Multifibre cable assemblies are becoming the solution of choice for many installations and are more popular across the whole industry.

**Speed of installation**

Up to 80% faster installation compared to traditional installation techniques - splicing / field termination.

**Reduced cost of installation**

Lower amount of time during installation provides substantial cost saving of installation process.

**Tested high quality product ready for installation**

Our components control provides products made to the highest standard.

**No fibre termination / splicing skills required**

Multifibre assemblies are ready made - no fibre optic termination or splicing procedure knowledge is required.

**No fibre termination / splicing equipment required**

Installation does not require costly equipment needed for splicing / field termination

**Material savings**

As assemblies are ready made - no excess stock of materials, connectors or cables is required, providing an additional cost savings.
Multifibre Assemblies Range

Quintis (Tight Buffered)
Tight Buffer cable applied
Ideal for short internal links
900μm tails for connection inside patch panel/ODF/wall box
1000N pulling force resistant
Channel link loss test included

Full Breakout
Ruggedized 2mm tails for front panel/equipment connection
Cost effective for short internal links
Channel link loss test included

Quintis Micro
Compact size, low weight and flexible Micro Cable
Ideal for high density environment
Selection of tails - 900μm or 2mm
Zero U solution
Channel link loss test included

Quintis Nano
Compact size
Ruggedised cable structure
Extremely low weight
High friction material for ease of installation
Selection of 900μm or 2mm tails
Channel link loss test included

Quintis Prime (Loose Tube)
Flexible design for Loose Tube cables
High Fibre Counts Up to 144 fibres
2mm or 900um tails selection
Secure FLP Breakout Modules - 1000N pulling force resistant
MTP or discrete connectors
Single or dual stage Breakout
Zero U solution

Plug & Play Quick Panel System
Extreme fast, easy to install plug and play fibre optics system
Ready made trunks and pre-populated sealed panels
1 mating action for instant 12/24 fibre connection
Innovative Design - UltraSlim panel applied
High Density - Up to 96 LC ports per 1U space

Plug & Play Modular Cassette System
Ultra High density - up to 288 LC ports per 2U space
Compact Size ideal for high density environment of Data Centre SAN
Ready made system for fast installation
Ideal for network expansion - moves, adds and changes

Redeployable Cable Assemblies
Cable assemblies supplied on portable drum
Tactical PU cable option available
Re-usable pulling system
Very high crush resistance protection tubing
2mm or 900μm tails option
Enterprise / Campus

In Enterprise/ Campus environment multifibre assemblies are spanning fibre optics links between buildings (Campus) or are used as backbone cabling inside the buildings (Enterprise).

1. Assembly Connected to the front of patch panel
   • 2mm tails applied

2. Full Breakout Cable Assembly
   • Ideal for short internal links
   • 2mm ruggedised tails for direct connection to active equipment / front panel

3. Assembly Connected to the active equipment
   • 2mm tails applied

4. MTP® Trunk

5. Quick Panel System
   • Ultra fast installation
   • Up to 96 fibre ports in 1U space
   • Innovative design - ultra slim size
   • Connect 12/24 fibres instantly

6. Quintis (TB)
   • Ideal for short internal links
   • 900μm tails for connection inside patch panel/ODF/wall box
   • 1000N pulling force resistant
   • Channel link loss test included

7. Assembly Installed inside patch panel
   • 900μm tails applied

8. Quintis Prime (LT)
   • Internal or External application
   • Loose Tube Cable selection available
   • 900μm tails for installation inside patch panel
   • 2mm tails option available
   • FLP (FirstLight Prime) Secure breakout module applied
   • 1000N pulling force resistant
Data Centre

The amount of enterprise data transmitted and stored is continuing to grow exponentially. Data centres which host a large number of interconnections between servers, switches and storage devices are especially affected. Contemporary SAN (Storage Area Network) can contain thousands of FC (Fibre Channel) ports. Mission-critical applications require the highest reliability, as no downtime is acceptable. New trends and technologies like server virtualisation will require even more bandwidth and increase the demand for high density low insertion loss cabling.

1. Quintis Nano
   - Ruggedised cable structure
   - Extremely low weight
   - High friction material for ease of installation
   - Selection of 900μm or 2mm tails

2. Assembly Installed inside patch panel
   - 900μm tails applied

3. Quintis Micro
   - Compact size, low weight and flexible Micro Cable
   - Ideal for high density environment
   - Selection of tails - 900μm or 2mm
   - Zero U solution available
   - Channel link loss test included

4. Assembly Connected to the Active Equipment
   - 2mm tails applied
   - Zero U solution
In the enterprise environment all data must be stored and archived by storage area networks (SAN). Data centre backbone products like SAN directors support hundreds of optical ports therefore single cabinets must host thousands of optical interconnections and patchcords. SAN must feature high density and modularity for easy reconfiguration of cabling infrastructure.

