m, 7m, 10m and 15m lengths
Assembled with premium Madison 24AWG cable
100 Ohm impedance
Support for 1x, 2x, 4x, and 8x Fiber Channel data rates
Passive Ethernet cable
RoHS compliant
Pull-to-release latching
Compliant to SFP+ MSA
Low power consumption
Low crosstalk
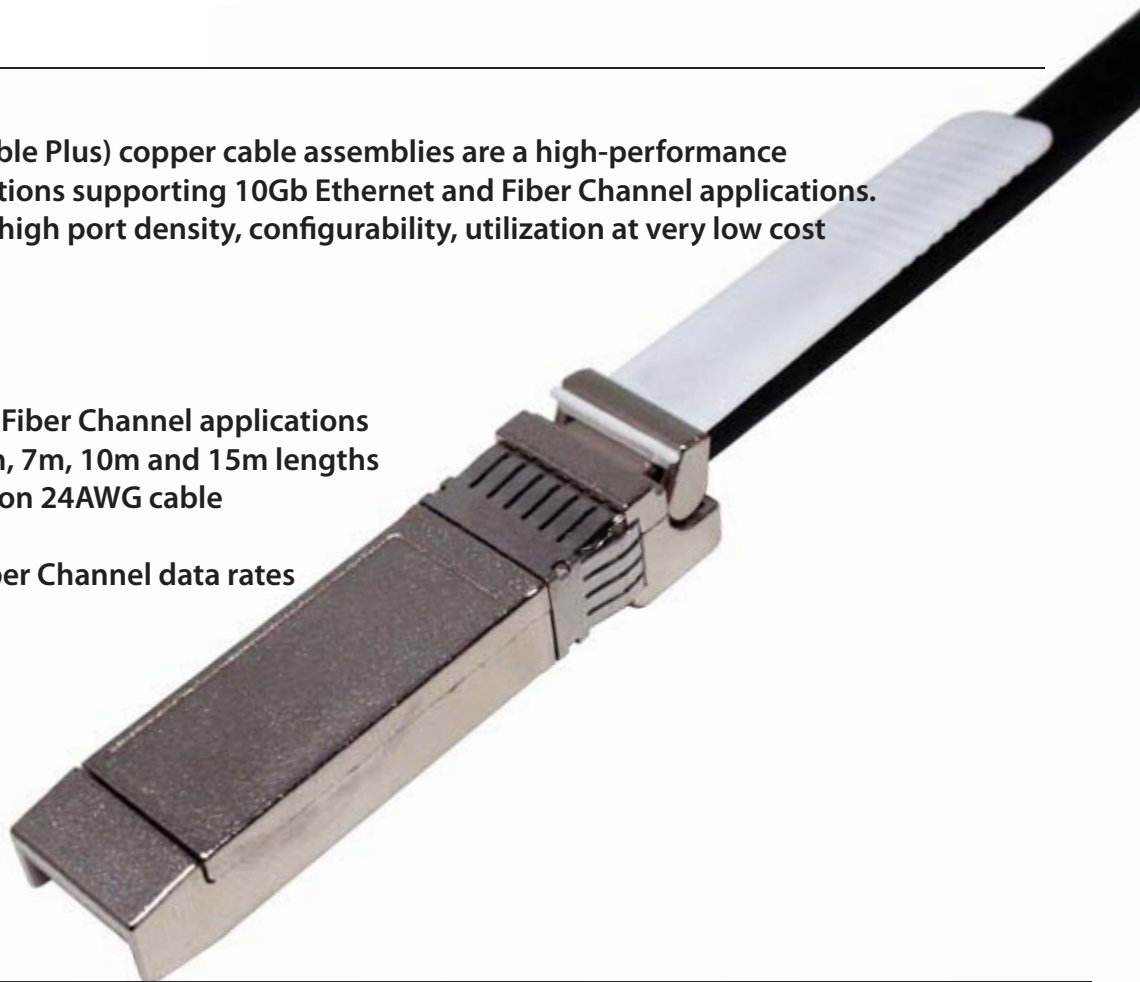
180° Hood

Standard screw down hood

Male Connector   Female Connector

90° Hood

Male Connector   Female Connector

120° Hood

Male Connector   Female Connector

Check List:

- JACKET (PVC or PLENUM)?
- SINGLE or DOUBLE ENDED?
- GENDER?
- HOOD DEGREE (90˚, 120˚, or 180˚)?
- 90˚ or 120˚ HOOD (STANDARD or OPPOSITE EXIT)?
- LATCH TYPE (SCREW, BAIL LOCK, or INTEGRAL LOCK)?
- LENGTH?
- CUSTOM IMPRINTED SHRINK OR LABELS?

- **Telco cable assemblies are used for data and voice applications with punch down blocks, patch panels, and distribution boxes.**
- **They can also be used as extension cables.**
- **Our high quality starts with the purchase of the best cable, connectors, and components, and continues throughout the manufacturing and testing process.**

Integral Lock

Bail Lock

Locking Latch also available on telco hoods

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Major Custom Cable

Check List:

- JACKET (PVC or PLENUM)?
- SINGLE or DOUBLE ENDED?
- GENDER?
- HOOD DEGREE (90˚, 120˚, or 180˚)?
- 90˚ or 120˚ HOOD (STANDARD or OPPOSITE EXIT)?
- LATCH TYPE (SCREW or BAIL LOCK)?
- LENGTH?
- CUSTOM IMPRINTING SHRINK OR LABELS?

Male Connector 110˚ Hood

Male Connector 180˚ Hood

6 RJ45 connectors

90˚ Hood Male to 90˚ Hood Male
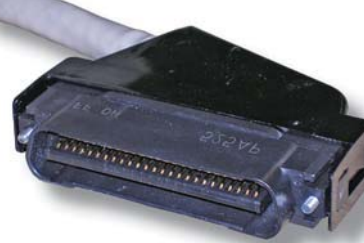
Male Connector 90˚ Hood

Female Connector 90˚ Hood

MOHAWK
Cabling Excellence for Open Architecture

Mohawk is at the forefront of today's Datacom market with over fifty years of industry-leading excellence. MCC is proud to represent an industry leader like Mohawk cable. Mohawk employs the latest in manufacturing technology, which enables them to offer superior products for all your Copper and Fiber Cable requirements. Ask your MCC Account Manager for top quality cable assemblies made with Mohawk cable.

Check List:

- CABLE GAUGE?
- CONNECTORS (AMPHENOL®, NEUTRIK®, SWITCHCRAFT®, or PRECISION®)?
- LENGTH?
- COLOR?
- CUSTOM IMPRINTING (SHRINK, PDL, SEQUENTIALLY NUMBERED)?

