SMARTPATCH

**Brand-Rex** | a **LEVITON** company

Structured Cabling Systems

2016 - 2017

10GPLUS

U-MEDIAPLUS

CAT6PLUS

GIGAPLUS

HI-DEX

FIBREPLUS

BLOLITE

MicroBlo

## Our Business

Brand-Rex, a Leviton Group company, is a leading global supplier of structured cabling systems for data networks, as well as high performance cables for extreme environment applications.

Brand-Rex provides complete cabling systems that connect the IT equipment in offices and Data Centres – from patch cords and wall outlets seen in the office, to cable running under floors and above ceilings, to connectivity panels that interface with active equipment in the IT room. Within vast Data Centres, hosting huge amounts of business-critical information, Brand-Rex offers industry-leading, high-speed and high-density solutions.

## Our Company

Brand-Rex Limited was established in 1972, in Glenrothes, Scotland, where the company's head office remains today. In 2015, Brand-Rex became part of the Leviton Group, a privately owned US manufacturing company specialising in electrical wiring devices, energy management, security and automation, and data network solutions for industry and commerce.

The core technologies provided by Brand-Rex include copper-based cabling systems, fibre optic cabling systems (including a unique air-blown fibre system) and an Intelligent Infrastructure & Management Solution that delivers full visibility and management capability to end user clients.

Brand-Rex solutions are delivered to market through a network of high-calibre service and installation partners. The company uses distribution specialists and an army of trained, accredited installers who ensure that the correct system solutions are deployed and installed every time. The company also engages with end users and their consultants directly to ensure the best mutual understanding of needs and capabilities is achieved.

## Best in Class Manufacturing

Brand-Rex has long been known for its high quality manufacturing capabilities.

Having declared a commitment to maintaining cable production within the UK, Brand-Rex has invested £10 million in the creation of a new data cabling factory at the Glenrothes site enabling the company to compete on the global stage against manufacturers in lower cost countries. The investment program has resulted in a factory that can rival any in the world.

This manufacturing facility and the 'High Performance Cable' plant at Leigh, near Manchester, both hold ISO 9001:2008 quality certification and environment accreditation to ISO:14001:2004.



## Customer Service

Our mission is to be a market leader in Customer Service. As member of The Institute of Customer Service, we know the benchmark that we must surpass. We are implementing rigorous assessment and training within every area of our business to ensure that no matter what we do, Brand-Rex is determined to exceed your expectations.

## Technology Leader

With an experienced, dedicated and expert design and development team, Brand-Rex is a strong and capable force that continues to challenge industry conventions.

Through sophisticated modelling techniques and advanced test laboratories, Brand-Rex has been able to develop some of the most sophisticated cable and connectivity solutions available.

The New Product Development process that Brand-Rex deploys is a rigorous one. This process entails technology forecasting, customer clinics, competitor analysis, cross-functional teams and, of course, continued investment.

Brand-Rex's technical expertise is further evidenced through representation on standards committees, products that stand up to 3rd party scrutiny, a significant patents portfolio, industry-recognised training courses and professional engagement with the industry's leading consultants.

## Technical Service and Support

Brand-Rex has a dedicated and experienced technical support team that is led from head office and located throughout the world to support our global customers.

This team's purpose is to deliver training and technical support to installation partners and end users in the design, deployment and commissioning of their high-performance data networks.

The comprehensive training and accreditation of installers, combined with validation of installation test results, allows Brand-Rex to offer end users a 25-year product and lifetime application warranty that remains one of the best in the industry.

## Superior performance

Increased focus on online services, storage and instant accessibility of information have resulted in a dramatic increase in application size and data transfer rates. These applications are complex and require higher bandwidth, leading to the introduction of 10, 40 and 100G technology. Brand-Rex connectivity solutions have evolved to meet these requirements, including the adoption of plug and play solutions and low loss HI-DEX connectivity to ensure a seamless migration to higher speed Ethernet.

## Flexibility

Brand-Rex solutions are designed to support all elements of enterprise networks across an extensive range of work areas and unique requirements. It is critical that infrastructure design supports current and future applications.

## Faster installation

Whilst technologies continue to grow at an exponential rate, installation practices have been slower to evolve. Legacy often dictates that familiar products and processes offer reassurance; however the drive for more efficient and financially feasible solutions is changing that rationale. Delivering significant savings in time and money, pre-terminated copper and fibre solutions have become a viable and attractive option for maximising return on investment. Simplifying the 'Smart Design' premise and using premium quality 'factory tested' performance providing improved operational efficiency.

## Proven reliability

The focus on reliability, increased density and modularity during installation and throughout the life of the project is paramount. Superior and consistent performance is achieved using process capability to control the repeatability and consistency of the manufacturing process to ensure long-term reliability and optimal application performance. For additional peace of mind our systems are supported by our leading 25 year system warranty.

## Sustainability

Brand-Rex is dedicated to reducing its impact on the environment and offers sustainable solutions. As part of this commitment Brand-Rex achieved Carbon Neutral status for its Global organisational and operational activities in accordance to the PAS2060 and ISO14064 standards.

As a leading network infrastructure manufacturer we understand the environmental impact of our operations, that's why we are committed to reducing our impact on the environment by utilising sustainable energy sources and materials to manufacture sustainable solutions.

Brand-Rex was not only the first network infrastructure company to achieve carbon neutral status for its global operations, but also the first to introduce a range of Carbon Neutral products.

The production of cable consumes energy and creates emissions. Brand-Rex is passionate about manufacturing and the environment and is doing everything possible to reduce its impact on the environment and to offer customers sustainable solutions for the future.

Customer demand for more sustainable practises and solutions is also growing as the world begins to see it as a worthwhile policy to pursue. In turn many companies are recognising the clear environmental and financial benefits gained by adopting a sustainable approach.

Rising energy and materials costs are a threat to all businesses. Electricity is estimated to rise a further 37%* by 2020 and since 2009, fuel and gas has risen by 53%. There are clear financial benefits of implementing sustainable strategies, which all businesses should consider. Even more so with the growing support for carbon taxes and the introduction of mandatory carbon footprinting in countries such as the UK.

Achieving the PAS2060 standard and becoming Carbon Neutral allowed Brand-Rex to:

- Reduce greenhouse gas emissions and quantify our carbon footprint

- Identify and improve areas to make efficiencies and improve performance

- Generate sustainable cost savings by reducing energy consumption

- Meet international standards with an accurate carbon neutrality statement

- Meet our customers, stakeholder and legal expectations

Our full Corporate Social Responsibility (CSR) report can be downloaded from **www.brand-rex.com/csr**

**54%**

**Reduction in gas consumption at our datacom manufacturing site**

**Replaced oil heating with a cleaner & more energy-efficient gas**

**Reduction in water usage**

**89%**

**More water is used making drinks than by manufacturing**

**Light panel replacement program in factory**

**More natural light, less electricity**

**Energy Efficient Smart lighting sensors to control use based on light levels**

**CO$_2$e emissions from electricity reduced by**

$CO_2e$ $CO_2e$ $CO_2e$ $CO_2e$ $CO_2e$ **148 tonnes** $CO_2e$ $CO_2e$ $CO_2e$ $CO_2e$ $CO_2e$ $CO_2e$ $CO_2e$

**Recycled**

**79%**

**of waste**

Quality

Reliability

Innovation

Speed

Performance

Secure

Reliability

Quality

Performance

## Global Standardisation

**IEEE** — Develop new application standards for Ethernet technologies

**ISO / IEC** — Develop international standards for Structured Cabling, Cables, Components & Testing

**CENELEC** — Develop European standards for Structured Cabling, Cables & Testing

**europacable** — Represent European Cablemakers to lobby the EU and act as authority on technical issues

**TIA** — Develop US national standards for Structured Cabling, Cables, Components & Testing

**bsi** — Develop UK national standards for Structured Cabling

**FIA** — Promotes Fibre Optic industry worldwide
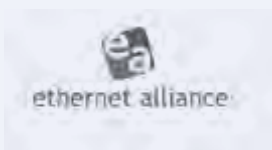
**ethernet alliance** — Advancement of Ethernet technologies

## Setting tomorrow's standards today

Brand-Rex works in partnership with a number of professional associations. These bodies shape the standards of data communication and cabling systems.

**Our participation with these global organisations allows us to influence:**

• Higher speed applications standards

• Structured wiring cabling performance levels

• Technology solutions for fibre optical transmissions

• Regulations affecting product performance, requirements and raw materials

Customers can be confident that our products and solutions comply with international standards and that we are influencing the future of emerging technologies.

Brand-Rex is active in development of new standards, participation in new technologies and liases with industry associations.
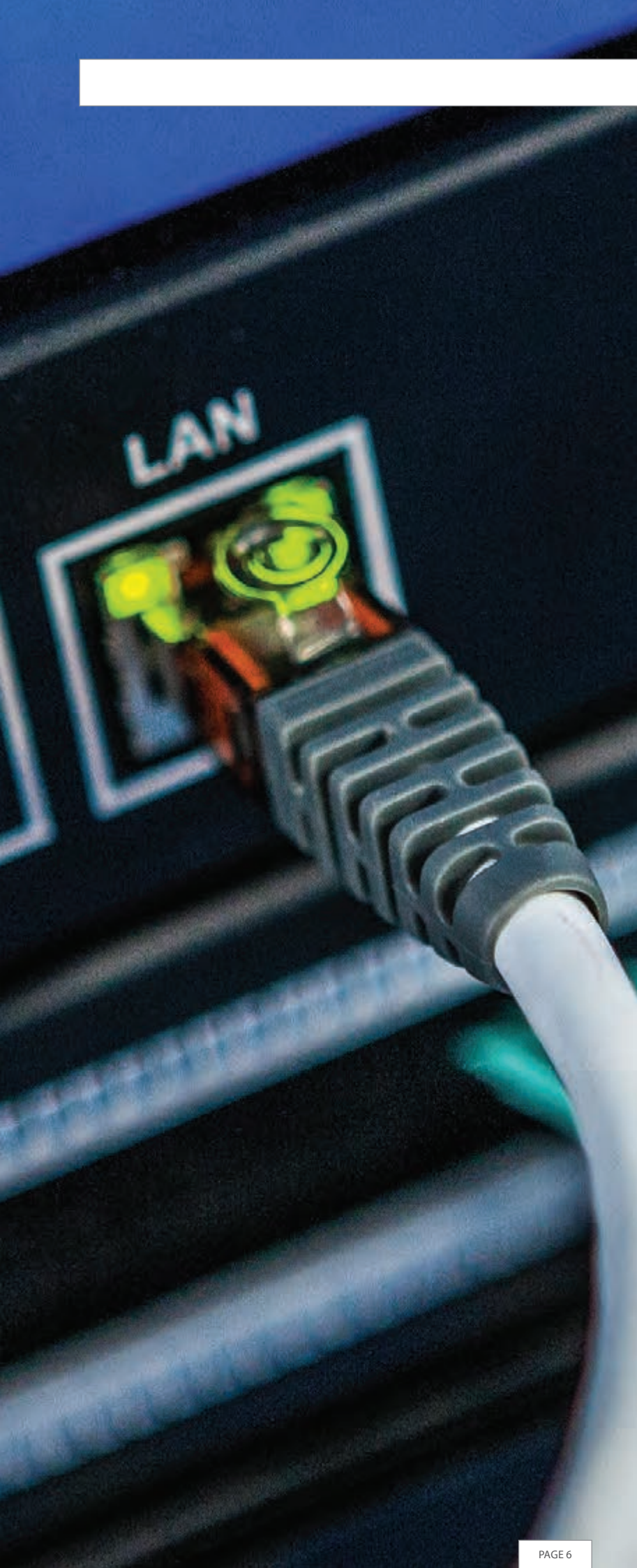
## The Brand Rex Product Range

### 10GPlus

An extensive range of premium Class $E_A$ performance level, shielded and unshielded, network infrastructure. Designed to transmit 10GBASE-T applications.

### Cat6Plus

A wide range of Class E performance structured cabling products to support Category 6 enterprise applications.

### GigaPlus

GigaPlus provides a secure, cost effective and flexible Class D cabling system solution for running today's LAN protocols and high speed applications such as 1000Base-T.

### U-MediaPlus

A range of universal media cables that exceed the Class F and Class $F_A$ requirements of ISO/IEC 11801 and EN 50173-1.

### FibrePlus

An extensive range of Optical Fibre cables and connectivity designed to support the varied and challenging requirement's of the educational facilities.

### Blolite

The Blolite system was one of the first Air Blown Fibre systems and the only single blowing fibre solution on the market. It is now regarded as the 'industry standard'.

### HI-DEX

An ultra high performance, pre-terminated, modular, Optical Fibre cabling system based on MT ferrule connector technology. Pre-terminated solutions are designed for quick installation as well as change and repair to support modular builds. Ideal for duplex fibre technology and ready for new parallel optics technologies

### SmartPatch

An industry leading intelligent infrastructure management system designed to monitor and manage physical network connections.

## High Performance Products

The High Performance Cabling business based in Leigh near Manchester, is a leading supplier of copper and optical cabling products for demanding environments. Brand-Rex has an extensive heritage as a bespoke cable manufacturer in high performance markets.

Our experience covers markets such as Aerospace, Automotive, Rail, Defence, Marine and Industrial. We pride ourselves in maintaining 'blue chip' customers across these areas.  Our materials and cabling capability are extensive. In our Leigh facility we use high performance thermoplastic, elastomer and thermo-polymer insulations and sheathing materials, conductors and other components such as metallic and textile braids and armours. Our processing capability covers extruding, taping and radiation cross-linking.

## 25 Year  Warranty

Brand-Rex understands the importance of supporting end customers, that is why we offer a full industry leading 25-year Systems warranty to installations completed by approved partners.

The comprehensive training and accreditation of installers, combined with validation of installation test results, allows Brand-Rex to offer end users a 25-year product and lifetime application warranty that remains one of the best in the industry.

## Third Party Verification

Brand-Rex solutions are designed by an, in-house team, to exceed industry standards. Brand-Rex uses independent 3rd party certification of its products as a further assurance for our customers that the products meet the international standards. Brand-Rex has been approving cables and components with test houses for over 20 years, building strong working relationships and mutual respect, these tests houses include:

3P, Hørsholm, Denmark, www.3ptest.dk
Delta, Hørsholm, Denmark, www.delta.dk
GHMT, Bexbach, Germany, www.ghmt.de

Whilst independent approval gives the end user greater confidence in the cable, component or cabling system they choose to install, the performance and quality is assured by Brand-Rex and its operations.