1. LC Patch Cords
2. MTP® LC Ruggedised Fan Out
   - MTP - LC cable assembly
   - High Density up to 144 Fibres
   - Selection of Micro Cable, Nano Cable and Loose Tube Cable structures
   - 2mm tails for direct connection to active equipment.
3. MTP® Cassette (LGX footprint)
4. UltraSlim Panel
   - Ultra fast installation
   - Up to 96 fibres in 1U space
   - Innovative design - ultra slim size
   - Connect 12/24 fibres instantly
5. MTP® Trunk
   - High Density Up to 144 Fibres
   - 12/24 Fibre Ferrule MTP Interface
   - Selection of Micro Cable, Nano Cable and Loose Tube Cable structure
6. MTP® Adaptor Plate
7. Quintis HD Modular System
   - Modular Design
   - High Fibre Density - up to 288 LC ports in 2U
   - Integrated High Density Fibre Cable Management
   - Module option with MTP Interface, Pre-assembled Cable or Splice Management
Telecom Central Office

Our versatile family of multifibre assemblies provides tailored solutions for most demanding Telecommunication field. First-Light family allows to apply ultra high density assemblies - with core counts as high as 144 fibres utilizing standard Loose Tube LT, Dry Loose Tube DLT or Armoured cable. Selection of interface between 900μm or 2mm tails allows to tailor assemblies exactly to specified environment allowing connection both to passive racks or directly to active equipment.

1. Quintis Prime
   - Assembly design for Loose Tube cables
   - High Fibre Counts Up to 144 fibres
   - 2mm or 900μm tails selection
   - Secure FLP Breakout Modules - High pulling tension resistant 1000N
   - MTP or discrete connector selection
   - Single or dual stage Breakout
   - Zero U solution

2. Assembly Installed inside patch panel
   - 900μm tails applied

3. Assembly Connected to the front of patch panel
   - 2mm tails applied
Field Deployable Solutions

Redeployable optical cable assembly is supplied on a portable drum for temporary installation in the field. For extra harsh environment protection tactical cable can be specified. Assembly is designed to endure multiple rewinding and redeployment - ideal for broadcast applications.

1. Portable Transmission Unit
2. Multifibre Redeployable Cable Assembly
   - Standard LT PE cable applied
   - Tactical PU cable option available
   - Re-usable pulling system
   - Very high crush resistance protection tubing
   - 2mm or 900μm tails option available
3. Remote Device

Tactical cable option available
- PU jacket cable
- Very high crushing resistance
- Improved flexibility
- Low weight
### Step by step guide to the right choice

**Questions to ask when considering the right solution**

- Where will the assembly be installed?  
- Where will the assembly be connected? (Choose 900µm or 2mm tails)  
- How long is the assembly (Choose the most cost effective design)  
- How is the assembly due to be installed? (Do you need a pulling system?)  
- Need fast and easy installation?  
- Do you need a low insertion loss product?  
- Do you need to customise your product?  
- Do you need complementary products?  

<table>
<thead>
<tr>
<th>Breakout Module</th>
<th>Tails</th>
<th>Connector Termination</th>
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<tr>
<td><strong>Type</strong></td>
<td><strong>Con. length</strong></td>
<td><strong>Termination types</strong></td>
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<tr>
<td>Pulling Element</td>
<td>FL Pulling System</td>
<td>FL Prime Pulling System</td>
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<tr>
<td>Protection Tube</td>
<td>Tail configuration options</td>
<td></td>
</tr>
<tr>
<td>Tails</td>
<td>Staggered</td>
<td>Fan Out</td>
</tr>
</tbody>
</table>
| Gland | Element providing an attachment point for assembly inside patch panels, wall boxes or ODF. This size is applicable for 20mm or 25mm openings.  
| Fibre & Cable Type | Fibre type: |  
| | SM, LGX (all), LC, SC, FC, E2000, MTP®, MU, MTRJ, SC, ST, LC, E2000, MTP®, MU, MTRJ, SC, ST, LC  
| Breakout Module | Tube multi tail assemblies the breakout is the element providing secure transition between cable and tails. Cable as well as function tubing are securely attached to the breakout module. 250µm fibres are securely routed from cable into the tails. Pulling force is applied to the cable strength member. Quintis Prime breakout module superstructure is made of 1000N pulling tension.  
| Tails | Tail length is differentiated. Assemblies equipped with pulling system have different length tails. For 900µm tails feature staggered tails while tails feature equal length (typically 1m).  
| Connector Termination |  
| | For 2mm tails + Ruggedised  
| | For 3mm tails + Only for 2mm tails  
| |  
| 1. Tail configuration options |  
| |  
| | Staggered | Tails length is differentiated. Assemblies equipped with pulling system have different length tails. For 900µm tails feature staggered tails while tails feature equal length (typically 1m).  
| | Equal | Tail lengths are equal (typically 1m).  
| 2. Tail size options |  
| | FL Pulling System | FL Prime Pulling System |
| 1. Tail configuration options |  
| | Pulling Element | Element attached directly or indirectly to the cable strength member. During installation apply pulling force to the pulling element only.  
| | Protection Tube | Protectors tails during transport and installation (requires staggered tails).  
| 2. Tail size options |  
| | FL Pulling System | FL Prime Pulling System |

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**Quintis**

- **Micro Cable**  
  - Small size - high density  
  - Short internal links  
  - Extra crush resistance  
  - Ø2mm supported sub unit  
  - For SM termination choose between UPC and APC grade of end face geometry.  
  - Ideal for direct installation to active equipment / front of patch panels  

- **Nano Cable**  
  - Cable type: Micro  
  - Tail options: FL Pulling System, FL Prime Pulling System  
  - Con. length options: Fan Out, Staggered  
  - Termination types: micro, mini, maxi, mega  
  - Cores: LC, SC, ST, FC, E2000, MTRJ, MTP®, MU, MTRJ, SC, ST, FC  

- **Loose Tube**  
  - Cable type: Tight Buffer  
  - Tail options: FL Pulling System, FL Prime Pulling System  
  - Con. length options: Loosing Tube, 2mm Tube, Armoured  
  - Termination types: micro, mini, maxi, mega  
  - Cores: LC, SC, ST, FC, E2000, MTRJ, MTP®, MU, MTRJ, SC, ST, FC  