Microphone Cables

- **20 gauge, 24 gauge conductors, and quad cable available**
- **Switchcraft®, Neutrik®, Amphenol®, or Precision® connectors**
- **Custom lengths available**

The "CJ" Series

- 24 gauge RSMCA mic cable
- 95% shielded
- Low impedance
- Metal XLR connectors
- 3 to 100 foot lengths

Road Hog

- 24 gauge conductors
- 95% serve shield
- Heavy-duty jacket
- Black Neutrik® connectors
- 3 to 100 foot lengths

The Gold PRO Series

- Black Neutrik® connectors with gold-plated contacts
- 20 gauge cable
- Braided shield
- Professional grade
- 3 to 100 foot lengths

Road Hog

- Gold-plated connectors
- 20 gauge conductors
- 95% serve shield
- Heavy-duty jacket
- Right-angle connectors available

Speaker Cables

- **Round black matte jacket**
- **Bare copper inner conductors**
- **Available with Amphenol®, Neutrik®, Switchcraft®, or Precision connectors**
- **Custom lengths available**

12 Gauge

14 Gauge

The "Commercial" Series

- Professional grade speaker cable
- Round black matte jacket
- Bare copper inner conductors
- Twisted pair inner conductors to reduce inductance
- Available with Amphenol®, Neutrik®, Switchcraft®, or Precision® connectors
- 3 to 100 foot lengths (50 foot maximum for 18 gauge)
- 10, 12, 14, 16, and 18 gauge available

The "SP" series

- Heavy-duty, multi-conductor 13 gauge speaker cable
- Rugged, black matte finish
- Neutrik® Speak-On connectors
- Available in 4 or 8 conductors

Y-Cables

- One conductor, two conductor, and 18 gauge speaker cable options available
- TRS, XLR, RCA, and banana plug connectors available

Instrument Cables

- **High Z cables available with Switchcraft®, Neutrik®, or Precision® connectors**
- **Available in color or cloth covered cables**
- **Custom lengths available**

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MCC Major Custom Cable

Devices

Audio/Video Interface

- Designed to interface laptops and projectors into low Z inputs
- Includes hi/low attenuation and ground lift
- Constructed of 18 gauge steel with recessed connectors for added durability

Direct Box

- Transforms Hi-Z 1/4" input to balanced Lo-Z output
- Heavy-duty steel box
- Superior connectors
- High performance transformer
- Special jack for ground lift eliminates 60 cycle hum
- Parallel 1/4" ouput jack for on-stage monitoring

TDIBLOX
Consumer to Pro Interface

- Converts input from consumer grade equipment (tape decks, CD player) to mic level balanced output
- Gives operator volume control of the outgoing signal
- RCA male inputs, XLR male output

Snakes

- **Eliminates clutter on stage**
- **Perfect for drum kits and keyboard rigs**

6 X 6 Dual Box Sub-Snakes

- Side entry reduces cable clutter
- Heavy-duty metal strain reliefs on boxes
- 2 stage boxes
- Twice as many channels
- Allows input boxes to be placed in independent locations

6-Pack & 8-Pack Sub-Snakes

- Low profile stagebox 3-3/4" X 5" X 1-7/8"
- Neutrik® XLR connectors
- Formed steel boxes
- Heavy-duty, flexible PVC cable jacketing
- Heavy-duty wire mesh strain relief at box
- Heavy-duty wire mesh hanger at the fanout

CVPBLOX
Variable Pad with Mute

- Continuously variable pad via potentiometer on top
- Pull out the knob to mute the outgoings signal "pop" free
- XLR female input, XLR male output

ISOBLOX
1 to 1 Isolation 600ohm

- Allows signal and ground isolation
- Retains a 600ohm load source impedance
- XLR female input, XLR male ouput

DBBLOX
Direct Injection Blox

- Converts high impedance source to low impedance load
- 1/4" input, XLR male output

PADBLOX
-10, -20, or -30db Inline Pad

- Attenuates incoming signals in -10db, -20db, and -30db versions
- Retains impedance
- XLR female input, XLR male output

Check List:
- CONNECTOR TYPE (BNC, SMB...etc)?
- NUMBER OF COAX CABLES (1, 2, 3, 6, 12...etc)?
- JACKET (PVC or PLENUM)?
- LENGTH?
- GENDER?
- CUSTOM IMPRINTING (SHRINK or LABEL)?

Round 735
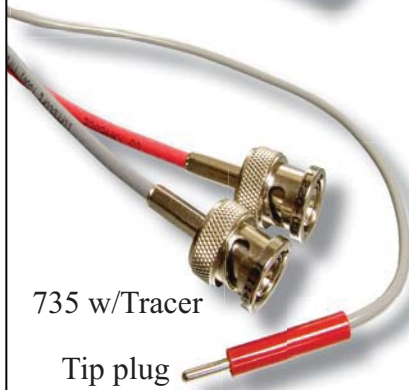
Siamese 735

6 Pack 735

12 Pack 735

Mini SMB

Mini SMB 90

1.0/2.3RF

735 w/Tracer

Tip plug

SMZ

BNC 90

Mini BNC

BNC

Mini WECO 440

WECO 358

Diameter comparison   (1:1 Scale)

0.13 inch   735

0.24 inch   734

Maximum circuit distances with no customer DSX panel				
Circuit Type	Category 3 UTP	Category 5E/6 UTP	734 Type Coax	735 Type Coax
T-1	170M (557ft)	206M (677ft)	N/A	N/A
CEPT-1 (E-1)	126M (412ft)	158M (517ft)	395M (1297ft)	177M (580ft)
T-3	N/A	N/A	160M (524ft)	82M (268ft)
CEPT-3 (E-3)	N/A	N/A	175M (574ft)	90M (294ft)

42

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Major Custom Cable

Available with a wide range of connectors:

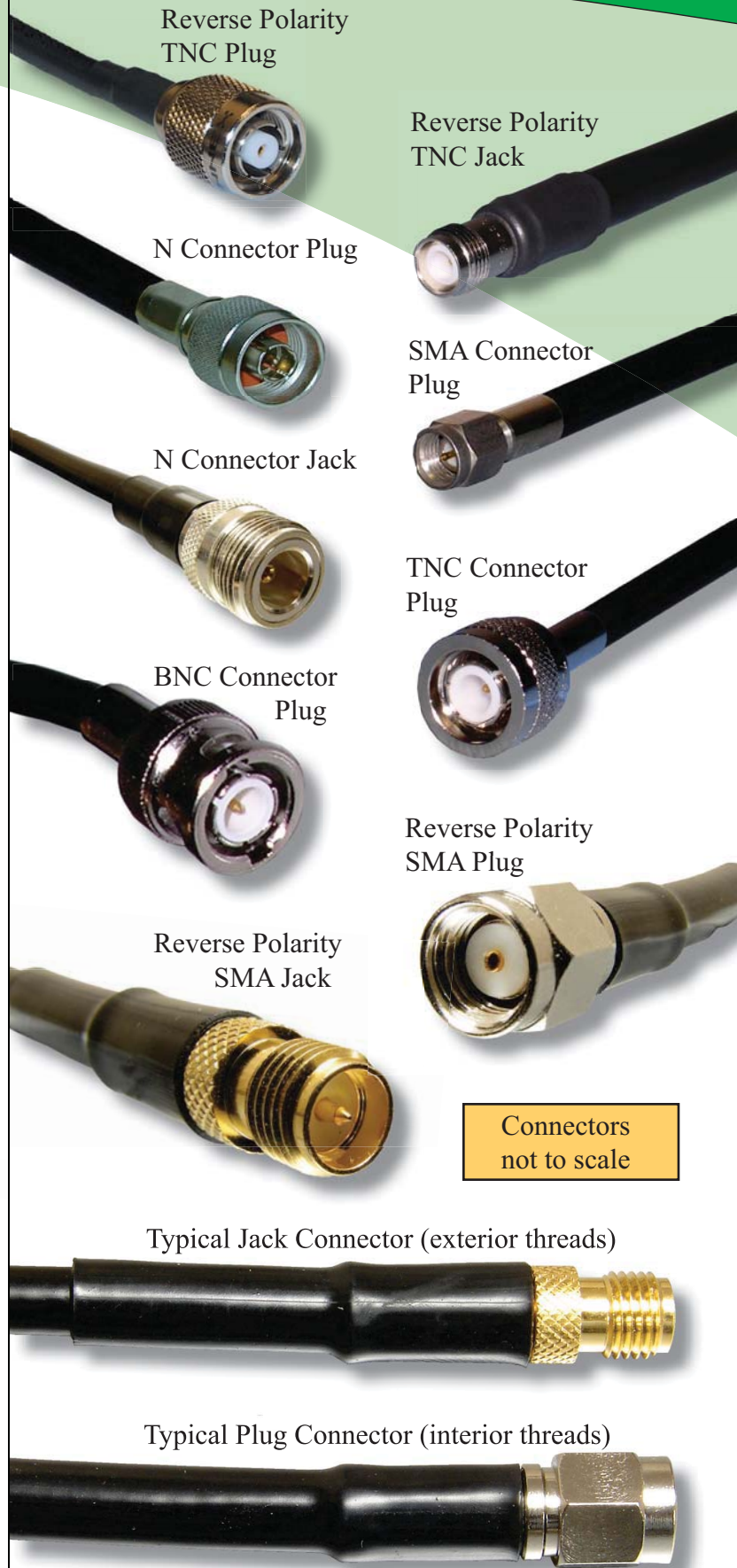|	
• **7-16**	• **HN**
• **BNC**	• **QDS**
• **N**	• **Mini-UHF**
• **SMA**	• **UHF**
• **TNC**	

Standard and Reverse Polarity Options!

Applications:
- 2 way land communications
- CLEC
- Broadband Wireless
- IEEE 802.11a thru IEEE 802.11g
- Wireless Internet
- Any standard outdoor installation where RG-type 50 ohm coax is required.
- Riser and plenum options are available.

Coax cable diameters   (1:1 Scale)

0.195 inch

195 Series

0.4 inch

400 Series

- **Low halogenated, UV and weather resistant PE jacket material.**

- **Tinned copper braided shield coupled with an aluminum tape ensure maximum shielding from EMI/RFI.**

- **The foam PE dielectric coupled with copper clad aluminum center conductor ensure maximum flexibility with similar performance attributes to less installer friendly corrugated products.**

- **Compared to standard RG type cables, these low loss cables offer the best in signal clarity, and better RF Shielding.**

Reverse Polarity TNC Plug

Reverse Polarity TNC Jack

N Connector Plug

SMA Connector Plug

N Connector Jack

TNC Connector Plug

BNC Connector Plug

Reverse Polarity SMA Plug

Reverse Polarity SMA Jack

Connectors not to scale

Typical Jack Connector (exterior threads)

Typical Plug Connector (interior threads)

- For Cisco 7000, 2500, & 4000 NP-4T Series Routers
- For Cisco 2509 through 2512 Series Routers, use Octal Cables
- We make Cisco Router Cable Assemblies for each series listed: 7000 • 4000 • 3800 • 3600 • 2600 • 2500 • 1600 • 1500 • CS500
- Console Cables for all Cisco hardware

Check List:
- ROUTER MODEL?
- ROUTER TYPE (DCE or DTE)?
- STANDARD SUPPORTED (V.35, RS232, ...ETC.)?
- JACKET (PVC or PLENUM)?
- CONNECTOR TYPE (DB25, V.35, ...ETC.)?
- CONNECTOR GENDER (MALE or FEMALE)?
- LENGTH?
- CUSTOM IMPRINTING (SHRINK, LABEL)?

DB9

DB15

DB25

DB50

HD60

MD50

HD200

HD60 to DB25

V.35 to HD60

MD50 to MD50

V.35 to DB50

HD200 to 8 V.35

Providing OEM solutions for hardware manufacturers such as: Nexterna, 3COM, HP, SEL, IBM

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Check List:
- ROUTER MODEL?
- JACKET (PVC or PLENUM)?
- CONNECTOR TYPE (DB9, DB25, DB37, or DB50)?
- HOOD (METAL, PLASTIC, or METALIZED PLASTIC)?
- CONNECTOR GENDER (MALE or FEMALE)?
- LENGTH?
- CUSTOM IMPRINTING (SHRINK, PDL, SEQUENTIALLY NUMBERED)?

Check List:
- CONNECTOR TYPE (DB9, DB15, DB25, etc.)?
- CONNECTOR GENDER (MALE or FEMALE)?
- MODULAR JACK (RJ11 or RJ45)?
- COLOR?
- PIN-OUT?

- DB assemblies are used for many different applications in the telecommunication industry
- The data interface for each DB connector:
  - DB9 - RS232
  - DB15 - X.21
  - DB25 - RS530/232
  - DB37 - RS449

ADAPTERS

Modular adapters eliminate the need for conventional, bulky, data communications cabling in RS232/X.21 environments, relying instead on standard UTP wiring schemes. Perfectly suited for moves, adds, and changes, once attached to your hardware, changing out cables is as simple as plugging, and un-plugging an RJ45.