## Brand-Rex Website

The Brand-Rex website is a wealth of valuable information including:

- Technical product datasheets

- Literature

- Whitepapers

- Case studies

- Tools and calculators

- Video library

## Technical Datasheets

Comprehensive technical datasheets exist for each product in the Brand-Rex range. These can be found in the product section of the website and are updated regularly.

They contain:

- Product features

- Applicable standards

- Material identification

- Electrical parameters and
  performance

- Optical parameters and performance

- Print and packaging specifications

All product datasheets can be viewed at:
**www.brand-rex.com/datasheet**

## Business Partner Portal

This area contains tailored content not otherwise available to customers out with the Brand-Rex programme, including unique access to launch information/collateral, presentations, images, 3D models, brochures, datasheets, logos, web banners and more.

The portal provides partners with exclusive tools to help effectively promote Brand-Rex as well as provide the required support to evolve the relationship between Brand-Rex and its partners.

**Unique information includes:**

- Installation guides

- Warranty system

- Marketing campaign resources

- Third party certificates

- Product launch information

- Image/logo library
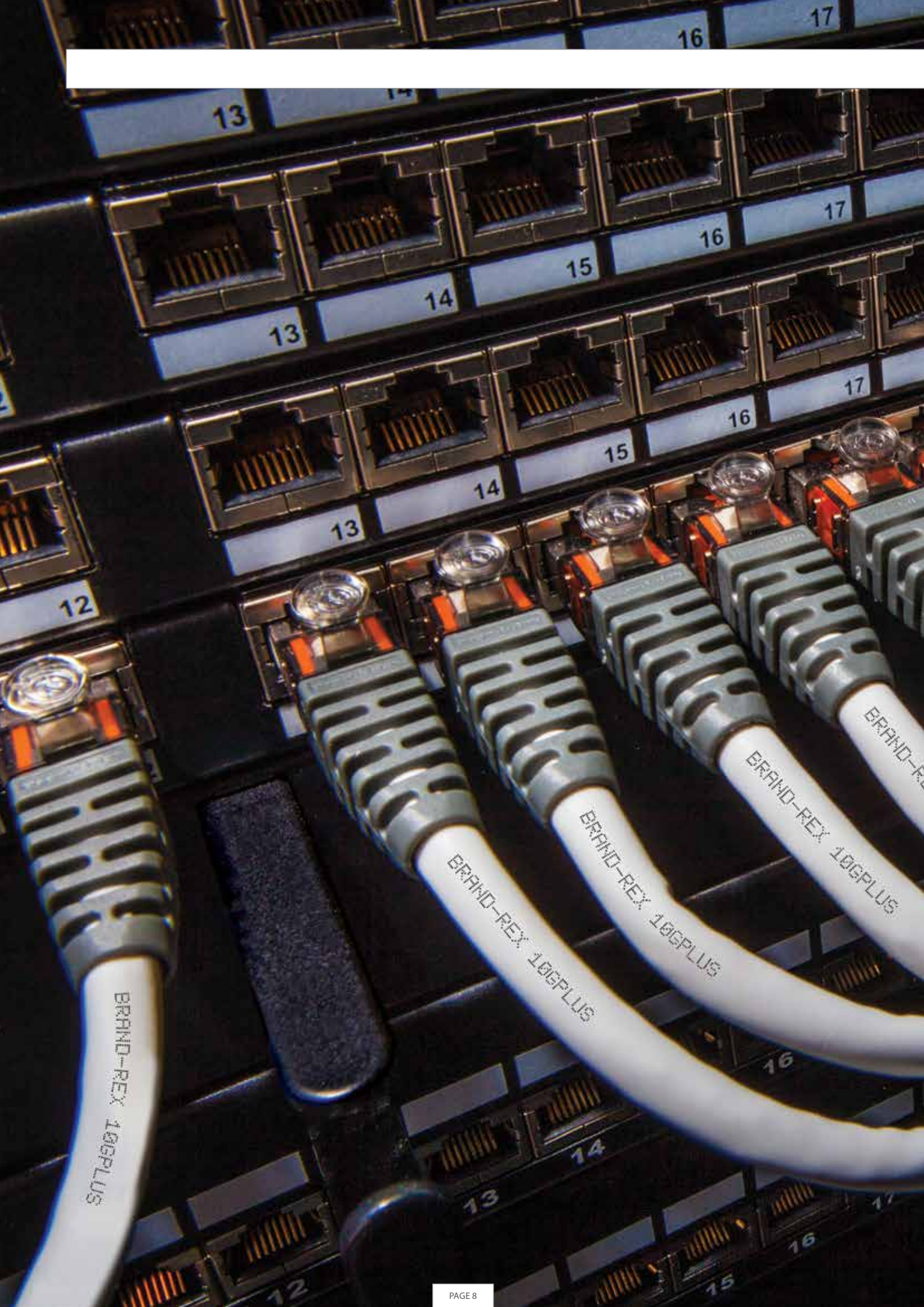
Structured cabling systems have to cope with the ever-growing demands of increasing bandwidth absorption within the local area network. All Brand-Rex copper systems provide the IT Manager with a complete open cabling system from the point of entry, to building distribution, to floor distribution, to wiring closet, to wall outlets, and ultimately to the desk.

The Brand-Rex product range is system based, with each solution containing a full connectivity. Comprising of cable, patch panels, wall outlets and patch cords, the range supports all LAN applications including VoIP and Power over Ethernet.

**A premier grade cabling system** needs standards compliant components, and that is what Brand-Rex systems offer. This is demonstrated through overall link and channel performance. GigaPlus, Cat6Plus and 10GPlus components are engineered to achieve **guaranteed channel performance**.

**Brand-Rex Copper Systems support all the protocols** defined in the international standards including:
• broadband and ISDN
• ATM up to 1.2Gbps
• Ethernet speeds up to 10GBASE-T
  (IEEE 802.3an)
• 1, 2 and 4G Fibre Channel

**Third party independent certificates** of compliance are available for component and channel performance from 3P Testing and GHMT Laboratories GmbH for GigaPlus, Cat6Plus, 10GPlus and U-MediaPlus.

• GigaPlus exceeds the requirements of ISO/IEC 11801 and EN 50173-1 for Class D channels and ANSI/TIA/EIA 568C Category 5e.

• Cat6Plus exceeds the requirements of ISO/IEC 11801 and EN 50173-1 for Class E channels and ANSI/TIA/EIA 568C Category 6.

• 10GPlus exceeds the requirements of ISO/IEC 11801 and EN 50173-1 for Class $E_A$ channels and ANSI/TIA/EIA 568C Augmented Category 6.

• U-MediaPlus is a range of universal media cables that exceed the Category 7 requirements of ISO/IEC 11801 Class F and EN 50173-1 and Class $F_A$.

### AUGMENTED CATEGORY 6 SYSTEM

10 Gigabit Ethernet over copper cabling systems have been heralded as the greatest technological revolution in networking since the birth of Ethernet.

The engineering science dedicated to overcoming the boundaries of convention should not be underestimated. Brand-Rex has dedicated a team of design engineers, technologists and laboratory technicians to developing the highest performance 10 Gigabit Ethernet solution on the market today.

**High performance businesses need high performance networks**
The use of increasingly sophisticated IT applications in modern, competitive business has driven the growth of Ethernet. What value is an enterprise application if the network hardware cannot support it? Whether your business uses demanding graphics based design packages, data hungry finance systems or emerging multi-media communication tools, they have one thing in common, a need for:

• Greater bandwidth

• Maximum transmission reliability

• Life long quality of operation

• Resilience against environmental challenges

10 Gigabit Ethernet provides the next standard platform that will allow the continued growth of high performance business applications. Powerful IT networks, able to deliver the new 10GBASE-T protocol, require phenomenal processing power within active network switching and routing hardware. Such active hardware commands a very high price.

Yet this investment is pointless unless supported by an equally sophisticated cabling system.  It is vital that you can trust the claims of any 10 Gigabit Ethernet cabling system since the choices made today will impact the business applications of tomorrow.

## > UNSHIELDED

### Communication Cable, U/UTP, 100 Ω, 4x2xAWG 23/1

10GPlus U/UTP, 100 Ω, 4x2,AWG23/1 is a premium grade Class E$_A$ / Augmented Category 6 cable to support 10 Gigabit Ethernet protocol for installation in horizontal and backbone applications. Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24, HF3-22 = IEC 60332-3-22.

| Part Number | Length (m) |
|---|---|
| AC6U-HF1-500VT | 500 |
| AC6U-HF1-1000VT | 1000 |
| AC6U-HF3-500BU | 500 |
| AC6U-HF3-1000BU | 1000 |
| AC6U-HF3-22-500GN | 500 |

VT = Violet   BU = Blue   GN = Green

**Cable Standards**

The cable is compliant with: ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-11-1. The cable is fully backwards compatible with Category 5 and Category 6 systems. Halogen Free Flame Retardant Low Smoke (HFFR-LS) cable types (LSHF) meet IEC 60754-2 and IEC 61034.

## > SHIELDED

### Communication Cable, F/FTP, 100 Ω, 4x2xAWG 23/1
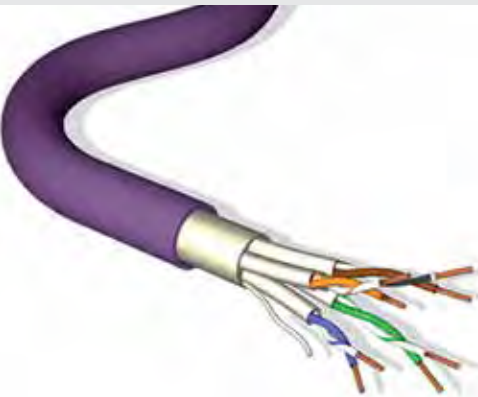
10GPlus F/FTP, 100 Ω, 4x2xAWG 23/1 is a premium grade Class E$_A$ / Augmented Category 6 cable to support 10 Gigabit Ethernet protocol for installation in horizontal and backbone areas. Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| AC6F/FTP-HF1-500VT | 500 |
| AC6F/FTP-HF1-1000VT | 1000 |
| AC6F/FTP-HF1-D500VT | 500 |
| AC6F/FTP-HF1-D1000VT | 1000 |
| AC6F/FTP-HF3-500BU | 500 |
| AC6F/FTP-HF3-1000BU | 1000 |
| AC6U/FTP-HF1-Rlx-305VT | 305 |
| AC6U/FTP-HF3-500BU | 500 |

VT = Violet   BU = Blue   D = Duplex   Rlx = Reuleaux

**Cable Standards**

The cable is compliant with: IEC 61156-5 and EN50288-10-1. The cable is fully backwards compatible with Category 5 and Category 6 systems. Halogen Free Flame Retardant Low Smoke (HFFR-LS) cable types (LSHF) meet IEC 60754-2 and IEC 61034.

## > SHIELDED

### Communication Cable, S/FTP, 100 Ω, 4x2xAWG 23/1
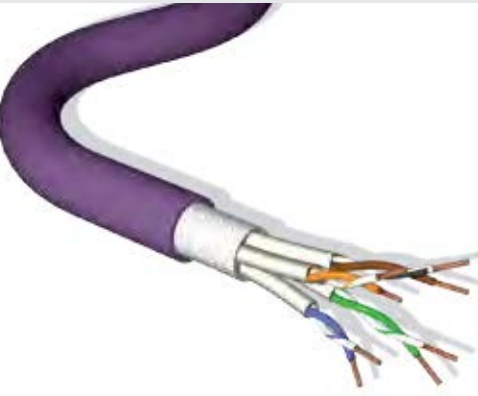
10GPlus S/FTP, 100 Ω, 4x2xAWG 23/1 is a premium grade Class E$_A$ / Augmented Category 6 cable to support 10 Gigabit Ethernet protocol for installation in horizontal and backbone areas. Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| AC6S/FTP-HF1-500VT | 500 |
| AC6S/FTP-HF1-1000VT | 1000 |
| AC6S/FTP-HF1-D500VT | 500 |
| AC6S/FTP-HF1-D1000VT | 1000 |
| AC6S/FTP-HF3-500BU | 500 |
| AC6S/FTP-HF3-1000BU | 1000 |

VT = Violet   BU = Blue   D = Duplex

**Cable Standards**

The cable is compliant with: IEC 61156-5 and EN50288-10-1. The cable is fully backwards compatible with Category 5 and Category 6 systems. Halogen Free Flame Retardant Low Smoke (HFFR-LS) cable types (LSHF) meet IEC 60754-2 and IEC 61034.

## > SHIELDED

### Communication Cable, U/FTP, 100 Ω, 4x2xAWG 23/1
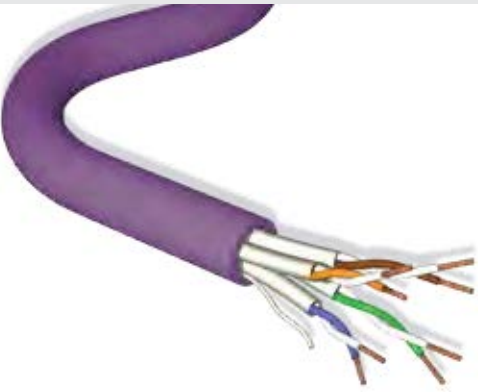
10GPlus U/FTP, 100 Ω, 4x2xAWG 23/1 is a premium grade Class E$_A$ / Augmented Category 6 cable to support 10 Gigabit Ethernet protocol for installation in horizontal and backbone areas. Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| AC6U/FTP-HF1-500VT | 500 |
| AC6U/FTP-HF1-1000VT | 1000 |
| AC6U/FTP-HF1-D500VT | 500 |
| AC6U/FTP-HF1-D1000VT | 1000 |

VT = Violet   BU = Blue   D = Duplex

**Cable Standards**

The cable is compliant with: IEC 61156-5 and EN50288-10-1. The cable is fully backwards compatible with Category 5 and Category 6 systems. Halogen Free Flame Retardant Low Smoke (HFFR-LS) cable types (LSHF) meet IEC 60754-2 and IEC 61034.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BLOLITE | MicroBio | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## > SHIELDED

### Zone Communication Cable, U/FTP, 100 Ω, 4x2xAWG 26/1
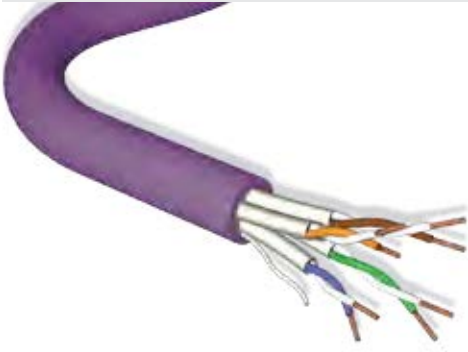
10GPlus U/FTP, 100 Ω, 4x2xAWG 26/1 is a premium grade Class $E_A$ / Augmented Category 6 cable to support 10 Gigabit Ethernet protocol for use within the Data Centre environment, restricted to 70m length. Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
| --- | --- |
| AC6-DCZ-500VT | 500 |
| AC6-DCZ-1000VT | 1000 |
| AC6-DCZ-HF3-500BU | 500 |
| AC6-DCZ-HF3-1000BU | 1000 |
| AC6-DCZ-Rlx-305VT | 350 |

VT = Violet   BU = Blue   Rlx = Reuleaux

**Cable Standards**

The cable is compliant with:
IEC 61156-6 and EN50288-10-2.