- **Tight Buffer**  
  - Cable type: Short Internal links  
  - Tail options: FL Pulling System, FL Prime Pulling System  
  - Con. length options: Tight Buffer, Short Internal links  
  - Termination types: micro, mini, maxi, mega  
  - Cores: LC, SC, ST, FC, E2000, MTRJ, MTP®, MU, MTRJ, SC, ST, FC  

- **Universal**  
  - Cable type: Long Internal links, 2m exterior links, 2mm exterior links, General purpose  
  - Tail options: FL Pulling System, FL Prime Pulling System  
  - Con. length options: Universal Tube  
  - Termination types: micro, mini, maxi, mega  
  - Cores: LC, SC, ST, FC, E2000, MTRJ, MTP®, MU, MTRJ, SC, ST, FC  

- **Redeployable Assemblies**  
  - Plug & Play Modular Cassette System  
  - Pull & Play Quick Panel System  

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**Questions to ask when considering the right solution**

- Where will the assembly be installed?  
- Where will the assembly be connected? (Choose 900µm or 2mm tails)  
- How long is the assembly (Choose the most cost effective design)  
- How is the assembly due to be installed? (Do you need a pulling system?)  
- Need fast and easy installation?  
- Do you need a low insertion loss product?  
- Do you need to customise your product?  
- Do you need complementary products?  

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**Step by step guide to the right choice**

1. **Where will the assembly be installed?**
2. **Where will the assembly be connected? (Choose 900µm or 2mm tails)**
3. **How long is the assembly? (Choose the most cost effective design)**
4. **How is the assembly due to be installed? (Do you need a pulling system?)**
5. **Do you need fast and easy installation?**
6. **Do you need a low insertion loss product?**
7. **Do you need to customise your product?**
8. **Do you need complementary products?**
Where will the assembly be installed?

Internal applications
- LSZH Jacket (LT) Cable
- FirstLight Micro LSZH
- FirstLight Nano LSZH
- Quintis Prime LSZH
- Full Breakout LSZH
- Quick Panel System
- Modular Cassette System

Universal applications
- LSZH Jacket (LT) Cable
- Quintis Prime Universal LSZH

External applications
- PE Jacket (LT) Cable
- Quintis Prime External PE
- Quintis Prime with LT PE Cable
- Quintis Prime with Armoured LT Cable

Find your balance between cable and termination labour cost is very important. Some cable assembly designs feature lower labour cost but at the same time cable cost are higher. Some designs feature higher labour consumption but the cable cost is more competitive. It is important to find the optimum solution and select the most cost effective product for the right application.

Where will the assembly be connected? (Choose 900µm or 2mm tails)

- Connected inside Patch Panels, ODF, Wall Boxes
- Directly connected to active equipment or to the front of the panels

Assembly Type Price Comparison

- Example is based on fibre type OS1/2 with a fibre count of 24

Assembly Type Price Comparison

- Price
- Length (m)
- Full Breakout
- Tight Buffer
- Loose Tube Micro Cable Nano Cable

Assembly Cost Guide

<table>
<thead>
<tr>
<th>Assembly type</th>
<th>Cable applied</th>
<th>Labour costs</th>
<th>Cable costs</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quintis</td>
<td>Tight Buffer</td>
<td></td>
<td></td>
<td>Cost effective for short lengths</td>
</tr>
<tr>
<td>Full Breakout</td>
<td>Breakout</td>
<td></td>
<td></td>
<td>Cost effective for very short lengths</td>
</tr>
<tr>
<td>Quintis Prime</td>
<td>Loose Tube</td>
<td></td>
<td></td>
<td>Cost effective for long lengths</td>
</tr>
<tr>
<td>Quintis Nano</td>
<td>Nano Cable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Key
- Higher price range
- Medium price range
- Lower price range
How is the assembly due to be installed? (Do you need a pulling system?)

If the assembly is installed inside closed ducting - protection of tails and pulling system may need to be applied. Please consider installation method selecting target design. Some multibre assembly features the pulling system applied as a standard whereas for some designs it will be optional.

Need fast and easy installation?

For increased speed of installation choose ready plug and play system consisting of pre-populated panels and ready made trunks.

1. LGX MTP® System
2. Quick Panel System
3. Quintis HD System
4. Trunk MTP® to MTP®
5. MTP® Ruggedised Fanout
6. Direct Connection to front of panel / active equipment
7. MTP® Pigtail
8. Splice Panel
Limited Power Budget?

Do you need Low Insertion Loss Product?

Why high quality termination matters

In high end data centre application quality of connectors matters! Power budget in high performance networks like 8/10Gbps Fibre Channel or 10Gbps Ethernet must be carefully controlled. In a 300mtr OM3 channel total connection losses must be lower than 1.5dB! High quality, low loss connectors are the only choice for high end applications.

Upgrade class of termination

Many contemporary high speed fibre optic data or telecommunication networks require strict control of power budget. It is important to ensure the optical power insertion loss of a link is low.

Quintis offers different grades of terminations. For performance crucial application (for Data Centres or Telecom market) upgrade to premium classes of terminations to achieve reduced Insertion Losses and improved performance.