DB9 Male Metal Hood

DB9 Female Metalized Plastic Hood

Thumb Screws available

DB25 Male Metalized Plastic Hood

DB25 Female Metal Hood

Thumb Screws available

DB37 Male Plastic Hood

DB37 Female Metal Hood

DB50 Male Metal Hood

DB50 Female Plastic Hood

Thumb Screws available

RJ45 to DB9 Male Adapter Yellow

DB25 Adapter rear view

RJ11 to DB25 Male Adapter Grey

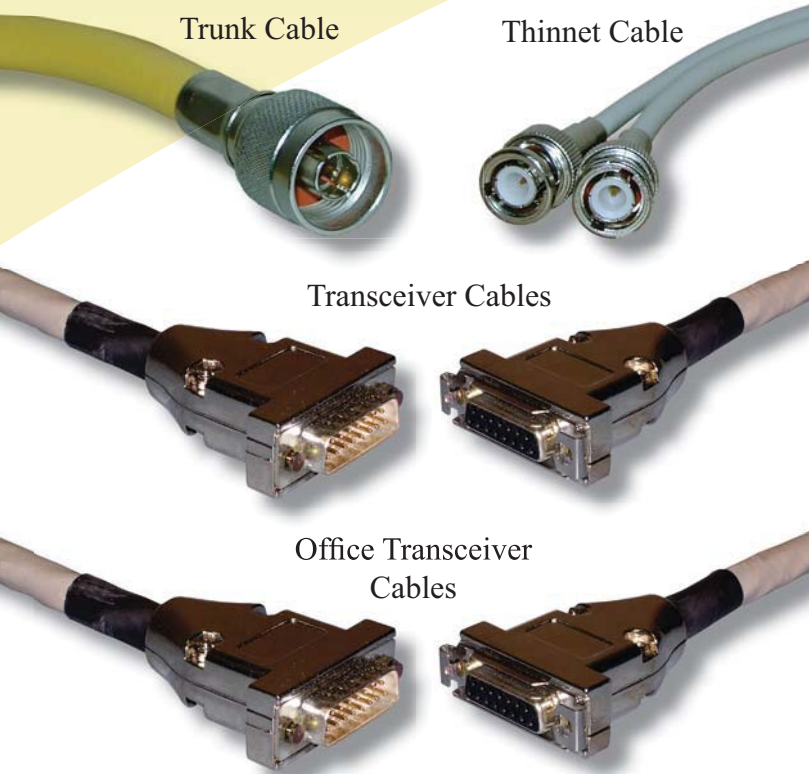RJ45 to DB15 Female Adapter Grey

RJ45 to DB25 Male Adapter Red

RJ45 to DB25 Female Adapter Blue

ETHERNET ASSEMBLIES   DIN

- **MCC's Ethernet Assemblies are fully IEEE 802.3 compliant**
- **Boots available upon request**
- **AUI Assemblies with 90° hoods available upon request**

Trunk Cable   Thinnet Cable

Transceiver Cables

Office Transceiver Cables

6 Pin Mini Male   6 Pin Mini Female

6 Pin Din Male   6 Pin Din Female

5 Pin Din Male   5 Pin Din Female

6 Pin Mini Male   4 Pin Mini

V.35 ASSEMBLIES

- **V.35 - high speed modem cable assembly used to interconnect controllers (pc's, etc....) to high speed modems**
- **Available with 19 or 34 pins**

- **Standard sized DIN connectors (originated by the Deutsches Institut für Normung of Germany) per IEC 60130-9, IEC 60574-3 are 13.2mm in diameter. These connectors are available in 3, 4, 5, 6, 7, 8, and 9 pin configurations including a 270 degree axial offset version of the 8pin. All are available in either male or female.**

- **Mini-DIN connectors are 9.5 mm in diameter and come in seven patterns (originated by the Deutsches Institut für Normung of Germany) . 3, 4, 5, 6, 7, 8, and 9 pin configurations available. All are available in either male or female.**

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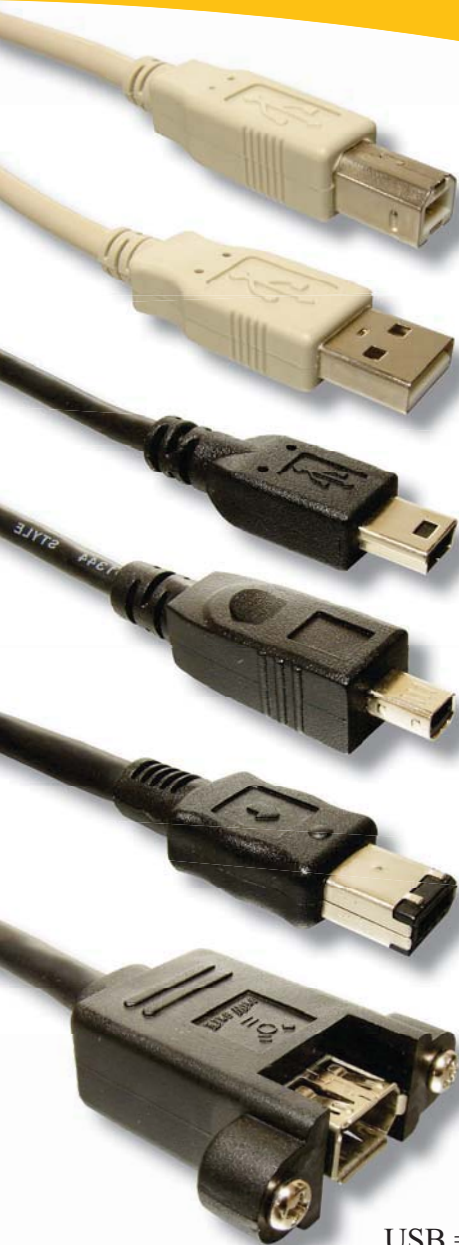
Type B USB

Type A USB

Mini USB

Mini USB

FireWire - Male

FireWire - Female

USB = Universal Serial Bus

Centronics 50 Male

Micro D68 Male

Micro D50 Male

DB50 Male

- Designed for connections between electronic de-vices and personal computers. Mini USB's are now common on digital cameras, MP3 players, and cell phones.

- MCC can offer a wide range of port convertors such as RS232 to USB and Ethernet to USB.

- Ask about our line of active and passive extenders to push the maximum length tolerance past the 5 meter threshold.