Halogen Free cable types (LSHF) meet IEC 60754-2 and IEC 61034.

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### Augmented Category 6 Server Patch Cords
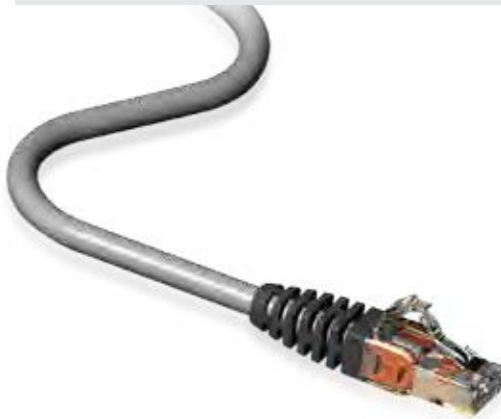
The Augmented Category 6 patch cord is part of the Brand-Rex 10GPlus cabling system. The 10GPlus cabling system is comprised of high performance cables and connectivity which not only provide a reliable platform for all of today's network applications, but is also designed to future-proof networks for the emerging, new higher speed protocols of tomorrow, such as 10GBASE-T. The 10GPlus system is classified as an Augmented Category 6 and Class $E_A$ product set that is fully backwards compatible to Category 6 (Class E) and Category 5e (Class D) products.

| Description | Red | Blue | Green | Yellow | Grey |
| --- | --- | --- | --- | --- | --- |
| 26 AWG SFTP  1.0m | AC6PCG010-188HB | AC6PCG010-488HB | AC6PCG010-588HB | AC6PCG010-688HB | AC6PCG010-888HB |
| 26 AWG SFTP - 2.0m | AC6PCG020-188HB | AC6PCG020-488HB | AC6PCG020-588HB | AC6PCG020-688HB | AC6PCG020-888HB |
| 26 AWG SFTP - 3.0m | AC6PCG030-188HB | AC6PCG030-488HB | AC6PCG030-588HB | AC6PCG030-688HB | AC6PCG030-888HB |
| 26 AWG SFTP - 5.0m | AC6PCG050-188HB | AC6PCG050-488HB | AC6PCG050-588HB | AC6PCG050-688HB | AC6PCG050-888HB |

*Also available in white, orange and black.*
*Non standard colour and length options are available to order on request.*

Note:- Boots are only available in Slate Grey. If boot colouring is required, a Retrofit coloured boot clip can be purchased separately.
(Brand-Rex ref:-MMCPCCHBz  Where z = 1= Red, 4 = Blue 5 = Green 6 = Yellow)

| Description | Qty | Part Number |
| --- | --- | --- |
| Shielded Patch Cord Clip – Red | 100 | MMCPCCHB001 |
| Shielded Patch Cord Clip – Black | 100 | MMCPCCHB002 |
| Shielded Patch Cord Clip – White | 100 | MMCPCCHB003 |
| Shielded Patch Cord Clip – Blue | 100 | MMCPCCHB004 |
| Shielded Patch Cord Clip – Green | 100 | MMCPCCHB005 |
| Shielded Patch Cord Clip – Yellow | 100 | MMCPCCHB006 |

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### Augmented Category 6 Snap-in-Jack Panel

The Augmented Category 6 Snap-in-Jack panel is part of the Brand-Rex 10GPlus cabling system.

| Description | Part Number |
| --- | --- |
| 24 Port Modular Snap-in-Jack Panel - Grey | MMCPNLX24SIJ2M-B |
| 24 Port Modular Snap-in-Jack Panel - Black | MMCPNLX24SIJ8M-B |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Augmented Category 6 1U 24 Port Patch Panel

The 10GPlus 19" rack mounted 1U 24 port patch panel delivers true Augmented Category 6/Class E$_A$ performance and is ideal for Data Centre applications. The robust patch panel features 4 easy to remove shielded modular units each comprising of 6 ports. To assure optimum link performance the panel has been designed with integrated rear cable management to provide easy routing and strain relief. Ports are numerically identified and offer maximum space for ease of port numbering and panels are supplied with cable ties, panel mounting kit and earth cable. All panels are also backwards compatible.

**Applicable Product Standards**
Augmented Category 6 and Class E$_A$ ISO/IEC 11801 Ed 2.2 , IEC 60603-7-51 and ANSI/TIA 568-C.2

| Description | Part Number |
| --- | --- |
| 10GPlus 1U Shielded 24 Port Patch Panel - Black | AC6PNLF240K2M |
| 10GPlus 1U Shielded 24 Port Patch Panel - Grey | AC6PNLF240K8M |
| 10GPlus Replacement Panel Module - Metallic | AC6CPF060K |

## Augmented Category 6 Half U 24 Port Patch Panel

The 10GPlus 19" rack mounted 1/2U 24 port patch panel delivers true Augmented Category 6/Class E$_A$ performance and is ideal for Data Centre applications. The robust patch panel features 4 easy to remove shielded modular units each comprising of 6 ports. To assure optimum link performance the panel has been designed with integrated rear cable management to provide easy routing and strain relief. Ports are numerically identified and offer maximum space for ease of port numbering and panels are supplied with cable ties, panel mounting kit and earth cable. All panels are also backwards compatible.

**Applicable Product Standards**
Augmented Category 6 and Class E$_A$ ISO/IEC 11801 Ed 2.2 , IEC 60603-7-51 and ANSI/TIA 568-C.2

| Description | Part Number |
| --- | --- |
| 10GPlus ½U Shielded 24 Port Patch Panel - Black | AC6PNLF240K2H |
| 10GPlus ½U Shielded 24 Port Patch Panel - Grey | AC6PNLF240K8H |
| 10GPlus Replacement Panel Module - Metallic | AC6CPF060K |

## Augmented Category 6 Consolidation Point Module

The 10GPlus Consolidation Point Module offers true Augmented Category 6/Class E$_A$ Performance and is as flexible solution, ideal for use in the open office environment. Each module comprises of 6 RJ45 ports and can be supplied as a low profile stand alone module or with mounting bracket. The mounting bracket option allows for secure fixing to walls, ceilings and under floors, it also features cable tie points for added security. The cover can easily be removed to gain access to the LSA IDC's for termination. An area on top of the cover is available for port identification. All modules are backwards compatible for Cat5e and Cat6 systems. The module base and cover are made from a lightweight construction which offers excellent shielding characteristics.

**Applicable Product Standards**
Augmented Category 6 and Class E$_A$ ISO/IEC 11801 Ed 2.2 , IEC 60603-7-51 and ANSI/TIA 568-C.2

| Description | Part Number |
| --- | --- |
| 10GPlus Consolidation Point Module - 6 Way - Metallic | AC6CPF060K |
| 10GPlus Consolidation Point Module with mounting bracket - 6 Way - Metallic | AC6CPF060KM |
| 10GPlus 1/2U Patch Panel Chassis Only | AC6PNLC240K2H |
| 10GPlus 1/2U Patch Panel Chassis Only | AC6PNLC240K8H |
| 10GPlus 1U Patch Panel Chassis Only | AC6PNLC240K2M |
| 10GPlus 1U Patch Panel Chassis Only | AC6PNLC240K8M |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BLOLITE | MICROBIO | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## Augmented Category 6 Shielded Tool-free Snap-in-Jack

The Augmented Category 6 fully shielded jack has been designed with an emphasis on taking the time out of termination. Its ease of use ensures it is one of the most intuitive products on the market, coupled with its exceptional electrical performance makes it the only choice for your network.

**Applicable Product Standards**
ISO/IEC category: Category6A performance connector for use in Class EA cabling systems. ISO/IEC 11801 ed 2.2 (2011), IEC 60603-7, 7-1, 7-51, EIA/TIA 568C series: Category 6$_A$ performance

| Description | Part Number |
|---|---|
| Augmented Category 6 Shielded Tool-free Jack | AC6JAKS000DC |

## Augmented Category 6 Snap-in-Jacks

The 10GPlus Snap-in-Jack offers true Class E$_A$ component performance using a patented contact array design. The 10GPlus system is classified as an Augmented Category 6 and Class E$_A$ product set that is fully backwards compatible to Category 6 (Class E) and Category 5e (Class D) products. The jack is also fully compatible with all our UK and Continental style faceplates and products.

**Applicable Product Standards**
ISO/IEC category: Category6A performance connector for use in Class EA cabling systems. ISO/IEC 11801 ed 2.2 (2011), IEC 60603-7, EIA/TIA 568C series: Category 6$_A$ performance

| Description | Part Number |
|---|---|
| 10GPlus Unshielded Snap-in-Jack - Black | AC6JAKUOK2 |
| 10GPlus Unshielded Snap-in-Jack - White | AC6JAKUOK3 |
| 10GPlus Shielded Snap-in-Jack - Metallic | AC6JAKFOK2 |

## Augmented Category 6 Unshielded Tool-free Jack

When used within a channel the tool-free jack provides an industry leading electrical performance and is fully compatible with Brand-Rex UK and continental UNI style faceplates and products. The jacks come supplied in boxes of 12; termination instructions are on the rear of the box. No termination tool is required. Each jack has integral colour code wiring labels.

**Applicable Product Standards**
ISO/IEC category: Category6A performance connector for use in Class EA cabling systems. ISO/IEC 11801 ed 2.2 (2011), IEC 60603-7, EIA/TIA 568C series: Category 6$_A$ performance

| Description | Part Number |
|---|---|
| 10G Unshielded Tool-free Jack | AC6JAKU002 |

## Jack/ SIJ panel compatibility Matrix

| Description | Part Number | 10GPlus Snap-in-Jack Screened - Tool-free AC6JAKS000DC | 10GPlus Snap-in-Jack Unscreened - Tool-free Black AC6JAKU002 | 10GPlus Snap-in-Jack Unscreened LSA IDC Black AC6JAKU0K2 | 10GPlus Snap-in-Jack Screened LSA IDC AC6JAKU0K3 | 10GPlus Snap-in-Jack Unscreened LSA IDC White AC6JAKF0K2 |
|---|---|---|---|---|---|---|
| 1U 24 Port SIJ inline panel with management - Black | MMCPNLX24SIJ2MIL | x | x | - | - | - |
| 1U 24 Port SIJ inline panel with management - Grey | MMCPNLX24SIJ8MIL | x | x | - | - | - |
| 1U 24 Port SIJ staggered panel - Black | MMCPNLX24SIJ2 | x | x | x | x | x |
| 1U 24 Port SIJ staggered panel - Grey | MMCPNLX24SIJ8 | x | x | x | x | x |
| 10GPlus 1U 24 Port SIJ staggered panel with management - Black | MMCPNLX24SIJ2M-B | x | x | x | x | x |
| 10GPlus 1U 24 Port SIJ staggered panel with management - Grey | MMCPNLX24SIJ8M-B | x | x | x | x | x |
| 1U 24 Port SIJ angled panel with management - Black | MMCPNLX24SIJ2MAN | x | x | - | - | - |
| 1U 48 Port SIJ Panel With Management Bar - Black | MMCPNLX48SIJIU2 | x | - | - | - | - |
| 1U 24 Port Colour Insert Panel - Black | MMCPNLX24SIJ2DCI | x | x | - | - | - |
| 1U 24 Port Colour Insert Panel - Grey | MMCPNLX24SIJ8DCI | x | x | - | - | - |
| 1U 24 Port SIJ Intelligent Ready Panel - Black | IPSPNLX24SIJ2M-X | x | - | - | - | - |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

**BRAND-REX CATEGORY 7 AND 7$_A$ CABLING**

**Designed for use in Class F and F$_A$ systems and backwards compatible to lower classes.**

**Key Features**

• U-MediaPlus is a range of universal media cables that exceed the Category 7 and Category 7$_A$ requirements of ISO/IEC 11801 and EN 50173-1.

• Third party independent certificates of compliance (from 3P) are available.

• Provides a foundation for supporting high bandwidth and high frequency multi-media broadcast applications. Suitable for cable sharing applications.

• Highest electrical performance provided by individual screening of balanced cable pairs.

• Suitable for use in high data rate LAN systems and for providing a platform for transmissions of multi-media and broadcast technologies.

10GPLUS

U-MEDIAPLUS

CAT6PLUS

GIGAPLUS

VOICE

ACCESSORIES

FIBREPLUS

BLOLITE

MICROBIO

HI-DEX

MTCONNECT

CABINETS

SMARTPATCH

## > SHIELDED

### Communication Cable, PIMF cable, S/FTP, 100 Ω, 4x2xAWG 23/1
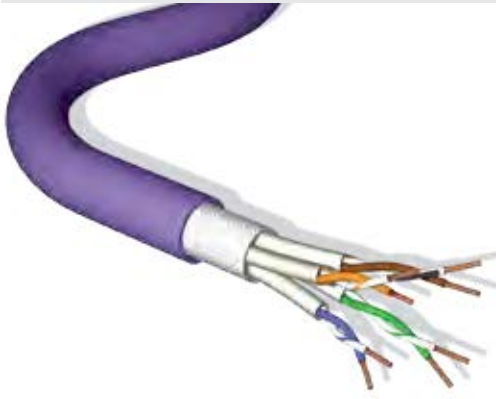
U-MediaPlus S/FTP, 100 Ω, 4x2xAWG 23/1 premium grade Class F/Cat 7 cables to support
10 Gigabit Ethernet protocol for installation in horizontal and backbone areas.
Fire safety rating - HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| UM10-HF1-500VT | 500 |
| UM10-HF1-1000VT | 1000 |
| UM10-HF1-D500VT | 500 |
| UM10-HF1-D1000VT | 1000 |
| UM10-HF1-X-500BK | 500 |
| UM10-HF1-X-1000BK | 1000 |
| UM10-HF3-500BU | 500 |
| UM10-HF3-1000BU | 1000 |
| UM10-HF3-D500BU | 500 |
| UM10-HF3-D1000BU | 1000 |

**Cable Standards**
The cable is compliant with:
ISO/IEC 61156-5 ed3 and EN 50288-4-1

VT = Violet   BU = Blue   BK = Black   D = Duplex
X = External Polyethelene sheath (not compliant with 60332-1-2)

## > SHIELDED

### Communication Cable, PIMF Cable, S/FTP, 100Ω, 4x2xAWG 22/1
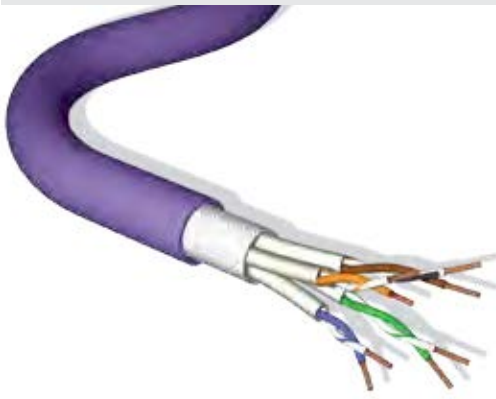
U-MediaPlus S/FTP, 100 Ω, 4x2xAWG 22/1 premium grade Class $F_A$/Cat $7_A$ cables to support
10 Gigabit Ethernet protocol for installation in horizontal and backbone areas.
Fire safety rating - HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| UM12-HF1-500VT | 500 |
| UM12-HF1-1000VT | 1000 |
| UM12-HF1-D500VT | 500 |
| UM12-HF1-D1000VT | 1000 |
| UM12-HF3-500BU | 500 |
| UM12-HF3-1000BU | 1000 |
| UM12-HF3-D500BU | 500 |
| UM12-HF3-D1000BU | 1000 |

**Cable Standards**
The cable is compliant with:
ISO/IEC 61156-5 ed3 and EN 50288-4-1

VT = Violet   BU = Blue   D = Duplex

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

**BRAND-REX CAT6PLUS SYSTEM
(CATEGORY 6 - CLASS E)**

**Key Features**

• Cat6Plus is a Class E, Category 6 performance cabling system, it is interoperable with standards compliant products and fully backwards compatible to lower performances classes. Third party independent certificates of compliance are available for cables, component and channel performance from 3P Testing and GHMT Laboratories GmbH.