Discrete connector UPC and APC - Singlemode

<table>
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<th>Optical Performance</th>
<th>High Performance</th>
<th>Telecom Premium</th>
<th>Standard</th>
<th>Conformance</th>
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</thead>
<tbody>
<tr>
<td>IL MAX/Master (Acceptance)</td>
<td>0.10 dB</td>
<td>0.15 dB</td>
<td>0.30 dB</td>
<td>IEC 61300-3-4</td>
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<tr>
<td>IL MAX/Random</td>
<td>0.20 dB</td>
<td>0.30 dB</td>
<td>0.40 dB</td>
<td>IEC 61300-3-34</td>
</tr>
<tr>
<td>Ave/Master</td>
<td>0.08 dB</td>
<td>0.12 dB</td>
<td>0.18 dB</td>
<td>IEC 61300-3-4</td>
</tr>
<tr>
<td>Ave/Random</td>
<td>0.08 dB</td>
<td>0.12 dB</td>
<td>0.18 dB</td>
<td>IEC 61300-3-34</td>
</tr>
<tr>
<td>Return Loss</td>
<td>5/70 dB</td>
<td>5/65 dB</td>
<td>5/65 dB</td>
<td>IEC 61300-3-6</td>
</tr>
</tbody>
</table>

Discrete connector - Multimode

<table>
<thead>
<tr>
<th>Optical Performance</th>
<th>Data Centre Premium</th>
<th>Standard</th>
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<td>0.20 dB</td>
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</tr>
</tbody>
</table>

Mini LC Patch Cords

Our mini-LC patch cords are designed to provide flexible interconnection between specialist high density equipment and patch panels, particularly for use in Storage Area Networks (SAN).

They are designed to fit mSFP LC transceivers and have a pitch of 5.25mm instead of 6.25mm, allowing up to 64 channels in a 1U blade.

Compatible with

- Brocade: FC8-64 blades used in DCX and DCX 8150 family SAN Backbones
- IBM: FC#3864 blades used in SAN768B and SAN384B Backbones
- HP: 64-port 8Gb Fibre Channel Blades used in SN8000B SAN Director

LC Uniboot Connector

For high density application LC Uniboot allows to reduce amount of tails and reduce tails congestion in high density patching racks.

Our uniboot fibre patch cord reduces cable management space by 50% compared to standard patch cords. The patch cord utilises a special “round duplex” cable that allows duplex transmission within a single 3mm cable. As a result of these unique features our uniboot patch cord offers improved airflow and visibility of equipment within a high density network environment.

LC Connectors for Specialist Applications
Product Customisation

**Non Standard Boot**
Non standard boots (angled or short types) may improve fibre management in the front of the panel. Customisation of boots may need to be coordinated with correct fibre type choice in order to correctly control loss management (G.657A or RBS MM).

**Gland**
Cable gland can be removed or extra added to the design. Gland elements differ for different assembly designs.

**Pulling Systems**
Depending on installation conditions pulling systems may be required. Some designs feature the pulling system applied as standard, for some cable assemblies this feature may be available on special request only.

**Fibre Upgrade**
For unusual applications, cable can be manufactured using special types of fibres – including Reduced Bend Sensitive types of SM fibres (G.657A1 & G.657A2) and Reduced Bend Sensitivity (RBS) MM fibres are available on special request.

**Customised cable**
Quintis is able to apply customised cable design and manufacture cable specifically to address application requirements. Cable structure, strength members and jacketing material can be customised.

**Customised Tails**
Assemblies can be customised to be adjusted to the environment where they are connected, such as patch panel or active equipment ports.

**Customised Labelling**
Customized labels indicating installation location or customized customers serial numbers can be applied.
Complementary Products: Patch Cords

Singlemode Patch Cords
Singlemode patch cords are used for Telecom networks and also used for high speed metropolitan and access network. Our singlemode patch cords are manufactured using LSZH cables which conform to IEC, EIA TIA and Telcordia standards. QS1052 patch cords are terminated with our standard connector which gives optimum optical performance.

Telecom Patch Cords
Telecom patch cords are designed for low loss telecommunication applications. Our patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects. They are terminated with premium grade zirconia ferrule connectors which help assure high transmission quality and low optical power loss.

Multimode Patch Cords
Multimode patch cords are used to connect high speed and legacy networks like Gigabit Ethernet, Fast Ethernet and Ethernet. Our multimode patch cords are manufactured using LSZH cables which conform to IEC, EIA TIA and Telcordia standards. OM1, 2, 3 & 4 patch cords are terminated with our standard connector which gives optimum optical performance.

Data Centre Patch Cords
Our data centre patch cords are designed for low loss data centre applications. They provide flexible interconnection to active equipment, passive optical devices and cross-connects. Our patch cords are terminated with premium grade zirconia ferrule connectors which help assure high transmission quality and low optical power loss.

Complementary Products: Patch Panels

The Quintis sliding patch panel system in its basic form is supplied with the panels unloaded without adaptors ready for you to install the adaptor of your choice. The panel can also be pre-loaded complete with the required adaptor and simple splice management kit, or pre-loaded with pigtailed to meet your project needs. The tray is locked in place with two simple to operate plastic latches, when fully extended the tray is designed to lower to 45°, or move the tray to the side and it will lock to lower only 10°. This provides the perfect working platform for simple installation or easy maintenance and access even after the panel is installed in the rack.