- IEEE 1394 Firewire 400 is avaible in traditional 4 and 6 pin varieties and standard lengths.

- Small Computer System Interface (SCSI) is a parallel interface standard used by Apple Macintosh computers, PCs, and many UNIX systems for attaching peripheral devices to computers
- SCSI interfaces provide for faster data transmission rates (up to 320 megabytes per second) than standard serial and parallel ports
- In addition, you can attach many devices to a single SCSI port, so that SCSI is really an I/O bus rather than simply an interface

EXTENDERS

HD15 with Audio

- **Max length 180 meters (590 ft.) with 1 Zero Skew Cat 5E patch cord**
- **USB powers PC side connector**
- **DC power supply powers monitor/projector side connector**
- **LED indicators**
- **Resolution: 1080p**

180 m

Back

LED Indicators

HDMI Extender

60 m

- **Max length 60 meters (196 ft.)**
- **Uses 2 Cat 5E patch cords**
- **HDMI cables not included**
- **Power required on PC side via DC power supply**
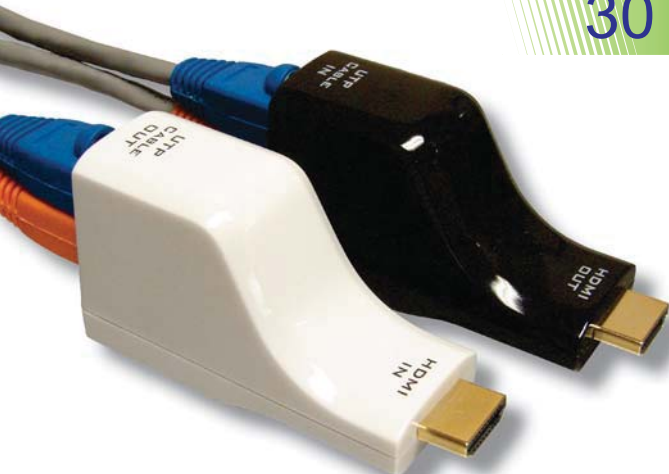- **Riser or Plenum rated**
- **Resolution: 1080p**

HDMI Shuttle

- **Max distance 30 meters (100 ft.)**
- **Requires 2 Cat 5E or 6 patch cords**
- **Color coded inputs and hoods**
- **No power required**
- **Resolution: 1080p**

30 m

HDMI Extender Wall Plate

- **Max distance 30 meters (100 ft.)**
- **Requires 2 Cat 5E or 6 patch cords**
- **No power required**
- **Resolution: 1080p**

30 m

Wall Plates!

INPUT

OUTPUT

Back

Cable 1   Cable 2

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HDMI over Fiber

- **4 Fiber 50/125/ LCD/LCD**
- **1 Cat 5E Patch Cord**
- **Power required on PC side up to 100 meters**
- **Power on both ends over 100 meters up to 1200 meters**
- **Reel option available**
- **Resolution: 1080p**

1200 m

HDMI Amplifier

- **Uses 2 PVC HDMI cables and 1 extender**
- **No power required**
- **Covered in heat shrink**
- **Resolution: 1080p**

30 m

USB 2.0 over Cat 5E

- **Max length 45 meters (150 ft.)**
- **Uses 1 Cat 5E patch cord**
- **A Male / A Female**
- **Extra USB cable not included**

45 m

USB 2.0 Keystone A Female

- **Max Length 20 meters (65 ft.)**
- **Uses Cat 5E cable**
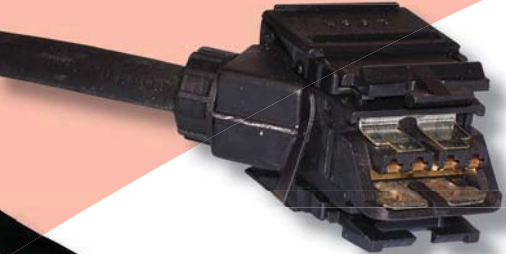- **Available in any Keystone wallplate**

Back

20 m

Wall Plates!
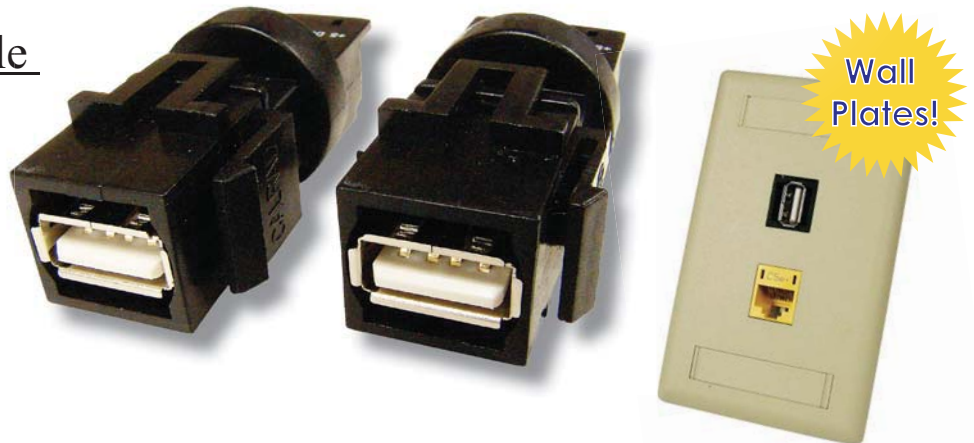
TOKEN RING ASSEMBLIES

- **A popular type of Local Area Network (LAN) utilizing a token passing access method and a ring topology**

TRDC

RJ 45 Shielded

DB9 Male

Twinaxial

RIBBON CABLE

- **A flat, thin cable containing many parallel wires**

- **Their shape makes ribbon cables ideal for situations where space needs to be conserved**

- **They're used within a computer chassis to connect disk drives to the disk drive controllers**