• The performance headroom provided by Cat6Plus makes it a reliable and safe choice of cabling to support Gigabit Ethernet.

• 1000BASE-T will operate with a lower bit error rate given the extra margin afforded by Cat6Plus.

• Cat6Plus shielded systems will support 10GBASE-T in any channel configuration. (Subject to testing to IEC TR 24750).

• Cat6Plus supports broadband video applications up to 550MHz.

• Cat6Plus supports Power over Ethernet (PoE and PoEP) applications including:
  - VoIP
  - WLAN access points
  - Security cameras etc

• The system is available in both shielded and unshielded options.

> UNSHIELDED

## Communication Cable, U/UTP, 100 Ω, 4x2xAWG 23/1
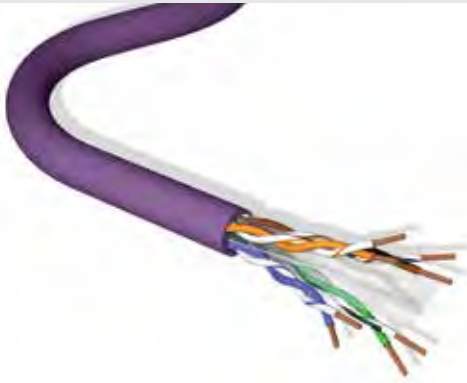
Cat6Plus U/UTP, 100 Ω, 4x2xAWG 23/1 premium grade Class E/Cat 6 cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas.
Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| C6U-HF1-Rlx-305VT | 305 |
| C6U-HF1-500VT | 500 |
| C6U-HF1-1000VT | 1000 |
| C6U-HF1-D500VT | 500 |
| C6U-HF1-D1000VT | 1000 |
| C6U-HF3-500BU | 500 |
| C6U-HF3-1000BU | 1000 |
| C6U-HF3-D500BU | 500 |
| C6U-HF3-D1000BU | 1000 |
| C6U-HF3-22-500GN | 500 |
| C6U-HF1-X-500BK | 500 |
| C6U-HF1-X-1000BK | 1000 |

**Cable Standards**
The cable is compliant with:
ISO/IEC 61156-5, EN 50288-6-1 and ANSI/TIA/EIA 586C.2

VT = Violet   BU = Blue   BK = Black   GN= Green   D = Duplex

> SHIELDED

## Communication Cable, F/UTP, 100Ω, 4x2xAWG 23/1

Cat6Plus F/UTP, 100 Ω, 4x2xAWG 23/1 premium grade Class E/Cat 6 cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas, PoE, PoEP and broadband video transmissions at frequencies as high as 550MHz.
Fire safety rating: HF1 = IEC 60332-1-2, HF3-22 = IEC 60332-3-22.

| Part Number | Length (m) |
|---|---|
| C6F/UTP-HF1-Rlx - 305VT | 305 |
| C6F/UTP-HF1-500VT | 500 |
| C6F/UTP-HF1-1000VT | 1000 |
| C6F/UTP-HF1-D500VT | 500 |
| C6F/UTP-HF1-D1000VT | 1000 |

**Cable Standards**
The cable is compliant with:
IEC 61156-5 and EN50288-5-1

VT = Violet   D = Duplex

> SHIELDED

## Communication Cable, U/FTP, 100 Ω, 4x2xAWG 23/1
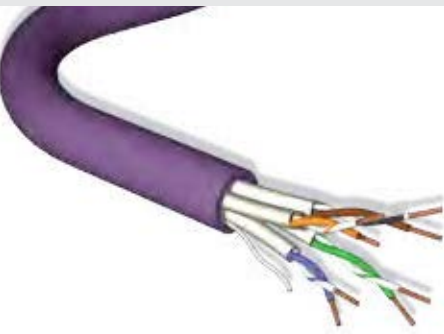
Cat6Plus U/FTP, 100 Ω, 4x2xAWG 23/1 premium grade Class E/Cat 6 cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas.
Fire safety rating: HF1 = IEC 60332-1-2.

| Part Number | Length (m) |
|---|---|
| C6U/FTP-HF1-500VT | 500 |
| C6U/FTP-HF1-1000VT | 1000 |
| C6U/FTP-HF1-D500VT | 500 |
| C6U/FTP-HF1-D1000VT | 1000 |
| C6U/FTP-HF1-Rlx-305VT | 305 |
| C6U/FTP-HF3-500BU | 500 |

**Cable Standards**
The cable is compliant with:
IEC 61156-5 and EN50288-5-1

VT = Violet   BU = Blue   Rlx = Reuleaux   D = Duplex

> SHIELDED

## Communication Cable, F/FTP, 100 Ω, 4x2xAWG 23/1
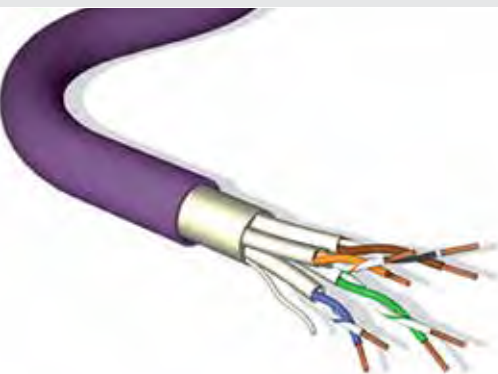
Cat6Plus F/FTP, 100 Ω, 4x2xAWG 23/1 premium grade Class E/Cat 6 cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas.
Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| C6F/FTP-HF1-500VT | 500 |
| C6F/FTP-HF1-1000VT | 1000 |
| C6F/FTP-HF1-D500VT | 500 |
| C6F/FTP-HF1-D1000VT | 1000 |
| C6F/FTP-HF3-500BU | 500 |
| C6F/FTP-HF3-1000BU | 1000 |

**Cable Standards**
The cable is compliant with:
IEC 61156-5 and EN50288-5-1

VT = Violet   BU = Blue   D = Duplex

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## > SHIELDED

## Communication Cable, S/FTP, 100 Ω, 4x2xAWG 23/1
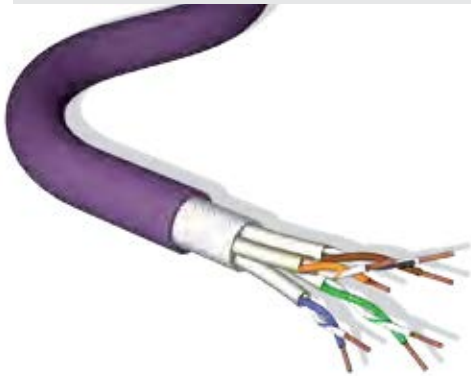
Cat6Plus S/FTP, 100 Ω, 4x2xAWG 23/1 premium grade Class E/Cat 6 cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas.
Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| C6S/FTP-HF1-500VT | 500 |
| C6S/FTP-HF1-1000VT | 1000 |
| C6S/FTP-HF1-D500VT | 500 |
| C6S/FTP-HF1-D1000VT | 1000 |
| C6S/FTP-HF3-500BU | 500 |
| C6S/FTP-HF3-1000BU | 1000 |
| C6S/FTP-HF3-D500BU | 500 |

VT = Violet   BU = Blue   D = Duplex

**Cable Standards**

The cable is compliant with:
IEC 61156-5 and EN50288-5-1

## Category 6 Patch Cords

Cat6Plus patch cords enable you to get the optimum performance from your cabling system. Our factory made and tested patch cords offer you guaranteed quality, and ensure that your system avoids the performance degradation which inferior alternatives will give you at high data rates. All patch cords are supplied with boots and ID tag.

**SFTP**

| | Red | Blue | Green | Yellow | Grey |
|---|---|---|---|---|---|
| 24 AWG UTP - 1.0m | C6CPCU010-111BB | C6CPCU010-444BB | C6CPCU010-555BB | C6CPCU010-666BB | C6CPCU010-888BB |
| 24 AWG UTP - 2.0m | C6CPCU020-111BB | C6CPCU020-444BB | C6CPCU020-555BB | C6CPCU020-666BB | C6CPCU020-888BB |
| 24 AWG UTP - 3.0m | C6CPCU030-111BB | C6CPCU030-444BB | C6CPCU030-555BB | C6CPCU030-666BB | C6CPCU030-888BB |
| 24 AWG UTP - 5.0m | C6CPCU050-111BB | C6CPCU050-444BB | C6CPCU050-555BB | C6CPCU050-666BB | C6CPCU050-888BB |
| 27 AWG SFTP - 1.0m | C6CPCS010-188HB | C6CPCS010-488HB | C6CPCS010-588HB | C6CPCS010-688HB | C6CPCS010-888HB |
| 27 AWG SFTP - 2.0m | C6CPCS020-188HB | C6CPCS020-488HB | C6CPCS020-588HB | C6CPCS020-688HB | C6CPCS020-888HB |
| 27 AWG SFTP - 3.0m | C6CPCS030-188HB | C6CPCS030-488HB | C6CPCS030-588HB | C6CPCS030-688HB | C6CPCS030-888HB |
| 27 AWG SFTP - 5.0m | C6CPCS050-188HB | C6CPCS050-488HB | C6CPCS050-588HB | C6CPCS050-688HB | C6CPCS050-888HB |

*Note:- On the SFTP Screened Cords the boots are only available in Slate Grey. If boot colouring is required, a Retrofit coloured boot clip can be purchased separately. This is only compatible with the screened cords.*
*(Brand-Rex ref:-MMCPCCHB00z Where z = 1= Red, 4 = Blue 5 = Green 6 =Yellow)*

| Description | Qty | Part Number |
|---|---|---|
| SFTP Patch Cord Clip – Red | 100 | MMCPCCHB001 |
| SFTP Patch Cord Clip – Black | 100 | MMCPCCHB002 |
| SFTP Patch Cord Clip – White | 100 | MMCPCCHB003 |
| SFTP Patch Cord Clip – Blue | 100 | MMCPCCHB004 |
| SFTP Patch Cord Clip – Green | 100 | MMCPCCHB005 |
| SFTP Patch Cord Clip – Yellow | 100 | MMCPCCHB006 |

## Category 6 Panel with cable management

The Cat6Plus 19" rack mounted patch panel offers true Category 6 component performance using a new patented contact pin array design. All panels are backwards compatible.
The modular jacks that are used in blocks of 8 are individually shielded to give superior shielding. In addition to this, each panel has been designed with a cable management/ strain relief feature built into the rear. All outlets are numerically identified with an additional writable surface for ease of port naming. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

**Applicable Product Standards**
Category 6 ANSI/EIA/TIA 568B C series, ISO/IEC 11801 ammendments EN50173-1

| Description | Part Number |
|---|---|
| Shielded Panel LSA Style - Black | C6CPNLF240K2M |
| Shielded Panel LSA Style - Grey | C6CPNLF240K8M |
| Unshielded Panel LSA Style - Black | C6CPNLU240K2M |
| Unshielded Panel 110 Style - Black | C6CPNLU24012M |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BIOLITE | MICROBIO | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## Category 6 Half U 24 Port Patch Panel

The Cat6Plus 19" rack mounted ½U 24 Port Shielded and Unshielded patch panels offer a port density which delivers 48 terminations in a single U height with true Category 6 component performance using a patented contact pin array design. The robust and easy to install patch panel employs a conventional termination method that affords the installer the maximum punch down accessibility for wire termination. To assure the optimum link performance the panel has been designed with integral rear cable management which provides easy routing and strain relief for the high performance cabling. The shielded version of the ½U patch panel introduces shielded mounting clips to assure optimum earthing of the cable screens.

**Applicable Product Standards**
Category 6 ANSI/EIA/TIA 568 C series, ISO/IEC/TIA 11801 ammendment EN 50173-1

| Description | Part Number |
|---|---|
| Cat6Plus ½ U 24 Port Unshielded Panel - Black | C6CPNLU240K2H |
| Cat6Plus ½ U 24 Port Unshielded Panel - Grey | C6CPNLU240K8H |
| Cat6Plus ½ U 24 Port Shielded Panel - Black | C6CPNLF240K2H |
| Cat6Plus ½ U 24 Port Shielded Panel - Grey | C6CPNLF240K8H |

## Category 6 Shielded Tool-free Snap-in-Jack

The Category 6 fully shielded jack has been designed with an emphasis on taking the time out of termination. Its ease of use ensures it is one of the most intuitive products on the market, coupled with its exceptional electrical performance makes it the only choice for your network.

**Applicable Product Standards**
ISO/IEC category: Category Cat6 performance connector for use in Class E cabling systems. ISO/IEC 11801 ed 2.2 (2011). IEC 60603-7, -7-1, 7-41 and -7-51. EIA/TIA 568C series: Category 6 performance.

| Description | Part Number |
|---|---|
| Category 6 Shielded Tool-free Jack | C6CJAKS000DC |

## Category 6 Snap-in-Jacks

The Cat6Plus Snap-in-Jack offers true Category 6 component performance using a patented contact array design. The jack is backwards compatible and also fully compatible with all our UK and continental style faceplates and products. Jacks are supplied with a short form installation instruction.