Features
- Recessed panel option
- Recessed adaptors provide improved fibre management
- No exposed screws
- Screen printed for easy labelling
- 45° working angle
- Rear cable entry options
- Panel numbers and rack number identification labels
- High quality finish, no sharp edges

Example: QS03 LCS 24 will configure a black sliding patch panel with 24 LC Duplex Singlemode Adaptors

QS03 / QS04
24 Position SC/LC/E2000 up to 48 fibres
### Our Range explained

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<th>Full Breakout</th>
<th>Quintis Prime</th>
<th>Quintis Micro</th>
<th>Quintis Nano</th>
<th>Plug &amp; play QPSK panel system</th>
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<tr>
<td>part nr</td>
<td>PRE 12LC OM3 TB 40</td>
<td>PRE 12LC OM3 BO 40</td>
<td>PRE 12LC OM3 LT 40</td>
<td>PRE 12LC OM3 LTP 40</td>
<td>PRE 12LC OM3 STAPE 40</td>
<td>PRE 12LC OM3 MC 40</td>
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<td></td>
<td>SL LC MM OM3 12 x 2</td>
<td>MTPF MTPF OM3 12 40 C AQ x 1</td>
<td>SL LC MM OM3 12 x 2</td>
<td>MTPF MTPF OM3 12 40 C AQ x 1</td>
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<tr>
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<th>Full Breakout</th>
<th>Loose Tube</th>
<th>Loose Tube</th>
<th>Loose Tube</th>
<th>STA</th>
<th>Micro Cable</th>
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<th>Nano Cable</th>
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<tr>
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<th>900μm</th>
<th>2mm</th>
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<th>No</th>
<th>Yes PG13.5 (core counts &gt;24)</th>
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<th>M2S5 (core counts &gt;12)</th>
<th>No</th>
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<th>No</th>
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<table>
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<tr>
<th>Pulling system</th>
<th>Standard over 20m</th>
<th>No Special request only, Stagger tails required</th>
<th>Standard over 20m</th>
<th>Standard over 20m</th>
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<table>
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<th>Protection tubing</th>
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<th>Yes</th>
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<th>Yes</th>
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<td></td>
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</tbody>
</table>
Multifibre Quintis (TB) Cable Assemblies

The Quintis factory made, quality controlled, fibre optic assembly can be built using distribution tight buffer cable for short internal optical links. The 900µm presentation lends itself to installation within a patch panel, wall box or Optical Distribution Frame (ODF). Crush resistant protective tubing assures secure transportation and installation. The high strength pulling element allows fast, safe and effective pulling.

The overall assembly and packing are light and compact, reducing transport cost and storage space. Installation waste is also reduced. A unique Quintis link loss certificate accompanies all Quintis multifibre assemblies.

Product configurator

Terminated Fibre Count

<table>
<thead>
<tr>
<th>Connector A (Pulling Eye)</th>
<th>Connector B (Apply if End A ≠ B)</th>
<th>Fibre Type</th>
<th>Cable Construction</th>
<th>Length (M)</th>
<th>Jacket Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>SC-SC</td>
<td>OS1/OS2</td>
<td>Tight Buffered TB</td>
<td>09</td>
<td>LSZH</td>
</tr>
<tr>
<td>04</td>
<td>SC/APC-SCA</td>
<td>CM1</td>
<td>LSZH</td>
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<td>Leave Blank</td>
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<tr>
<td>06</td>
<td>LC-LC</td>
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<tr>
<td>08</td>
<td>LC/APC-LCA</td>
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<td>12</td>
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<td>CM4</td>
<td>LSZH</td>
<td>40</td>
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</tr>
<tr>
<td>16</td>
<td>FC/APC-FC</td>
<td>G.657/A1</td>
<td>LSZH</td>
<td>80</td>
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<td>24</td>
<td>ST-ST</td>
<td>G.657/A1</td>
<td>LSZH</td>
<td>120</td>
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<tr>
<td>E2000</td>
<td>E2/E2</td>
<td>A1</td>
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<td>240</td>
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<tr>
<td>E2000/APC</td>
<td>E2A/E2A</td>
<td>RI</td>
<td>LSZH</td>
<td>360</td>
<td>LSZH</td>
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</table>
Multifibre Full Breakout Cable Assemblies

Quintis multicore full breakout cable assemblies are ideal for short cable runs where a direct connection to equipment or panels is required. The 2mm patch lead style cable sub units are ruggedized, to protect the optical fibre in the demanding environments outside the patch panel or ODF. The network topology can be reduced and simplified by direct connection; bypassing wall boxes, ODFs or fibre patch panels, The end result is greatly improved fibre management.

Benefits
- Rapid Deployment- factory terminated cabling saves installation and reconfiguration time eliminating field termination variables
- High Performance and Reliability- 100% tested- combination of high quality components and manufacturing quality control guarantees product to the highest standards

Example Part Number:
PRE4LCFC09BO20
Conforms a 4 core OS1/OS2 LC to FC full breakout multi fibre cable assembly LSZH, 20 metres, yellow.
Quintis Micro Cable Assembly

Quintis Micro cable assembly perfectly complements traditional distribution product offerings. It offers a smaller, more flexible and compact product providing an improved optical performance of microcable structure. The 2mm patch lead style tails are ruggedised, to protect the optical fibre in the demanding environments outside the patch panel or ODF. 900μm tails are ideal for installation inside fibre management equipment.

Product configurator

Example Part Number: PRE24LCOM3MC20 configures a 20 metre, 24 core OM3 LC to LC Micro Cable multiibre cable assembly with a LSZH jacket 2mm tails aqua.
The Quintis Nano Cable assembly features the small, compact size of Nano Cable providing a flexible though ruggedized product with the improved optical performance of Nano Cable structure. The 2mm patch lead style tails are ruggedized to secure the optical fibre in the non-protected environments outside the patch panel or Optical Distribution Frames (ODFs). 900μm tails are ideal for installation inside fibre management equipment.