- **All ribbon cable assemblies may be custom made to any length and with any configuration**
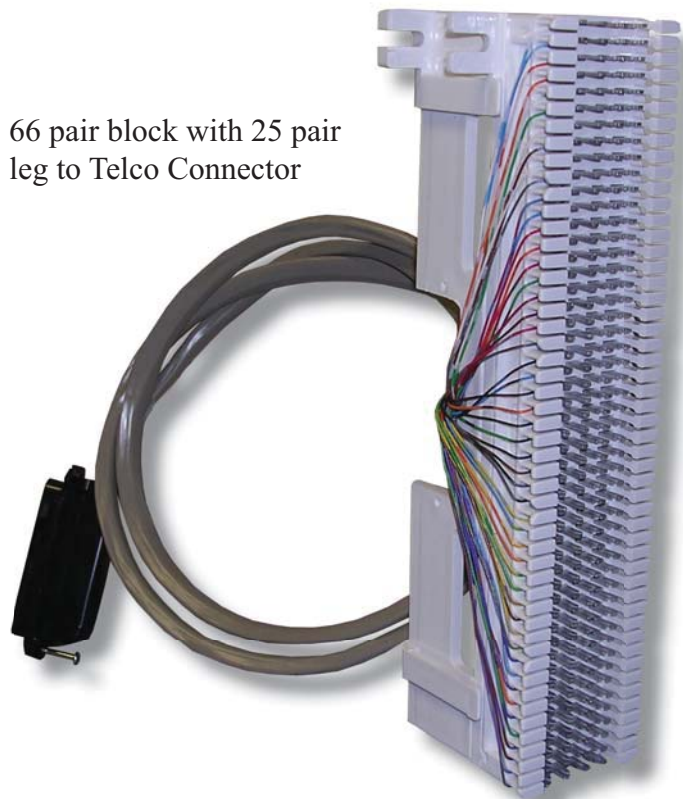
MCC
Major Custom Cable
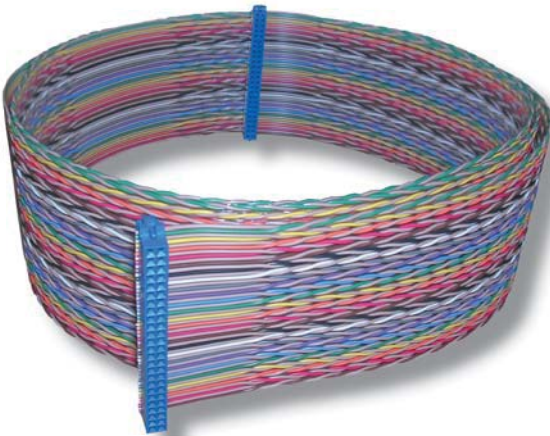
66 pair block with a Telco Connector on each side

300 pair block with 12 25 pair legs to Telco Connectors
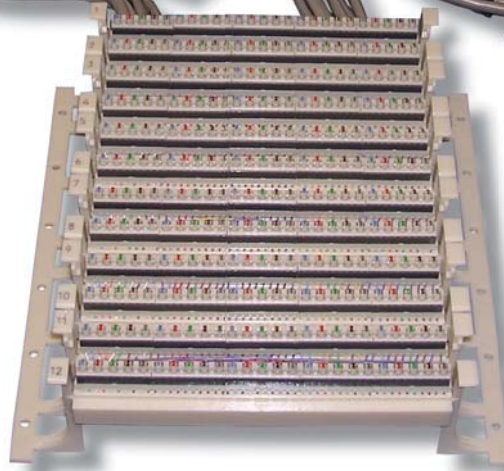
66 pair block with 25 pair leg to Telco Connector

- **110 Type punch blocks make it easy to configure a compact and adaptable wall or backboard**

- **Designed to support voice and high speed data application**

- **Available in 50, 100, 300, 600 and 900 pairs**

- **66 Blocks terminated with either 1 or 2 25-pair cables.**

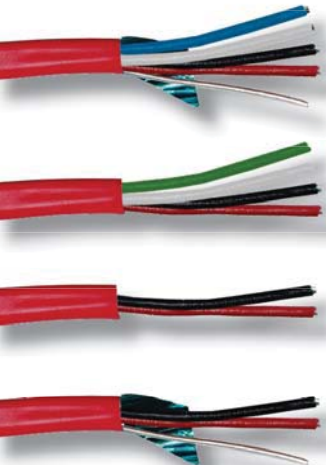- **Legs available for your specific needs**

SECURITY CABLES

SURVEILLANCE ● SAFETY ● SECURITY

Major Custom Cable provides Connectivity Cable and Cross Connect Solutions for:

- Access control systems
- Alarm systems
- Business security systems
- Card access systems
- CCTV systems
- Commercial security systems
- Security equipment
- Security solutions
- Security systems
- Small business security systems
- Surveillance systems
- Video surveillance systems

Our Cables support POE and are POE + Ready

Security Camera Connectivity

PoE Ethernet Switch

RG6 / 18-2C

Fire Alarm Cable
- 2 and 4 conductor
- PVC and Plenum
- Shielded and non-shielded

18 Gauge 2-Conductor

BNC

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MCC
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As our name states, we can build custom assemblies to your specifications. Our knowledgeable Account Managers are ready to serve you and answer any questions you may have. Call Major Custom Cable and let us custom build your cable assembly to your specific needs.
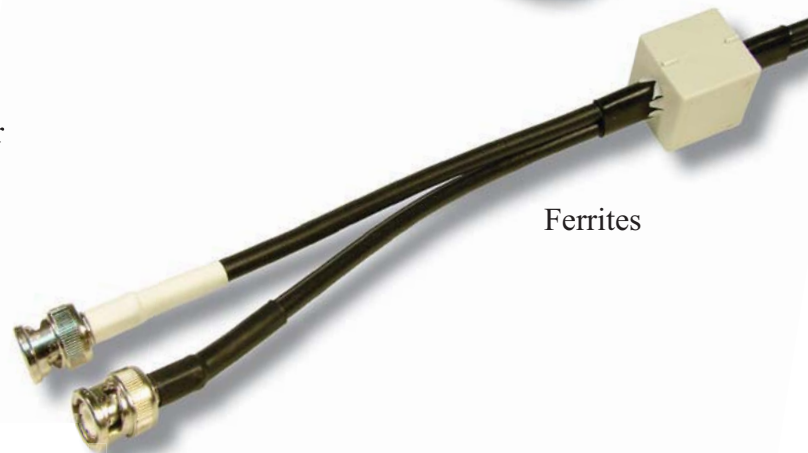
12 SC Connectors to 12 SC Connectors on 2 spools

Octopus Assembly
Cat 3 90˚ Female Connector to 12 Female DB25

Ferrites

HD 15 Male to Male, 3.5mm Male to Male, and DB9 Male to Female Bundled in Techflex