**Applicable Product Standards**
ISO/IEC category: Category Cat6 performance connector for use in Class E cabling systems. ISO/IEC 11801 ed 2.2 (2011). IEC 60603-7, -7-1, 7-41 and -7-51. EIA/TIA 568C series:  Category 6 performance.

| Description | Unshielded | Shielded |
|---|---|---|
| LSA Style - Black | - | C6CJAKF0K2 |
| LSA Style - White | C6CJAKU0K3 | - |
| 110 Style - Black | C6CJAKU012 | - |
| 110 Style - White | C6CJAKU013 | - |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Category 6 Unshielded Tool-free Jack

The Tool-free Jack offers true Cat6 performance and is fully compatible with Brand-Rex UK and continental UNI style faceplates and products. The jacks come supplied in boxes of 12; termination instructions are on the rear of the box. No termination tool is required. Each jack has integral colour code wiring labels.

**Applicable Product Standards**

ISO/IEC category: Category Cat6 performance connector for use in Class E cabling systems. ISO/IEC 11801 ed 2.2 (2011). IEC 60603-7, -7-1, 7-41 and -7-51. EIA/TIA 568C series: Category 6 performance.

| Description | Part Number |
|---|---|
| Category 6 Unshielded Tool-free Jack | C6CJAKU002 |

## Jack/ SIJ panel compatibility Matrix

| Description | Part Number | Cat6Plus Snap-in-Jack Unscreened Tool-free Black C6CJAKS000DC | Cat6Plus Snap-in-Jack Unscreened-Tool-free Black C6CJAKU002 | Cat6Plus Snap-in-Jack Unscreened 110 IDC Black C6CJAKU012 | Cat6Plus Snap-in-Jack Unscreened 110 IDC White C6CJAKU013 | Cat6Plus Snap-in-Jack Unscreened LSA IDC White C6CJAKU0K3 | Cat6Plus Snap-in-Jack Screened LSA IDC C6CJAKF0K2 |
|---|---|---|---|---|---|---|---|
| 1U 24 Port SIJ inline panel with management - Black | MMCPNLX24SIJ2MIL | x | x | - | - | - | - |
| 1U 24 Port SIJ inline panel with management - Grey | MMCPNLX24SIJ8MIL | x | x | - | - | - | - |
| 1U 24 Port SIJ staggered panel - Black | MMCPNLX24SIJ2 | x | x | x | x | x | x |
| 1U 24 Port SIJ staggered panel - Grey | MMCPNLX24SIJ8 | x | x | x | x | x | x |
| 10GPlus 1U 24 Port SIJ staggered panel with management - Black | MMCPNLX24SIJ2M-B | x | x | x | x | x | x |
| 10GPlus 1U 24 Port SIJ staggered panel with management - Grey | MMCPNLX24SIJ8M-B | x | x | x | x | x | x |
| 1U 24 Port SIJ angled panel with management - Black | MMCPNLX24SIJ2MAN | x | x | - | - | - | - |
| 1U 48 Port SIJ Panel With Management Bar - Black | MMCPNLX48SIJIU2 | x | - | - | - | - | - |
| 1U 24 Port Colour Insert Panel - Black | MMCPNLX24SIJ2DCI | x | x | - | - | - | - |
| 1U 24 Port Colour Insert Panel - Grey | MMCPNLX24SIJ8DCI | x | x | - | - | - | - |
| 1U 24 Port SIJ Intelligent Ready Panel - Black | IPSPNLX24SIJ2M-X | x | - | - | - | - | - |

## Category 6 European Style Outlet

The combined shielded outlet and RJ-45 socket has the same proven Category 6 performance as our Cat6Plus panels. Primarily designed for mounting into duct or trunking using a 45mm diameter hole, the outlet can be either flush or wall mounted by using the 80 x 80mm continental styled faceplate and 33mm back box.

18879NB          07058GF

**Applicable Product Standards**
ISO/IEC category: Category Cat6 performance connector for use in Class E cabling systems. ISO/IEC 11801 ed 2.2 (2011). IEC 60603-7, -7-1, 7-41 and -7-51. EIA/TIA 568C series: Category 6 performance

| Description | White | Ivory |
|---|---|---|
| 1 Way Shielded Outlet | 18870NB | 18870NA |
| 2 Way Shielded Outlet | 18879NB | 18879NA |
| 80mm x 80mm Faceplate and Back Box | 07058GF | 07058GE |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Cross Connect Tower Unit and Patch Cord

The tower mount frame provides a modular, high density, cross-connect and cable management system. The base tower is supplied as a 288 pair unit and the capacity can be increased using additional extension frames. Tower units are supplied with wiring bases and connector blocks for 288 pair.

| Description | Part Number |
| --- | --- |
| 110 Tower, 288 pair mounting frame | C6C110TWR288P |
| 110 Tower, 288 pair extension mounting frame | C6C110TWR288PE |

Cross-connect patch cords are available in 110 to 110 style or 110 to RJ45 style. The standard Category 6 110 connector is supplied in a 4 pair version only.

| Description | 110 – 110 | 110 – RJ45 |
| --- | --- | --- |
| Cross Connect Patch Cord - 1.0m | C6C110110PC010 | C6C1101RJ4PC010 |
| Cross Connect Patch Cord - 1.5m | C6C110110PC015 | C6C1101RJ4PC015 |
| Cross Connect Patch Cord - 2.0m | C6C110110PC020 | C6C1101RJ4PC020 |
| Cross Connect Patch Cord - 3.0m | C6C110110PC030 | C6C1101RJ4PC030 |
| Cross Connect Patch Cord - 4.0m | C6C110110PC040 | C6C1101RJ4PC040 |
| Cross Connect Patch Cord - 5.0m | C6C110110PC050 | C6C1101RJ4PC050 |

## Category 6 Cross-Connect Insertion Tool and Wiring Bases and Connector Blocks

**Handle** - To ensure correct termination of Brand-Rex's Category 6 Cross Connect solution it is advised to use a specially designed handle. The handle is used to simultaneously terminate the 4 pairs onto Category 6 Cross Connect wiring bases and underneath the Category 6 connector block. A Replacement Head is also available when the tool becomes worn.

**Wiring Base** - The Category 6 110 wiring base can be supplied as a 48, 96 or 288 pair version, with or without legs. It can also be supplied rack mounted as a 96, 192 or 288 pair version. Designation labels are included with the bases.

**48 Pair Wiring Base Kits** - A typical kit for a 48 pair wiring base includes a basic wiring base and 12 off 4 pair connector blocks.

**96 Pair Wiring Base Kits** - A typical kit for a rack mounted 96 pair wiring base includes 2 off 48 pair wiring base and 24 off 4 pair connector blocks.

**Connector Block** - The 4 pair connector is specifically designed to exceed Category 6 performance, has a robust design and is colour coded for easy identification. The connector is supplied in bags of 10.

| Description | Part Number |
| --- | --- |
| Category 6 110 4 pair handle | C6C1104PITHDL |
| Category 6 110 4 pair Replacement Head | C6C1104PITRH |
| Category 6 110 wiring base 48 pair with legs | C6C110WB48PL |
| Category 6 110 wiring base 48 pair without legs | C6C110WB48P |
| Category 6 110 wiring base 48 pair with legs, Kit | C6C110WB48PLK |
| Category 6 110 wiring base 48 pair without legs, Kit | C6C110WB48PK |
| Category 6 110 wiring base 96 pair with legs | C6C110WB96PL |
| Category 6 110 wiring base 96 pair without legs | C6C110WB96P |
| Category 6 110 wiring base 96 pair with legs, Kit | C6C110WB96PLK |
| Category 6 110 wiring base 96 pair without legs, Kit | C6C110WB96PK |
| Category 6 110 wiring base 288 pair with legs | C6C110WB288PL |
| Category 6 110 wiring base 288 pair without legs | C6C110WB288P |
| Category 6 110 wiring base 288 pair with legs, Kit | C6C110WB288PLK |
| Category 6 110 wiring base 288 pair without legs, Kit | C6C110WB288PK |
| Category 6 110 wiring base 96 pair rack mounted, Kit | C6C110WB96PRK |
| Category 6 110 wiring base 192 pair rack mounted, Kit | C6C110WB192PRK |
| Category 6 110 wiring base 288 pair rack mounted, Kit | C6C110WB288PRK |
| Category 6 110 Connector Block | C6C110CB4P |
| Vertical Cable Organiser for 110 Tower | CMV110TWR |
| Vertical Cable Organiser Extension for 110 Tower | CMV110TWRE |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**
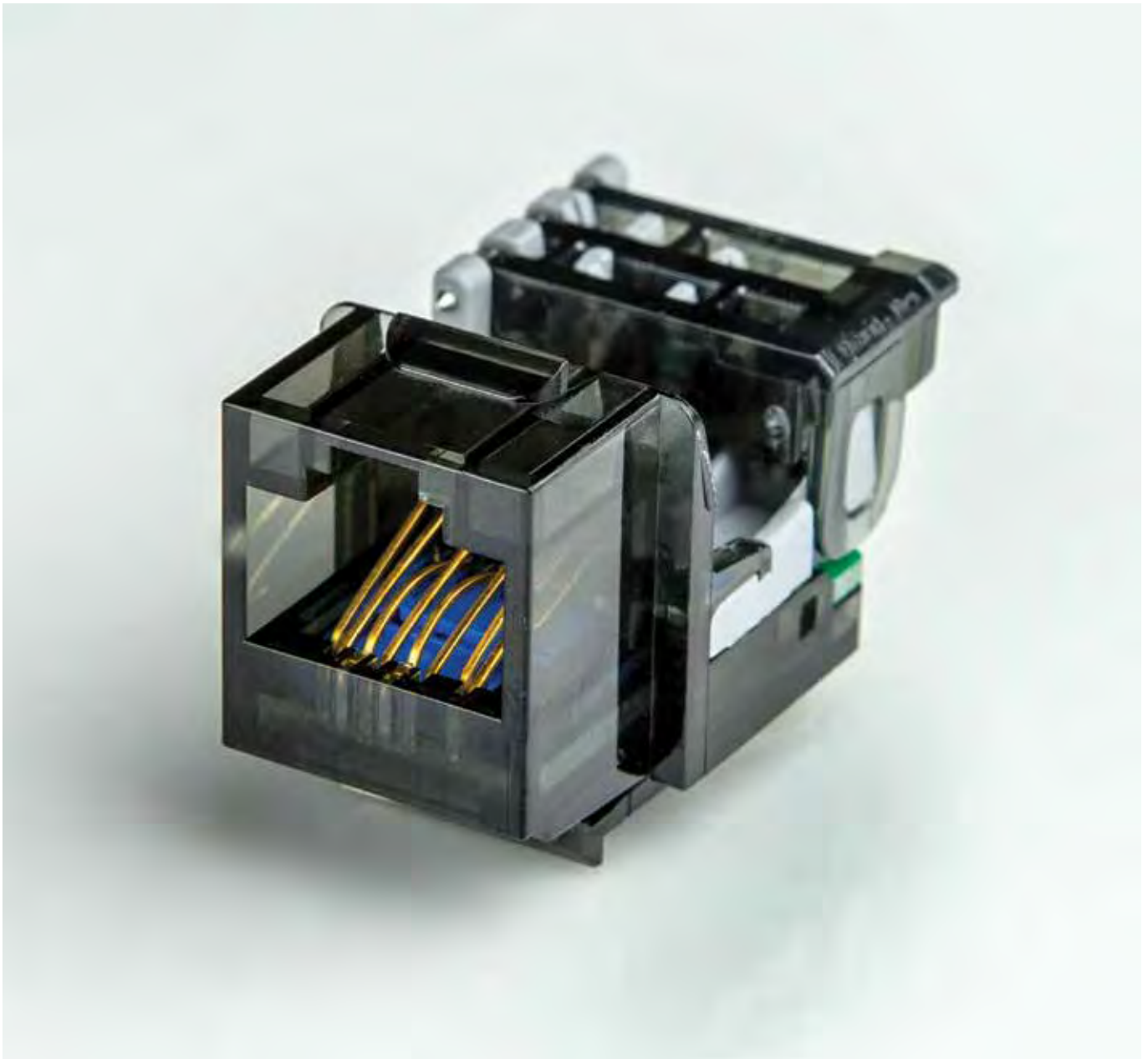
**BRAND-REX GIGAPLUS SYSTEM
(CATEGORY 5E - CLASS D)**

**Key Features**
- GigaPlus is a fully standards compliant open system.

- GigaPlus exceeds the requirements of ISO/IEC 11801 and EN 50173-1 for Class D channels and ANSI/TIA/EIA 568C.

- GigaPlus is third party certified by 3P and GHMT.

- GigaPlus provides a secure, cost-effective and flexible Cat5e cabling system solution for running today's LAN protocols and high speed applications such as 1000Base-T.

- Reduced bit error rate as a result of system margins that exceed the standards.

- System available in both shielded and unshielded options.

- GigaPlus is interoperable and backwards compatible.

- GigaPlus can be installed within hostile environments, contact Brand-Rex for recommendations and advice.