**Product configurator**

<table>
<thead>
<tr>
<th>Connector END A</th>
<th>Connector END B</th>
<th>Fibre Type</th>
<th>Cable Construction</th>
<th>Cable length (Mtr)</th>
<th>Jacket Type</th>
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<tr>
<td>LC</td>
<td>LC</td>
<td>OM1</td>
<td>NCR</td>
<td>850 ±50</td>
<td>LSZH</td>
</tr>
<tr>
<td>LC/APC</td>
<td>LCA</td>
<td>OM2</td>
<td>NCR</td>
<td>850 ±50</td>
<td>LSZH</td>
</tr>
<tr>
<td>SC</td>
<td>SC</td>
<td>OM3</td>
<td>NCR</td>
<td>300 ±50</td>
<td>OFNP</td>
</tr>
<tr>
<td>SC/SCAPC</td>
<td>SCA</td>
<td>OM4</td>
<td>OM3</td>
<td>50</td>
<td>PL</td>
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<tr>
<td>ST</td>
<td>ST</td>
<td>OM1</td>
<td>G.657/A1</td>
<td>850 ±50</td>
<td></td>
</tr>
<tr>
<td>FC</td>
<td>FC</td>
<td>OM2</td>
<td>A1</td>
<td>850 ±50</td>
<td></td>
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<tr>
<td>FC/SCAPC</td>
<td>FCA</td>
<td>OM3</td>
<td>NCR</td>
<td>300 ±50</td>
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<tr>
<td>E2000</td>
<td>E2</td>
<td>OM4</td>
<td>OM3</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>E2000/SCAPC</td>
<td>E2A</td>
<td>Open</td>
<td>NCR</td>
<td>Open</td>
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Example Part Number: PRE 24 LC OM3 NCR 20

PRE24LCOM3NCR20 configures a 20 metre, 24 core OM3 LC to LC multiFibre nano cable assembly with a LSZH jacket, 2mm tails, Aqua.
The M-H Quintis Prime is the range of premium optical cable assemblies, utilising the patented Quintis Prime transition module. The design can offer assemblies from 4 to 144 cores fibre cables and guarantee superior tensile strength and crush resistance (true 1000 Newton pulling strength). This technology platform is the ideal choice for long trunks requiring improved physical properties or high core count trunk assemblies. These cables can be assembled with both MTP® and discrete connectors and can also be used as trunk or ruggedised MTP® Fan Outs in data centres, providing cabinet to cabinet connections without the need of fibre jumpers. Innovative dry loose tube cable construction offers superior physical and optical performance.

**Example Part Number:**

- **PRE**:
  - **Fibre Count**:
    - 2
    - 4
    - 6
    - 8
    - 12
    - 16
    - 24
    - 48
    - E2000
  - **Connector END A**:
    - LC
    - LC/APC
    - SC
    - SC/PC
    - E2000
    - MTP-Male
    - MTP-Female
  - **Connector END B** (for breakout connector):
    - LC
    - SC
    - SC/PC
    - E2000
    - MTP-Male
    - MTP-Female
  - **Connector END C** (for breakout connector):
    - LC
    - SC
    - SC/PC
    - E2000
    - MTP-Male
    - MTP-Female
  - **Fibre Type**:
    - OM1
    - OM2
    - OM2-OM3
    - OM4
    - OM4-OM5
    - G.657/A1
    - OS1/OS2
  - **Cable Construction**:
    - Loose Tube Cable
    - Breakout Module
    - 3mm Furcation Tubing
    - Connector End 1
    - Connector End 2
    - Channel Identification Marker (C-Clip)
  - **Cable length** (in m):
    - 20
  - **Jacket Type**:
    - LSZH
    - PE
    - FTTH
    - OFNP
    - PL*
**Quick Panel Plug and Play System (Only 11.7cm deep!)**

M-H MTP® UltraSlim Panels provide secure transitions between MTP® and LC or SC discrete connector interfaces. They are used to interface MTP® backbones with LC or SC patching and active equipment connections. The pre-populated panel allows rapid deployment of high density data centre infrastructure as well as improved trouble shooting and reconfiguration during moves, adds and changes. The shallow depth of the UltraSlim Panel makes it suitable for shallow copper racking systems. The MTP® UltraSlim Panels contain factory controlled and tested MTP®, LC/SC fanouts to deliver optical performance and reliability.

Low loss MTP® Elite® and LC/SC Premium versions are offered featuring significantly improved low insertion losses for demanding low power budget, high speed networks.

### Application

- **Panel to Panel**
- **Panel to Terminated Tails**
- **Panel to Open End (Optional)**

**Example Part Number:**

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Fibre Type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC/SC (only)</td>
<td>OS1/2 G652D</td>
<td>12/60</td>
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<tr>
<td>LC/SC Duplex</td>
<td>OM1</td>
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<tr>
<td>LC/SC Quad</td>
<td>OM2</td>
<td>36/84</td>
</tr>
<tr>
<td>LC/SC SCA</td>
<td>OM3 OM4</td>
<td>48/96</td>
</tr>
</tbody>
</table>

Example Part Number: US LC D MM OM4 24

(MH.COM/MB.M4) has created an MTP® UltraSlim Panel with 24 OM4 fibres and an LC (24) front interface (12 fibre MTP® ferrule applied.)
Plug and Play Modular System - LGX

Rapid Deployment
A factory terminated optical fibre cabling solution is a simple, yet scalable, reliable method of network deployment. Installation time compared to traditional fibre cabling systems can be reduced by up to 75%. Simply pull, plug and complete installation on time, eliminating all unpredictable field termination variables.