10P MIL SPEC circular to 10 mini-pins

Telco connector male to
3 Telco connectors male

4 SC's to 4 SC's on a spool
with a Pulling Eye with custom
colored jacket

Loosetube assembly
8 ST's to 8 ST's on a Spool

HD60 Male to 4 Female DB25

Z Stack Spool

ISO 9001:2008
Certified

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HVB01

HVB02

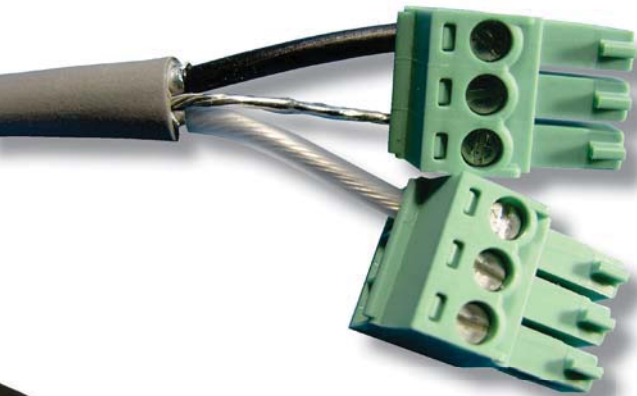# Custom Video Breakout

Combining:

- HDMI
- S-Video
- Audio
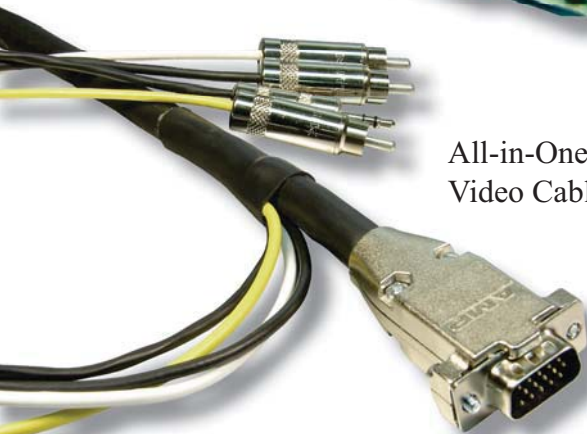- SVGA
- Composite

FROM THE
MCC METAL SHOP

In-house Metalwork:

- Fabrication
- Painting
- Engraving
- Silk screening

You design it, we build it!

Phoenix Connectors

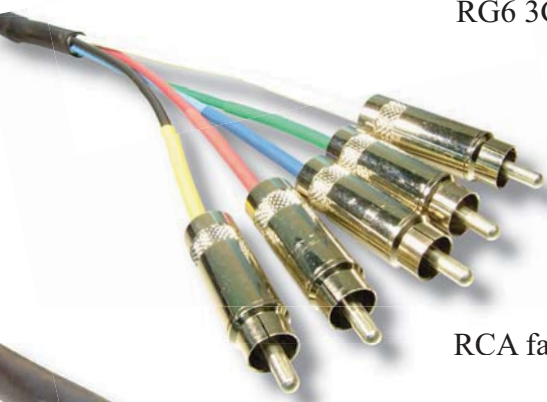All-in-One Audio Video Cable

Custom Serial Cable

VGA HD15 connector

HDMI

RG6 3GHz Quad Shield

RG6

RCA fanout

S Video

DVI male

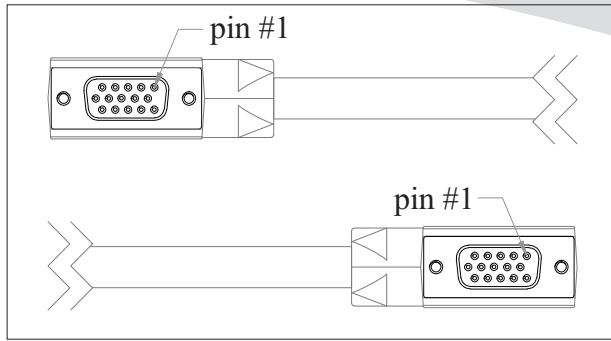DVI to DVI

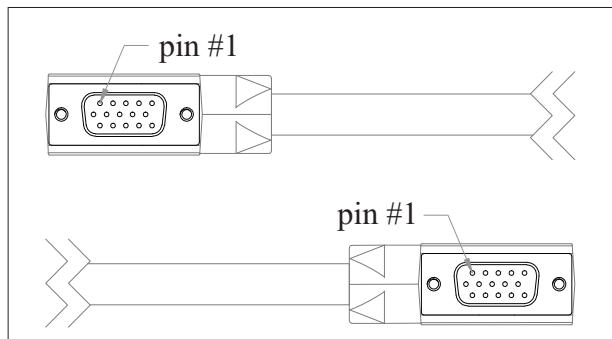5 BNC to
5 BNC RGB
HV coaxial

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VGA HD15

Female

Male

Pin-Outs

PIN	SIGNAL	CONDUCTOR
1	RED	RED
6	RED GROUND	COAX
2	GREEN	GREEN
7	GREEN GROUND	COAX
3	BLUE	BLUE
8	BLUE GROUND	COAX
13	HORIZONTAL	WHITE
10	GROUND	COAX
14	VERTICAL	BLACK
5	GROUND	COAX

Telcos

Female

Standard (Right)

Opposite (Left)

Male

Standard (Right)

Opposite (Left)
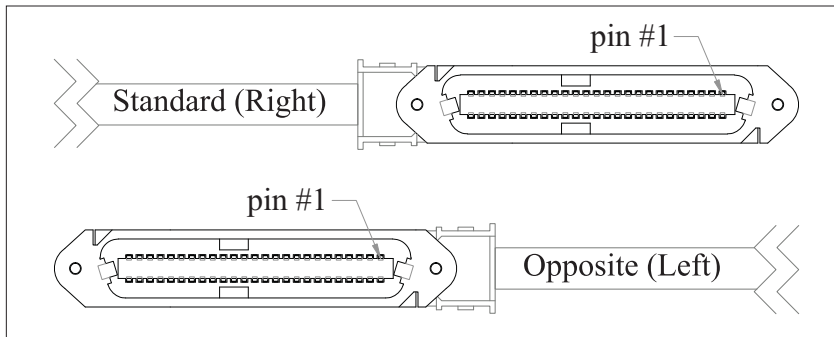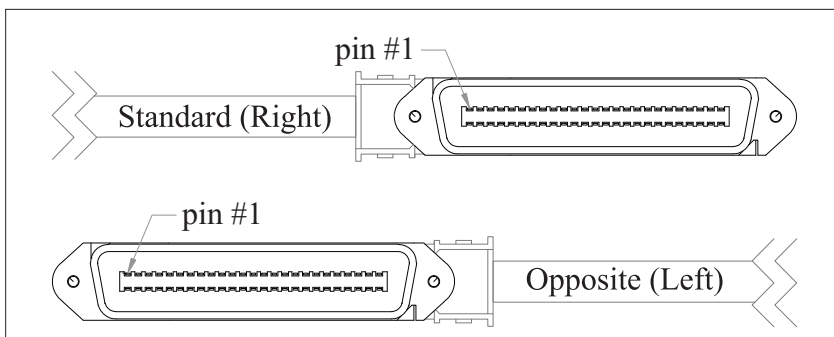
RJ21X Pin-Outs