- GigaPlus is Power over Ethernet (PoE and PoEP) compatible and supports
  - VoIP
  - Wireless LAN access points
  - Security cameras

## > UNSHIELDED

### Communication Cable, U/UTP, 100 Ω, 4x2xAWG 24/1
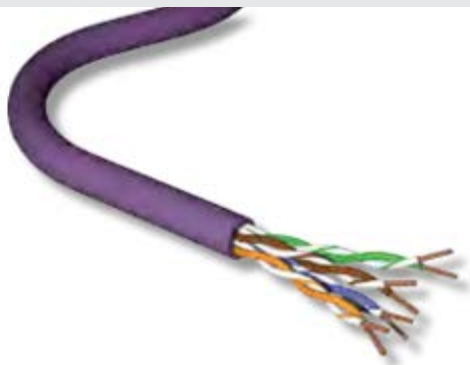
GigaPlus U/UTP 100 Ω 4x2xAWG 24/1 premium grade Class D/Cat5e cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas.
Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| GPU-HF1-Rlx-305VT | 305 |
| GPU-HF1-Rlx-500VT | 500 |
| GPU-HF1-500VT | 500 |
| GPU-HF1-1000VT | 1000 |
| GPU-HF1-D500VT | 500 |
| GPU-HF1-D1000VT | 1000 |
| GPU-HF3-500BU | 500 |
| GPU-HF3-1000BU | 1000 |
| GPU-HF3-D500BU | 500 |
| GPU-HF3-D1000BU | 1000 |
| GPU-HF1-X-500BK | 500 |
| GPU-HF1-X-1000BK | 1000 |

**Cable Standards**
The cable is compliant with:
ISO/IEC 11801, IEC 61156-5, EN 50173-1, EN 50288-3-1 and EIA/TIA 568C

VT = Violet   BU = Blue   BK = Black   D = Duplex   Rlx = Reuleaux
X = External Polyethelene sheath (not compliant with 60332-1-2)

## > SHIELDED

### Communication Cable, F/UTP, 100 Ω, 4x2xAWG 24/1

GigaPlus F/UTP 100 Ω 4x2xAWG 24/1 premium grade Class D/Cat5e cable to support Gigabit Ethernet protocol combined with good EMI/RFI protection for installations in horizontal and backbone areas.
Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| GPF-HF1-500VT | 500 |
| GPF-HF1-1000VT | 1000 |
| GPF-HF1-D500VT | 500 |
| GPF-HF1-D1000VT | 1000 |
| GPF-HF3-500BU | 500 |
| GPF-HF3-1000BU | 1000 |
| GPF-HF3-D500BU | 500 |
| GPF-HF3-D1000BU | 1000 |
| GPF-HF1-X-500BK | 500 |
| GPF-HF1-X-1000BK | 1000 |

**Cable Standards**
The cable is compliant with:
IEC 61156-5, and EN 50288-2-1

VT = Violet   BU = Blue   BK = Black   D = Duplex
X = External Polyethelene sheath (not compliant with 60332-1-2)

## > SHIELDED

### Communication Cable, SF/UTP, 100 Ω, 4x2xAWG 24/1
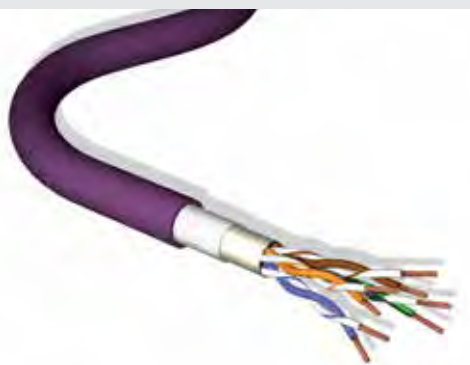
GigaPlus SF/UTP 100 Ω 4x2xAWG 24/1 premium grade Class D/Cat5e cable to support Gigabit Ethernet protocol combined with exceptional EMI/RFI protection for installations in horizontal and backbone areas.
Fire safety rating: HF1 = IEC 60332-1-2, HF3 = IEC 60332-3-24.

| Part Number | Length (m) |
|---|---|
| GPS-HF1-500VT | 500 |
| GPS-HF1-1000VT | 1000 |
| GPS-HF1-D500VT | 500 |
| GPS-HF1-D1000VT | 1000 |
| GPS-HF3-500BU | 500 |
| GPS-HF3-1000BU | 1000 |
| GPS-HF3-D500BU | 500 |
| GPS-HF3-D1000BU | 1000 |

**Cable Standards**
The cable is compliant with:
IEC 61156-5, and EN 50288-2-1

VT = Violet   BU = Blue   D = Duplex

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## GigaPlus Patch Cords

UTP

FTP

GigaPlus patch cords enable you to get the optimum performance from your cabling system. Our factory made and tested patch cords offer you guaranteed quality, and ensure that your system avoids the performance degradation that inferior alternatives will give you at high data rates. All patch cords are supplied with boots and ID tag.

| Description | Red | Blue | Green | Yellow | Grey |
|---|---|---|---|---|---|
| 24 AWG U/UTP - 1.0m | GPCPCU010-111HB | GPCPCU010-444HB | GPCPCU010-555HB | GPCPCU010-666HB | GPCPCU010-888HB |
| 24 AWG U/UTP - 2.0m | GPCPCU020-111HB | GPCPCU020-444HB | GPCPCU020-555HB | GPCPCU020-666HB | GPCPCU020-888HB |
| 24 AWG U/UTP - 3.0m | GPCPCU030-111HB | GPCPCU030-444HB | GPCPCU030-555HB | GPCPCU030-666HB | GPCPCU030-888HB |
| 24 AWG U/UTP - 5.0m | GPCPCU050-111HB | GPCPCU050-444HB | GPCPCU050-555HB | GPCPCU050-666HB | GPCPCU050-888HB |
| 26 AWG F/UTP - 1.0m | GPCPCF010-111H | GPCPCF010-444H | GPCPCF010-555H | GPCPCF010-666H | GPCPCF010-888H |
| 26 AWG F/UTP - 2.0m | GPCPCF020-111H | GPCPCF020-444H | GPCPCF020-555H | GPCPCF020-666H | GPCPCF020-888H |
| 26 AWG F/UTP - 3.0m | GPCPCF030-111H | GPCPCF030-444H | GPCPCF030-555H | GPCPCF030-666H | GPCPCF030-888H |
| 26 AWG F/UTP - 5.0m | GPCPCF050-111H | GPCPCF050-444H | GPCPCF050-555H | GPCPCF050-666H | GPCPCF050-888H |

*Non standard colour and length options are available to order on request.*

## Category 5e Patch Panel

The GigaPlus 19" rack mounted patch panel offers true Category 5e component performance using patented state of the art printed circuit technology. All outlets are numerically identified with an additional writable surface for ease of port naming. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

**Applicable Product Standards**
Category 5e compliant to ISO IEC11801 & amendments, EN50173-1, ANSI/EIA/TIA 568C Series

| Description | 24 Port | 48 Port |
|---|---|---|
| Universal IDC - Black | GPCPNLU24002 | GPCPNLU48002 |

## Category 5e Patch Panel - with Cable Management

The GigaPlus 19" rack mounted patch panel offers true Category 5 component performance using patented state of the art printed circuit technology. Available in 24 port versions, these panels have a cable management / strain relief feature built into the rear mounted grounding bar. All outlets are numerically identified with an additional writable surface for ease of port naming. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

**Applicable Product Standards**
Category 5e compliant to ISO IEC11801 & amendments, EN50173-1, ANSI/EIA/TIA 568C Series

| Description | 24 Port |
|---|---|
| Unshielded Panel 110 Style - Black | GPCPNLU24012M |
| Shielded Panel LSA Style - Black | GPCPNLF240K2M |
| Shielded Panel 110 Style - Black | GPCPNLF24012M |

## > SHIELDED AND UNSHIELDED

## Category 5e Snap-In Lead Frame Jacks

GigaPlus Shielded and Unshielded Snap-in-Jacks offer true Category 5e component performance. The jack is backwards compatible and also fully compatible with all our UK and Continental style faceplates and products. Each jack is supplied with a short form installation instruction and stuffer cap.

**Applicable Product Standards**
ISO/IEC category: Category 5e performance connectors.
ANSI/TIA-968-A. IEC 60603-7. EIA/TIA 568-C.2 series: Category 5e performance

| Description | Unshielded | Shielded |
|---|---|---|
| 110 style white | GPCJAKU013LF | GPCJAKF013LF |

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10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BLULITE | MicroBio | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## > SHIELDED AND UNSHIELDED

### Category 5e Snap-in-Jacks

GigaPlus Shielded and Unshielded Snap-in-Jacks offer true Category 5e component performance. The jacks are backwards compatible and also fully compatible with all our UK and Continental style faceplates and products. Each jack is supplied with a short form installation instruction and cable tie.

**Applicable Product Standards**
ISO/IEC category: Category 5e performance connectors.
ANSI/TIA-968-A. IEC 60603-7. EIA/TIA 568-C.2 series: Category 5e performance

| Description | Unshielded | Shielded |
|---|---|---|
| LSA Style - Black | - | GPCJAKF0K2 |
| LSA Style - White | GPCJAKU0K3 | - |
| 110 Style - Black | GPCJAKU012 | GPCJAKF012 |
| 110 Style - White | GPCJAKU013 | - |

### Category 5e Unshielded Tool-free Jack

The Tool-free Jack offers true Cat5e performance and is fully compatible with Brand-Rex UK and continental UNI style faceplates and products. The jacks come supplied in boxes of 12; termination instructions are on the rear of the box. No termination tool is required. Each jack has integral colour code wiring labels.

**Applicable Product Standards**
ISO/IEC category: Category 5e performance connectors.
ANSI/TIA-968-A. IEC 60603-7. EIA/TIA 568-C.2 series: Category 5e performance

| Description | Unshielded |
|---|---|
| Category 5e Unshielded Tool-free Jack | GPCJAKU002 |

### Jack/ SIJ panel compatibility Matrix

| Description | Part Number | GigaPlus Snap-in-Jack Unscreened Tool-free Black GPCJAKU002 | GigaPlus Snap-in-Jack Unscreened 110 IDC Black GPCJAKU012 | GigaPlus Snap-in-Jack Unscreened 110 IDC White GPCJAKU013 | GigaPlus Lead Frame Snap-in-Jack Unscreened 10 IDC White GPCJAKU013LF | GigaPlus Snap-in-Jack Unscreened LSA IDC White GPCJAKU0K3 | GigaPlus Snap-in-Jack Screened 110 IDC GPCJAKF012 | GigaPlus Lead Frame Snap-in-Jack Screened 110 IDC GPCJAKF013LF |
|---|---|---|---|---|---|---|---|---|
| 1U 24 Port SIJ inline panel with management - Black | MMCPNLX24SIJ2MIL | x | - | - | x | - | - | - |
| 1U 24 Port SIJ inline panel with management - Grey | MMCPNLX24SIJ8MIL | x | - | - | x | - | - | - |
| 1U 24 Port SIJ staggered panel - Black | MMCPNLX24SIJ2 | x | x | x | x | x | x | x |
| 1U 24 Port SIJ staggered panel - Grey | MMCPNLX24SIJ8 | x | x | x | x | x | x | x |
| 10GPlus 1U 24 Port SIJ staggered panel with management - Black | MMCPNLX24SIJ2M-B | x | x | x | x | x | x | x |
| 10GPlus 1U 24 Port SIJ staggered panel with management - Grey | MMCPNLX24SIJ8M-B | x | x | x | x | x | x | x |
| 1U 24 Port SIJ angled panel with management - Black | MMCPNLX24SIJ2MAN | x | - | - | x | - | - | - |
| 1U 48 Port SIJ Panel With Management Bar - Black | MMCPNLX48SIJIU2 | - | - | - | - | - | - | - |
| 1U 24 Port Colour Insert Panel - Black | MMCPNLX24SIJ2DCI | x | - | - | x | - | - | - |
| 1U 24 Port Colour Insert Panel - Grey | MMCPNLX24SIJ8DCI | x | - | - | x | - | - | - |
| 1U 24 Port SIJ Intelligent Ready Panel - Black | IPSPNLX24SIJ2M-X | - | - | - | - | - | - | - |

### Category 5e Slimline Shuttered Modules - Shielded and Unshielded

GigaPlus Slimline Shuttered Modules offer true Category 5e component performance and are fully compatible with Brand-Rex UK and continental UNI style faceplates and products, and are suitable for applications where internal back box space is limited. Each jack is supplied with a shortform installation instruction and a cable tie to attach the cable to the cable anchor. Modules are supplied with a colour code wiring label.

GPCSLA62SB03     GPCSL062SB03     GPCSL06CSB03

**Applicable Product Standards**
ISO/IEC 11801 Amms, ANSI/EIA/TIA 568C, EN50173-1

| Description | Unshielded | Shielded |
|---|---|---|
| 50mm x 25mm Slimline Shuttered Module - White | GPCSL062UB03 | GPCSL062SB03 |
| 38mm x 25mm Slimline Shuttered Module - White | GPCSL06CUB03 | GPCSL06CSB03 |
| 50mm x 25mm Angled Slimline Shuttered Module - White | GPCSLA62UB03 | GPCSLA62SB03 |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Category 5e Cross Connect Tower Units and Patch Cord

The tower mount frame provides a modular, high density, cross-connect and cable management system. The base tower is supplied as a 288 pair unit but the capacity can be increased using additional extension frames. Tower units are supplied with wiring bases and connector blocks for 288 pair.

| Description | Part Number |
|---|---|
| Cat5e 110 Tower, 300 pair mounting frame | GPC110TWR300P |
| Cat5e 110 Tower, 300 pair extension mounting frame | GPC110TWR300PE |

Cross-connect patch cords are available in 110 to 110 style or 110 to RJ45 style.

| Description | 110 – 110 | 110 – RJ45 |
|---|---|---|
| Cross Connect Patch Cord - 1.0m | GPC110110PC010 | GPC1101RJ4PC010 |
| Cross Connect Patch Cord - 1.5m | GPC110110PC015 | GPC1101RJ4PC015 |
| Cross Connect Patch Cord - 2.0m | GPC110110PC020 | GPC1101RJ4PC020 |
| Cross Connect Patch Cord - 3.0m | GPC110110PC030 | GPC1101RJ4PC030 |
| Cross Connect Patch Cord - 4.0m | GPC110110PC040 | GPC1101RJ4PC040 |
| Cross Connect Patch Cord - 5.0m | GPC110110PC050 | GPC1101RJ4PC050 |

## Category 5e Wiring Base

**Wiring Base -** The Category 5e 110-wiring base can be supplied as a 50, 100 or 300 pair version, with or without legs. It can also be supplied rack mounted as a 100, 200 or 300 pair version. Designation labels are included with the bases.

**50 Pair Wiring Base Kits -** A typical kit for a 50 pair wiring base includes a basic wiring base and 12 off 4 pair connector blocks. A typical kit for a rack mounted 100 pair wiring base includes 2 off 50 pair wiring base, 25 off 4 pair connector blocks and 5 off 5 pair connector blocks.