Scalability
The ever increasing demand for higher bandwidth rates requires more complex networks. A modular system is the choice to ease future expansion and for quick and easy system reconfiguration.

Example Part Number: MTPM 24 LC OM4 CASS
MTPM male rear and LC front interface, polarity method A or C.

**Table:**

<table>
<thead>
<tr>
<th>MTP® Connector</th>
<th>Fibre Count</th>
<th>Discrete Connector</th>
<th>Fibre type</th>
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</thead>
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<td>MTP® Male (standard)</td>
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<td>LC, LC</td>
<td>OS1/2, 69</td>
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<tr>
<td>MTP® Male Elite</td>
<td>24, 24</td>
<td>SC, SC</td>
<td>OM1, 62</td>
</tr>
</tbody>
</table>

**Polarity:** B1, B2

MTP® Connector Fibre Count Discrete Connector Fibre type Polarity

MTPM 24 LC OM4 CASS configuring a 24 fibre OM4 cassette with MTP® male rear and LC front interface, polarity method A or C.

Application

P/No. LGXCHASSIS

P/No. S13XX000

www.mh-fiberoptics.com
Plug and Play Modular System - Quintis High Density

At the centre of the Quintis Prime High Density family are a range of connectivity modules that can be used wherever patching is required. The modules are carried in 1U and 2U rack mounted chassis with extended cable management options to allow practical densities up to 288 LC ports per 2 rack unit (2U). Connection of modules is made with MTP® Brand MPO connector multi-fibre trunks, MTP® to conventional connector multi-fibre cables or a broad range of conventional connector multifibre pre-terminated cable assemblies.

A unique feature of the FirstLight Prime High Density family is the ability to deliver factory made module ended cables with modules at one or both ends for quickest possible installation and lowest possible link attenuation. Cable end modules can be used interchangeably with MTP® connected modules to configure an optimised solution.
Plug and Play MTP® Trunk Assembly

Quintis MTP® trunk multicore cable assemblies facilitate rapid deployment of high density backbone cabling in data centres and other high fibre environments reducing network installation or reconfiguration time and cost. They are used to interconnect cassettes, panels or ruggedised MTP® Fan Outs, spanning MDA, HDA and EDA zones.

MTP® trunk assemblies are offered in most fibre types as standard 12 to 144 core versions using a compact and rugged microcable structure. The compact cables optimise cable-way use and improve airflow.

Quintis MTP® trunks are built with highest quality components. Standard MTP® as well low loss Elite versions are offered featuring low insertion loss for demanding high speed networks where power budgets are critical.

Benefits
- **MTP® Interface** - MTP® US Conec brand components feature superior optical and mechanical properties
- **Optimised Performance** - low loss MTP® Elite, discrete Premium connectors and OM4 fibre assures low insertion losses and power penalties in tight power budget high speed network environment
- **High Density** - multifibre connector and compact dimension of ruggedised Microcable ease space in costly data centre environments

- Rapid Deployment - factory terminated modular system saves installation and reconfiguration time during moves, adds and changes
- Reliability - 100% tested- combination of high quality components and manufacturing quality control guarantees product to the highest standards
- Next Generation Network Proof - emerging high speed protocols are going to use MTP® interface- your cabling infrastructure remains unchanged

Features
- **OS1/2, OM3, OM4 Fibre Grades (OM1 and OM2 available)**
- **Up to 144 Fibre Microcable Trunks**
- **LSZH, OFNP, OFNR Cable Jacket**
- **Female (standard) and Male MTP® connectors**
- **Polarity A (standard), B or C**
- **Factory terminated and tested**

Application
- Data Centre Infrastructure
- Storage Area Network- Fibre Channel
- Parallel Optics
- Infiniband
- Emerging 40 and 100Gbps Protocols

Standards Compliance
TIA/EIA-568-C.3 and ISO/IEC 11801
IEC-61754-7 & EIA/TIA-604-5
NFPA 262 (OFNP) or IEC 60332 (LSZH)
TIA/EIA 568-B.1-7
Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

Part nr. generator

<table>
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<tr>
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<th>Gender A</th>
<th>Connector End B*</th>
<th>Gender B</th>
<th>Cable Type</th>
<th>Fibre Count</th>
<th>Cable length (m)</th>
<th>Polarity</th>
<th>Colour</th>
<th>Jacket Type</th>
</tr>
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<tbody>
<tr>
<td>MTP® Female</td>
<td>Female F</td>
<td>Standard MTPF</td>
<td>Female F</td>
<td>OS1/2</td>
<td>09</td>
<td>0</td>
<td>A</td>
<td>Aqua</td>
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</tr>
</tbody>
</table>

Example Part Number
- **MTP® Female to MTP® Female, OM3, LSZH trunk assembly with polarity method A and an Aqua jacket.**
Plug and Play MTP® Fan Out Assembly

M-H MTP® ruggedised Fan Out assemblies route multifibre MTP® connection into discrete connectors. They are used to directly interconnect MTP® cassettes, panels or backbone MTP® assemblies with the active equipment, saving costly data centre rack space and easing fibre management. MTP® Fan Out assemblies are offered in most fibre types as standard 12 to 144 core versions using a compact and rugged microcore structure. The compact cables optimise cable-way use and improve airflow.

M-H MTP® Fan Out are built with highest quality components. Standard MTP® as well as low loss Elite versions are offered featuring low insertion loss for demanding high speed networks where power budgets are critical.