BLUE	WHITE	1		26	WHITE	BLUE
ORANGE	WHITE	2		27	WHITE	ORANGE
GREEN	WHITE	3		28	WHITE	GREEN
BROWN	WHITE	4		29	WHITE	BROWN
SLATE	WHITE	5		30	WHITE	SLATE
BLUE	RED	6		31	RED	BLUE
ORANGE	RED	7		32	RED	ORANGE
GREEN	RED	8		33	RED	GREEN
BROWN	RED	9		34	RED	BROWN
SLATE	RED	10		35	RED	SLATE
BLUE	BLACK	11		36	BLACK	BLUE
ORANGE	BLACK	12		37	BLACK	ORANGE
GREEN	BLACK	13		38	BLACK	GREEN
BROWN	BLACK	14		39	BLACK	BROWN
SLATE	BLACK	15		40	BLACK	SLATE
BLUE	YELLOW	16		41	YELLOW	BLUE
ORANGE	YELLOW	17		42	YELLOW	ORANGE
GREEN	YELLOW	18		43	YELLOW	GREEN
BROWN	YELLOW	19		44	YELLOW	BROWN
SLATE	YELLOW	20		45	YELLOW	SLATE
BLUE	VIOLET	21		46	VIOLET	BLUE
ORANGE	VIOLET	22		47	VIOLET	ORANGE
GREEN	VIOLET	23		48	VIOLET	GREEN
BROWN	VIOLET	24		49	VIOLET	BROWN
SLATE	VIOLET	25		50	VIOLET	SLATE

AMP Pin-Out Available.

A: USOC FLIPPED (RJ11)

PIN	PAIR
1 - 6	WHT/GRN
2 - 5	WHT/ORG
3 - 4	BLU/WHT
4 - 3	WHT/BLU
5 - 2	ORG/WHT
6 - 1	GRN/WHT

B: USOC ST THRU (RJ11)

PIN	PAIR
1 - 1	WHT/GRN
2 - 2	WHT/ORG
3 - 3	BLU/WHT
4 - 4	WHT/BLU
5 - 5	ORG/WHT
6 - 6	GRN/WHT

C: USOC FLIPPED (RJ45)

PIN	PAIR
1 - 8	WHT/BRN
2 - 7	WHT/GRN
3 - 6	WHT/ORG
4 - 5	BLU/WHT
5 - 4	WHT/BLU
6 - 3	ORG/WHT
7 - 2	GRN/WHT
8 - 1	BRN/WHT

D: USOC ST THRU (RJ45)

PIN	PAIR
1 - 1	WHT/BRN
2 - 2	WHT/GRN
3 - 3	WHT/ORG
4 - 4	BLU/WHT
5 - 5	WHT/BLU
6 - 6	ORG/WHT
7 - 7	GRN/WHT
8 - 8	BRN/WHT

E: EIA 568A (RJ45) ST THRU

PIN	PAIR
1 - 1	WHT/GRN
2 - 2	GRN/WHT
3 - 3	WHT/ORG
4 - 4	BLU/WHT
5 - 5	WHT/BLU
6 - 6	ORG/WHT
7 - 7	WHT/BRN
8 - 8	BRN/WHT

P: 258A, 568B, RJ45 ST THRU

PIN	PAIR
1 - 1	WHT/ORG
2 - 2	ORG/WHT
3 - 3	WHT/GRN
4 - 4	BLU/WHT
5 - 5	WHT/BLU
6 - 6	GRN/WHT
7 - 7	WHT/BRN
8 - 8	BRN/WHT

T: 10 BASE T RJ45 1, 2, 3, 6 ST THRU (PAIRS ONLY)

PIN	PAIR
1 - 1	WHT/BLU
2 - 2	BLU/WHT
3 - 3	WHT/ORG
4	NC
5	NC
6 - 6	ORG/WHT
7	NC
8	NC

V: 568B CROSSOVER

PIN	PAIR
1 - 3	WHT/ORG
2 - 6	ORG/WHT
3 - 1	WHT/GRN
4 - 4	BLU/WHT
5 - 5	WHT/BLU
6 - 2	GRN/WHT
7 - 7	WHT/BRN
8 - 8	BRN/WHT

Z: 1000 BASE T CROSSOVER ETHERNET CROSSOVER

PIN	PAIR
1 - 3	WHT/GRN
2 - 6	GRN/WHT
3 - 1	WHT/ORG
4 - 7	BLU/WHT
5 - 8	WHT/BLU
6 - 2	ORG/WHT
7 - 4	WHT/BRN
8 - 5	BRN/WHT

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Terms and Conditions

Warranty

A limited lifetime workmanship warranty is provided on all products manufactured by MCC, Inc. The warranty is limited to repairing or replacing, at MCC's discretion, any product proven to be defective upon inspection. MCC is not responsible for components or workmanship provided by outside suppliers. Abuse, alteration, or misuse invalidates all warranties.

Terms

Pre-approved credit terms are net 30 days. All orders must include a purchase order number. All orders should be emailed or faxed to MCC.

Purchase Order Cancellation

1. All PO cancellations must be requested by email or fax.
2. All PO cancellations must clearly state company name, contact name, date, purchase order number, and part number(s) of the merchandise.
3. All cancellations must be acknowledged by email by a representative of MCC.
4. The customer who requests the order cancellation is responsible for all costs related to any cut or spent materials, freight, penalties and restocking fees incurred by MCC up to the time of the cancellation.
5. Orders for custom manufactured products are non-cancellable and non-returnable.

Quotes

All quotes are good for 30 days. After 30 days, MCC reserves the right to make price adjustments to the quote due to market driven price increases. All lead times are subject to material and production availability at the time the order is placed.

R.M.A. (Returned Merchandise Authorization)

1. R.M.A.'s should be requested by email or fax.
2. R.M.A. requests should clearly state company name, contact name, date, purchase order number, and part number(s) of the merchandise.
3. All R.M.A.'s should be submitted to an MCC representative within 30 days of the invoice date.
4. All R.M.A.'s require an R.M.A. number. The number is issued by MCC after initial review of the R.M.A. request.
5. R.M.A.'s require the R.M.A. number clearly displayed on the outside of the carton. Merchandise returned to MCC without an R.M.A. number will be refused.
6. R.M.A. numbers are valid for 30 days from issue date.

MCC
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