**Connector Block -**The connector can be supplied as a 4 or 5 pair version and is specifically designed to exceed Category 5e performance. It has a robust design and is colour coded for easy identification. The connector is supplied in bags of 10.

| Description | Part Number |
|---|---|
| Category 5e 110 wiring base 50 pair with legs | GPC110WB50PL |
| Category 5e 110 wiring base 50 pair without legs | GPC110WB50P |
| Category 5e 110 wiring base 50 pair with legs, Kit | GPC110WB50PLK |
| Category 5e 110 wiring base 50 pair without legs, Kit | GPC110WB50PK |
| Category 5e 110 wiring base 100 pair with legs | GPC110WB100PL |
| Category 5e 110 wiring base 100 pair without legs | GPC110WB100P |
| Category 5e 110 wiring base 100 pair with legs, Kit | GPC110WB100PLK |
| Category 5e 110 wiring base 100 pair without legs, Kit | GPC110WB100PK |
| Category 5e 110 wiring base 300 pair with legs | GPC110WB300PL |
| Category 5e 110 wiring base 300 pair without legs | GPC110WB300P |
| Category 5e 110 wiring base 300 pair with legs, Kit | GPC110WB300PLK |
| Category 5e 110 wiring base 300 pair without legs, Kit | GPC110WB300PK |
| Category 5e 110 wiring base 100 pair rack mounted, Kit | GPC110WB100PRK |
| Category 5e 110 wiring base 200 pair rack mounted, Kit | GPC110WB200PRK |
| Category 5e 110 wiring base 300 pair rack mounted, Kit | GPC110WB300PRK |
| Category 5e 110 Connector Block – 4 Pair | GPC110CB4P |
| Category 5e 110 Connector Block – 5 Pair | GPC110CB5P |
| Vertical Cable Organiser for 110 Tower | CMV110TWR |
| Vertical Cable Organiser Extension for 110 Tower | CMV110TWRE |

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The most up to date datasheets can be found at **www.brand-rex.com/datasheet**
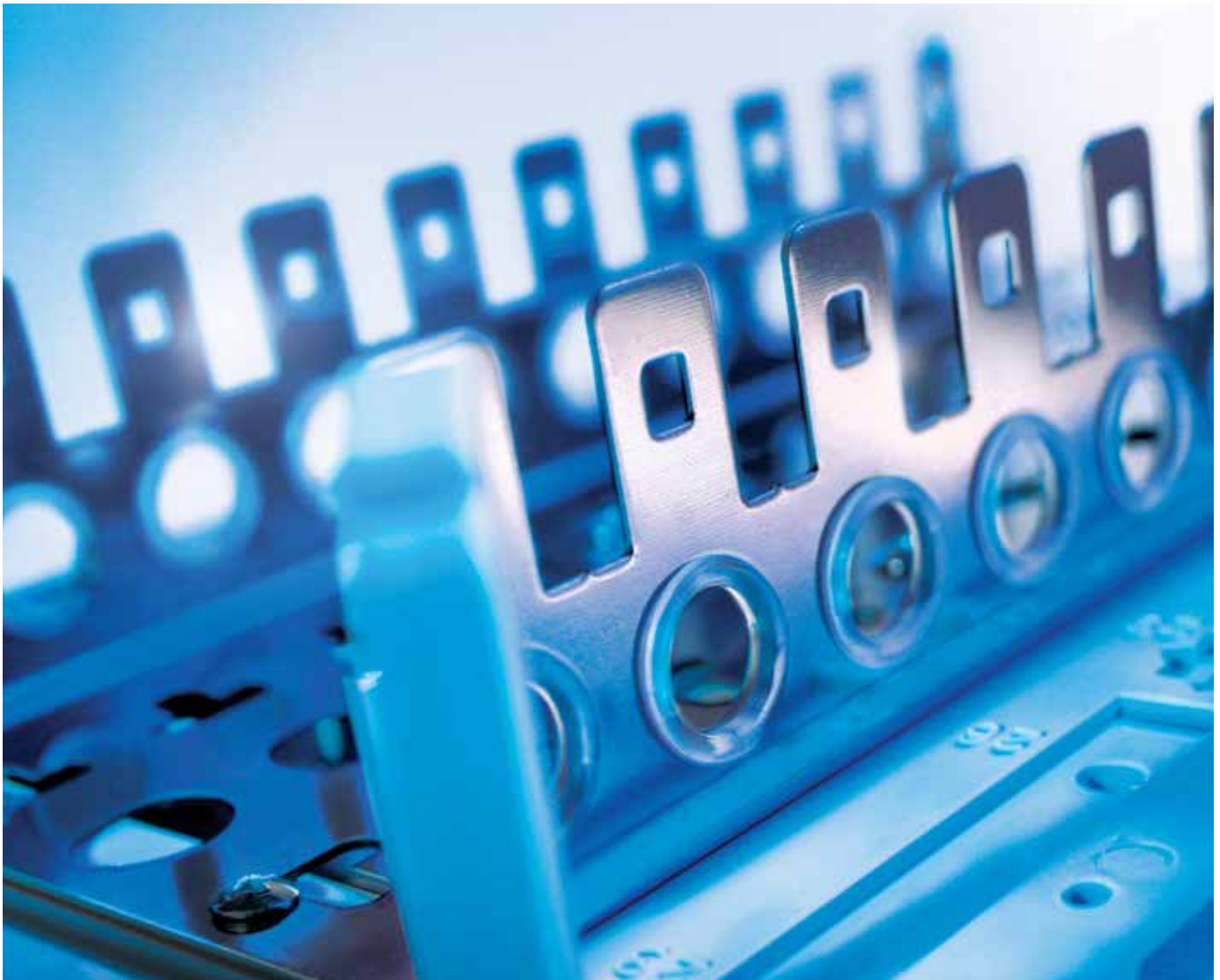
**BRAND-REX VOICE SYSTEM
(CATEGORY 3 - CLASS C)**

The Brand-Rex Voice System is a comprehensive system of high quality VOICE products forming part of the Brand-Rex range and is therefore backed by a 25 year system warranty for total peace of mind

• Compact 1U 25 and 50 port voice panels that give maximum configurable connections at both front and rear.

• Category 3 voice cable for higher performance voice links.

• Network termination boxes (30 pair, 50 pair & 100 pair) plus 10 pair disconnection strips.

• A full range of accessories providing total installed voice solutions.

## VOICE Connectivity

Brand-Rex VOICE includes a range of surface mounted telecom boxes for multipair cable termination, surface mounted outlets, 50 x 25mm UK styled faceplate modules and line adaptor fly leads.

| Description | Part Number |
|---|---|
| Wall Mount Dist Box - 3 Block (150 x 104 x 55) | MMCWDBU03001 |
| Wall Mount Dist Box - 5 Block (129 x 160 x 90) | MMCWDBU05001 |
| Wall Mount Dist Box - 10 Block (318 x 209 x 122) | MMCWDBU10001 |
| Disconnection Block - 10 Pair | MMCDISU10PK001 |
| 10 Pair Disconnect Block Label Holder | MMCLBL10PU001 |

## 24 AWG U/UTP MultiPair Sheathed Cable

Brand-Rex VOICE cables consist of 0.51mm Polyolefin insulated conductors formed into one or more units of twisted pairs. The units are identified with coloured binders and are assembled to form the cable core. The core may be protected with one or more layers of dielectric material and is covered by a protective LSHF sheath.

**Table 1: Pair Colour Code**

| Pair Number | Colour Conductor 1 | Colour Conductor 2 |
|---|---|---|
| 1 | White | Blue |
| 2 | White | Orange |
| 3 | White | Green |
| 4 | White | Brown |
| 5 | White | Grey |
| 6 | Red | Blue |
| 7 | Red | Orange |
| 8 | Red | Green |
| 9 | Red | Brown |
| 10 | Red | Grey |
| 11 | Black | Blue |
| 12 | Black | Orange |
| 13 | Black | Green |
| 14 | Black | Brown |
| 15 | Black | Grey |
| 16 | Yellow | Blue |
| 17 | Yellow | Orange |
| 18 | Yellow | Green |
| 19 | Yellow | Brown |
| 20 | Yellow | Grey |
| 21 | Violet | Blue |
| 22 | Violet | Orange |
| 23 | Violet | Green |
| 24 | Violet | Brown |
| 25 | Violet | Grey |

**Table 2: Unit Binder Colour Code**

| Unit Number | Binding Colour | Pair Number (25 pair units) |
|---|---|---|
| 1 | Blue-White | 1-25 |
| 2 | Orange-White | 26-50 |
| 3 | Green-White | 51-75 |
| 4 | Brown-White | 76-100 |
| 5 | Grey-White | 101-125 |
| 6 | Blue-Red | 126-150 |
| 7 | Orange-Red | 151-175 |
| 8 | Green-Red | 176-200 |

**Product Part Numbering**

| | 25 Pair | 50 Pair | 100 Pair |
|---|---|---|---|
| Part Number | C3U25PRHF1 | C3U50PRHF1 | C3U100PRHF1 |
| Outer Sheath | LSHF | LSHF | LSHF |
| Cable Weight | 155 kg/km | 290 kg/km | 550 kg/km |
| Outer Diameter (nom) | 9.50mm | 13.0mm | 18.0mm |
| Sheath Colour | Grey RAL 7035 | Grey RAL 7035 | Grey RAL 7035 |
| Fire Safety Rating | IEC 60332-1 | IEC 60332-1 | IEC 60332-1 |

**Applicable Product Standards**
Category 3 ANSI/EIA/TIA 568C

## Unshielded Panels

The 19" rack mounted patch panel is available in 25 and 50 port versions, both have a slimline 1U footprint suitable for compact installations maximising rack space. These panels are supplied with cable ties, earth lead, cable manager, mounting bolts and short form instructions. The rear of the panel offers a choice of between 60 and 150 voice pairs to suit a variety of PBX (Private Branch eXchange) systems and direct line connections. This offers maximum flexibility for connection to both future and existing PBX installations.

**Applicable Product Standards**
Category 3 ANSI/EIA/TIA 568C

| Description | 25 Port | 50 Port |
|---|---|---|
| 4 Pin - Black | C5CPNLU254PKM | C5CPNLU504PKM |
| 4 Pin - Grey | C5CPNLU254PKM | C5CPNLU504PKM |
| 6 Pin - Black | CPCPNLU256PKM | CPCPNLU506PKM |

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**BRAND-REX COPPER
SYSTEMS ACCESSORIES**

• A comprehensive range of structured
  cabling system accessories to complement
  any Brand-Rex structured cabling system.

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## 48 Port 1U Snap in Jack Patch Panel

The 48 Port 1U Snap-in-Jack Patch Panel is ideally suited for data centre applications and installations where rack space is at a premium. The panel offers exceptional high density with the ability to accommodate up to 48 jacks within a 1U space on a 19" rack. Each panel is screened with port identification strip and also panel identification space to allow for easy port and panel identification. The product has a detachable front facia, allowing jacks to be removed from the front of the cabinet, and is supplied with an earthing point and a detachable cable manager. Jacks are sold separately.

| Description | Part Number |
|---|---|
| 48 Port 1U Snap in Jack Patch Panel | AC6JAKS000DC |

**Compatible System Products**

| Description | Part Number |
|---|---|
| 10G Shielded Tool Free Jack | AC6JAKS000 |
| Category 6 Shielded Tool Free Jack | C6CJAKS000DC |

## Snap-in-Jack Panels

The 19" Modular Panel is a rack mounted Snap-in-Jack panel that has been designed with a double skin to provide flush mounted jacks. The rear of the panel has been plated for grounding to the chassis on shielded systems. All outlets are numerically identified with an additional writable surface for ease of port naming.

| Description | 24 Port | 48 Port 3U |
|---|---|---|
| Modular Snap In Jack Panel - Black | MMCPNLX24SIJ2 | MMCPNLX48SIJ2 |
| Modular Snap In Jack Panel - Grey | MMCPNLX24SIJ8 | MMCPNLX48SIJ8 |
| Modular Panel Cable Manager - Black | MMCACCCMSIJ2 | |
| Modular Panel Cable Manager - Grey | MMCACCCMSIJ8 | |

*Note: Panels supplied empty, Snap-in-Jacks must be purchased separately.*

MMCACCCMSIJ2

## Snap-in-Jack Angled Panel

The Angled Snap-in-Jack Patch Panel is a 1U 24 Port Panel that facilitates cord routing directly into the rack vertical side management thus rendering horizontal cable managers redundant. The resultant increased rack density not only saves valuable space but also offers a panel that eases bending stresses on the cord while maximising performance. The design accommodates a separate rear cable manager to provide a strain relief feature for the simple routing of horizontal cabling and also allows for colour coded labelling.

| Description | Part Number |
|---|---|
| Angled Snap-in-Jack Panel / Cable Manager Assembly | MMCPNLX24SIJ2MAN |

**Compatible System Products**

| Description | Part Number |
|---|---|
| Augmented Category 6 Shielded Jack | AC6JAKS000DC |
| Augmented Category 6 Unshielded Jack (Tool-free) | AC6JAKU002 |
| Category 6 Unshielded Jack (Tool-free) | C6CJAKU002 |
| Category 6 Shielded Jack | C6CJAKS000DC |
| Category 5 Unshielded Jack (Tool-free) | GPCJAKU002 |
| Category 5 Unshielded Jack | GPCJAKU013LF |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## 24 Port Inline Snap-in-Jack Panels

The 19" inline Snap-in-Jack Patch Panel accommodates 24 ports within a 1U configuration and is compatible with all standard 19" racks and cabinets. All outlets are numerically identified with an additional writable surface allowing for ease of port naming. In addition to this, each panel has been designed with a cable management/ strain relief feature built into the rear. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

| Description | Part Number |
|---|---|
| 24 Port Inline Snap-in-Jack Panel | MMCPNLX24SIJ2MIL |
| 24 Port Inline Snap-in-Jack Panel | MMCPNLX24SIJ8MIL |

**Compatible System Products**

| Description | Part Number |
|---|---|
| Augmented Category 6 Shielded Jack (Tool-free) | AC6JAKS000DC |
| Augmented Category 6 Unshielded Jack (Tool-free) | AC6JAKU002 |
| Category 6 Unshielded Jack (Tool-free) | C6CJAKU002 |
| Category 6 Shielded Jack (Tool-free) | C6CJAKS000DC |
| Category 5 Unshielded Jack (Tool-free) | GPCJAKU002 |
| Category 5 Unshielded Jack (Lead Frame) | GPCJAKU013LF |

## 24 Port Coloured Insert Snap-in-Jack Panels

The 19" Snap-in-Jack Patch Panel that accommodates 24 ports within a 1U configuration and provides coloured inserts for individual port/service identification. The product is designed and supplied with a detachable rear cable manager and comes complete with black inserts with integrated dust cover already loaded into the panel as standard. Optional coloured inserts are available for purchase separately in a variety of colours allowing for individual port/service identification.

| Description | Part Number |
|---|---|
| Coloured Insert Snap-in-Jack Panel – Black | MMCPNLX24SIJ2DCI |
| Coloured Insert Snap-in-Jack Panel – Grey | MMCPNLX24SIJ8DCI |
| Insert with Dust Cover - Red | MMCACCINSDC1 |
| Insert with Dust Cover - Black | MMCACCINSDC2 |
| Insert with Dust Cover - White | MMCACCINSDC3 |
| Insert with Dust Cover - Blue | MMCACCINSDC4 |
| Insert with Dust Cover - Green | MMCACCINSDC5 |
| Insert with Dust Cover - Yellow | MMCACCINSDC6 |
| Snap-in-Jack Blank | MMCJAKBLK2 |
| Snap-in-Jack Blank | MMCJAKBLK3 |
| Retraction Tool | MMCIRT001 |