Benefits
- MTP® Interface - MTP® US Conec brand components feature superior optical and mechanical properties.
- Optimised Performance - low loss MTP® Elite, discrete Premium connectors and OM4 fibre assure low insertion losses and power penalties in tight power budget high speed network environment.
- High Density - ruggedised Fan Out allows for direct connection between backbone and active equipment eliminating rack space usage
- Rapid Deployment - factory terminated modular system saves installation and reconfiguration time during moves, adds and changes.
- Reliability - 100% tested- combination of high quality components and manufacturing quality control guarantees product to the highest standards.

Features
- OS1/2, OM3, OM4 Fibre Versions (OM1 and OM2 available)
- Up to 144 Fibre Microcable Trunk Assemblies

Standards Compliance
- TIA/EIA-568-C.3 and ISO/IEC 11801
- IEC-61754-7 & EIA/TIA-604-5
- NFPA 262 (OFNP) or IEC 60332 (LSZH)
- TIA/EIA 568-B.1-7

Application
- Data Centre Infrastructure
- Storage Area Network
- Fibre Channel

Example Part Number:
MTPF12LCOM316DF16AQ
will configure a 16 metre, 12 core, MTP® female to LC OM3, LSZH ruggedised Fan Out with an Aqua jacket.

Part nr. generator
Plug and Play MTP® Ruggedised Pigtail

The M-H MTP® ruggedised pigtail enables rapid deployment of a high density backbone / horizontal cabling, this reduces installation time and cost. The small footprint of the MTP® interface simplifies and reduces the amount of front patch panel adaptor space compared to traditional discrete connectors. The ruggedised 5/3mm construction allows for longer pigtail lengths enabling splice management to be located outside the patch panel racks.

These MTP® pigtail assemblies feature colour coded fibres for easy splice identification. The MTP® interface is compatible with next generation networks and parallel optics protocols, making any network utilising this product future proof.

Benefits
- MTP® interface reduces front panel adaptor space
- Increased speed of installation
- Ruggedised pigtailed allow for splicing to be done remotely away from the equipment zone
- Next generation networks proof

Features
- Multifibre MTP® connector interface
- Fibres are colour coded as per IEC 60304 MTP® interface
- OS1/2, OM3, OM4 fibre grades (OM1 and OM2 available)
- Ruggedised 5/3mm Microcable pigtail construction with 250μm fibres in 3mm tube.
- Low smoke zero halogen LSZH, Plenum OFNP, Riser OFNR jacket
- Factory terminated and tested

Application
- Telecom and datacom application
- Patch panels, wall boxes, ODFs and splice cassettes
- Supports high speed multi channel video, data and voice services in metropolitan and access networks
- ATM, SONET and WDM, ETHERNET, FIBRE CHANNEL

Standards Compliance
TIA/EIA-568-C.3 and ISO/IEC 11801
IEC-61754-7 & EIA/TIA-604-5 IEC 60332
Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC
IEC-60793

Part nr. generator

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Example Part Number
MTPFOM31216AAQ will configure a 16 metre, 12 Core, MTP® female, OM3, LSZH, ruggedised pigtail with polarity method A and an Aqua jacket.
Plug and Play MTP® Ruggedised Pigtail

The Quintis MTP® Nano trunk assembly features the small, compact size of Nano Cable providing a flexible though ruggedized product with the improved optical performance of Nano Cable structure. M-H MTP® Nano trunk multicore cable assemblies facilitate rapid deployment of high density backbone cabling in data centres and other high fibre environments reducing network installation or reconfiguration time and cost. They are used to interconnect cassettes, panels or ruggedized MTP® fan-outs, spanning MDA, HDA and EDA zones. Quintis MTP® trunks are built with highest quality components. Standard MTP® as well low loss Elite versions are offered featuring low insertion loss for demanding high speed networks where power budgets are critical.

Benefits
- MTP® Interface- MTP® US Conec brand components feature superior optical and mechanical properties.
- Optimised Performance- low loss MTP® Elite, discreet Premium connectors and OM4 fibre assures low insertion losses and power penalties in tight power budget high speed network environment.
- High Density- multifibre connector and compact dimension of ruggedized Nano cable ease space in costly data centre environments.
- Rapid Deployment- factory terminated modular system saves installation and reconfiguration time during moves, ads and changes.
- Reliability- 100% tested- combination of high quality components and manufacturing quality control guarantees product to the highest standards.

Next Generation Network Proof-emerging high speed protocol are going to use MTP interface your cabling infrastructure remains unchanged.

Features
- OS1/2, OM3, OM4 fibre grades
- 12 or 24 fibres
- LSZH, OFNP cable jacket
- Female (standard) and Male MTP® connectors
- Polarity A (standard), B or C
- Factory terminated and tested

Application
- Data Centre Infrastructure
- Storage Area Network- Fibre Channel
- Parallel Optics
- Infiniband
- Emerging 40 and 100Gbps Protocols

Standards Compliance
TIA/EIA-568-C.3 and ISO/IEC 11801
IEC-61754-7 & ElA/TIA-604-5 IEC 60332
Compliant to Directive 2002/95/ EC (RoHS) and REACH SvHC
IEC-60793

Part nr. generator

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Example Part Number: PRE 24 MTPF MTPF OM3 NCR 20 A
PRE24MTPFMTPFOM3NCR20A refers to a 20 metre 24 core OM3 multifibre MTP® Nano Cable ruggedised assembly. MTP® female to MTP® female with LSZH jacket, colour Aqua, polarity A.