**Compatible System Products**

| Description | Part Number |
|---|---|
| 10GPlus Shielded Keystone Snap-in-Jack (Tool-free) | AC6JAKS000DC |
| 10GPlus Unshielded Jack (Tool-free) | AC6JAKU002 |
| Cat6Plus Unshielded Jack (Tool-free) | C6CJAKU002 |
| Cat6Plus Shielded Keystone Jack (Tool-free) | C6CJAKS000DC |
| GigaPlus Unshielded Jack (Tool-free) | GPCJAKU002 |
| GigaPlus Unshielded Jack (Lead Frame) | GPCJAKU013LF |

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## Blank Panels


MMCACCCM005


MMCACCCM004

1U and 2U blank panels are used to complete any installation in a cabinet.
Designed to complement the Brand-Rex range of patch panels, they provide a more aesthetically pleasing finish and offer improved user safety.

| Description | Black | Grey |
|---|---|---|
| 1U Rack Mounted Blank Panel | MMCACCCM004 | MMCACCCM104 |
| 2U Rack Mounted Blank Panel | MMCACCCM005 | MMCACCCM105 |

## Cable Management Accessories


MMCACCCM001


MMCACCCM006


MMCACCCM002

To ensure neat and tidy installations, a range of cable management products is available. These products are either 19" rack mounted or side mounted.

| Description | Black | Grey |
|---|---|---|
| 1U Rack Mounted - 5 ring | MMCACCCM001 | MMCACCCM101 |
| 1U Rack Mounted with brush | MMCACCCM006 | MMCACCCM106 |
| Side Mounted - Vertical | MMCACCCM002 | - |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BLOLITE | MICROBIO | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## Faceplates, Backboxes and Modules



MMCWDOUNI030    MMCWDOUNI070



MMCWDOUNI052    MMCWDOUNI042    MMCWDOUNI040



MMCWDO06C001    MMCWDOUNI062    MMCANG0623

Brand-Rex supplies a comprehensive range of plastic accessories to provide an outlet solution for wall, trunking and floorbox applications. These accessories have been designed to be used in conjunction with Brand-Rex Snap-in-Jacks.

All UK style faceplates are supplied with M3.5 mounting screws and are available in both modular or shuttered versions.

Backboxes can also be supplied to allow for retrofit application where outlets are required to be surface mounted.

Floorbox modules and blanks have been designed to clip into a 1.0 - 2.0mm thick plate with a standard 22 x 37mm floorbox cut-out.

| Description | Part Number |
|---|---|
| 25 x 50mm Shuttered Faceplate Module | MMCWDOUNI062 |
| 25 x 50mm Angled Faceplate Module | MMCANG0623 |
| 25 x 38mm Shuttered Floorbox Module | MMCWDO06C001 |
| 25 x 38mm Angled Floorbox Shuttered Module | MMCANG06C3 |
| 25 x 50mm Faceplate Blank | MMCWDOUNI042 |
| 25 x 38mm Floorbox Blank | MMCBLK06C3 |
| 50 x 50mm Faceplate Blank | MMCWDOUNI040 |
| 12.5 x 50mm Faceplate Blank | MMCWDOUNI052 |
| 86 x 86mm Single Port Shuttered Faceplate | MMCWDOUNI070 |
| 86 x 86mm Double Port Shuttered Faceplate | MMCWDOUNI071 |
| 86 x 86mm Single Gang Modular Faceplate | MMCWDOUNI030 |
| 86 x 147mm Double Gang Modular Faceplate | MMCWDOUNI031 |
| 32mm Deep, Single Gang Backbox | MMCSGBB32001 |
| 44mm Deep, Single Gang Backbox | MMCSGBB44001 |
| 32mm Deep, Double Gang Backbox | MMCDGBB32002 |
| 44mm Deep, Double Gang Backbox | MMCDGBB44002 |
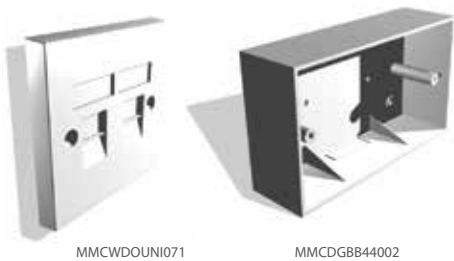


MMCWDOUNI071    MMCDGBB44002



MMCSGBB32001

| Description | Modules | | | | blanks | | | | back boxes | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MMCWDOUNI062 | MMCANG0623 | MMCWDO06C001 | MMCANG06C3 | MMCWDOUNI052 | MMCWDOUNI042 | MMCWDOUNI040 | MMCBLK06C3 | MMCSGBB32001 | MMCSGBB44001 | MMCDGBB32002 | MMCDGBB44002 |
| MMCWDOUNI030 | x | x | - | - | x | x | x | - | x | x | - | - |
| MMCWDOUNI031 | x | x | - | - | x | x | x | - | - | - | x | x |
| MMCWDOUNI070 | - | - | - | - | - | - | - | - | x | x | - | - |
| MMCWDOUNI071 | - | - | - | - | - | - | - | - | x | x | - | - |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Snap-in-Jack Modules and Dual Angled Snap-in-Jack Modules

Single and double Snap-in-Jack Modules have been designed to accept the standard Brand-Rex Snap-in-Jacks and are fully compatible with the 'Legrand Mosaic' and our continental UNI style faceplates. The Dual angled Snap-in-Jack module has been designed to accept two standard Snap-in-Jacks and is fully compatible with the standard 45 x 45mm aperture and our continental UNI style faceplates.

MMCUNILGD45001

MMCANGLGD45002

MMCANGDK2453

| Description | Part Number |
| --- | --- |
| 1 Way Snap-In Jack Module | MMCUNILGS45001 |
| 2 Way Snap-In Jack Module | MMCUNILGD45001 |
| Dual 45 x 45mm Angled Snap-in-Jack module | MMCANGLGD45001 |
| Angled Snap-in-Jack Module 45 x 45mm Single Port | MMCANGLGS45002 |
| Angled Snap-in-Jack Module 45 x 45mm Double Port | MMCANGLGD45002 |
| Keystone Snap-in-Jack Faceplate Module | MMCANGDK2453 |

## Single Port DIN Rail Snap-in-Jack Module

The DIN Rail Snap-in-Jack Module offers a connection point in the cabling subsystem and is suitable for deployment in residential, industrial and enterprise structured cabling systems. The module is designed to be easily snapped onto a DIN rail and it offers unrivalled usability and accessibility. Multiple modules can be aligned horizontally in a row and the angled direction of the jacks facilitates cord routing in a way that eases bending stresses while maximising performance.

| Description | Part Number |
| --- | --- |
| Single Port DIN Rail Snap-in-Jack Module | MMCDINSIJS8 |

**Compatible System Products**

| Description | Part Number |
| --- | --- |
| 10GPlus Shielded Snap-in-Jack – Tool-free | AC6JAKS000DC |
| 10GPlus Unshielded Jack – Tool-free | AC6JAKU002 |
| Cat6Plus Shielded Snap-in-Jack – Tool-free | C6CJAKS000DC |
| Cat6Plus Unshielded Snap-in-Jack – Tool-free | C6CJAKU002 |
| GigaPlus Unshielded Snap-in-Jack – Tool-free | GPCJAKU002 |
| GigaPlus Unshielded Snap-in-Jack (Lead Frame) | GPCJAKU013LF |

## Cable Organisers and Termination Tools

Within the standard Brand-Rex product range is a set of standard tools for the safe and efficient termination of copper cables. These tools are available for both LSA and 110 style IDC connectors.

Also available is a Brand-Rex Jack Gripper to hold Snap-in-Jacks during termination and the range of Snap-in-Jack blanks.

The cable management range complements the set of Cross-Connect components offered by Brand-Rex. The horizontal cable organisers can be supplied with or without legs and also as a 19" rack mounted version.

CMH110L

CMH110

MMCJH002

MMCJAKBLK2

MMCD914

**Compatible System Products**

| Description | Part Number |
| --- | --- |
| Horizontal Cable Organiser with Legs | CMH110L |
| Horizontal Cable Organiser without Legs | CMH110 |
| Horizontal Cable Organiser Rack Mounted | CMH110R |
| Vertical Cable Organiser for 110 Tower | CMV110TWR |
| Vertical Cable Organiser Extension for 110 Tower | CMV110TWRE |
| IDC Punchdown Tool Handle (blades sold separately) | MMCD914 |
| Punchdown Tool Blade - 110 | MMCACC110 |
| Punchdown Tool Blade - LSA | MMCACCLSA |
| Jack Gripper | MMCJH002 |
| Snap-in-Jack Blank | MMCJAKBLK2 |
| Snap-in-Jack Blank | MMCJAKBLK3 |

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10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BIOLITE | MICROBIO | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH
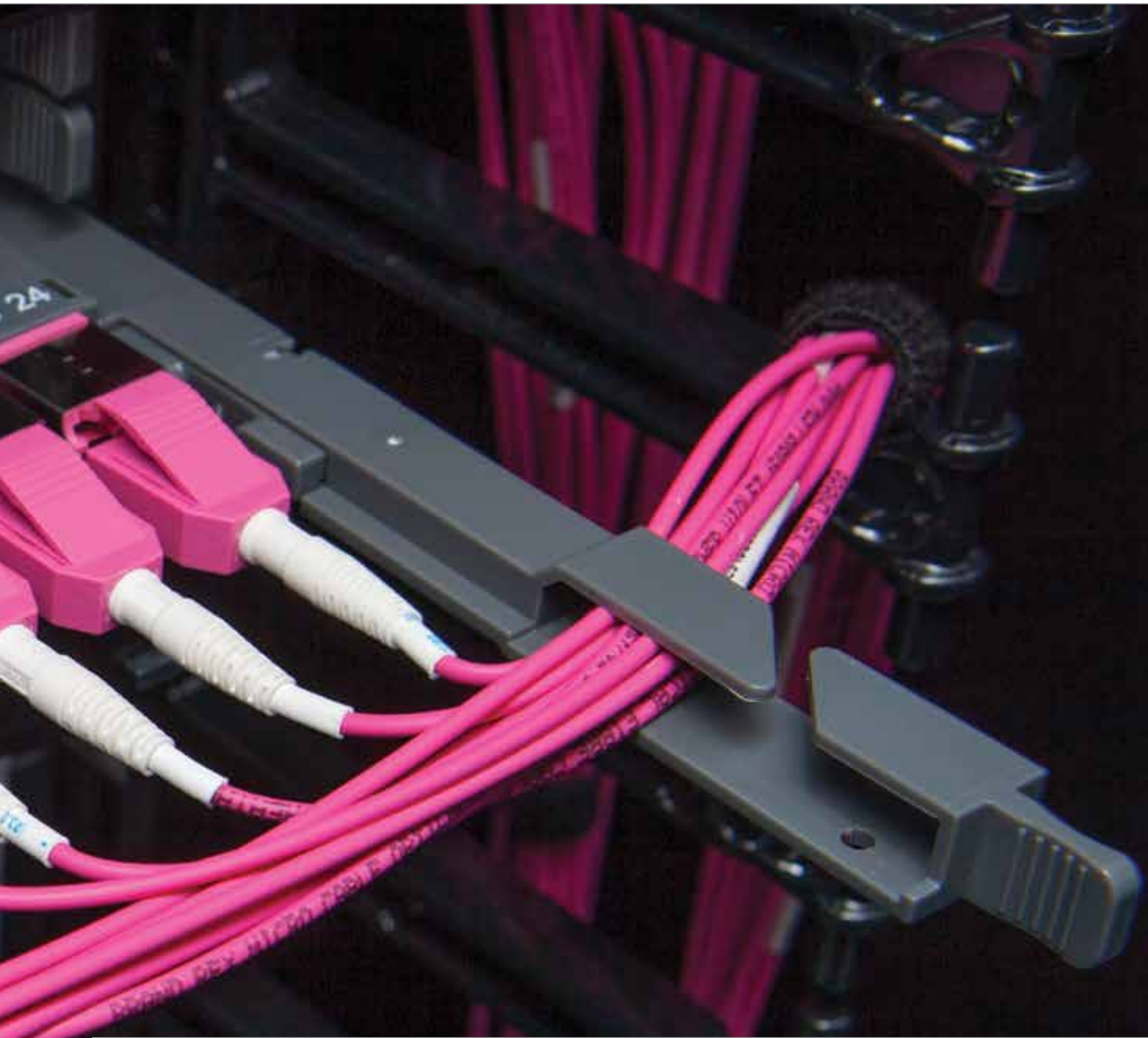
Brand-Rex is to the continued development of high quality optical cabling solutions for the future requirements of both LAN and WAN networks. Optical system benefits include:

• **Transmission Security** – As optical fibre emits no electromagnetic energy there is no opportunity to intercept transmissions remotely.

• **Bandwidth** – Optical fibre has a much greater data capacity than copper, carrying more data further.

• **Transmission Distance** – Optical systems have much lower attenuation than copper systems meaning that signals can be transmitted further.

• **No Risk of EMI or RFI** – Fibre optic cables being primarily glass have no risk of electromagnetic or radio frequency interference.

**Why Brand-Rex**

Brand-Rex offers a complete panel to panel solution, utilising all standard connectors and cable formats to deliver a high quality reliable optical solution for your LAN. The Brand-Rex solution includes a full range of HFFR-LS (halogen free flame retardant low smoke) tight buffered and loose tube cables, a comprehensive range of connectors, adaptors, pigtails and patch cords. The range also includes all the features that you would expect from a Brand-Rex system component. The complete LAN solution is covered by the 25 year Brand-Rex channel warranty only available from authorised Brand-Rex installation partners.

## CABLE SELECTION:

When selecting the correct cable for any installation the first question will be of fibre type. This is dependent upon the transmission distance and the protocol being adopted. Further on in this section is a key to transmission distances on the main fibre types for 1Gb and 10 Gb Ethernet applications.

With the choice of fibre type complete, the selection of cable construction must be made. There are several key questions that must be answered in determining cable selection.

### Fibre Count -
**How many fibres are required?**
This should take into account future demand and allow an element of redundancy. The cost of installation and associated down time will generally outweigh the cost of additional fibre on day one.

Additionally, good practice should be taken into consideration. A large, high fibre count cable carrying the majority of a company's data generates a larger risk than several lower fibre count cables, should any cable damage occur. Diversity in routing should also be considered in answering this question.

### Cable Properties –
**What type of cable is required?**
The prime function of the cable is to provide a safe path for the fibre during and post installation. There are a wide variety of cable types to choose from depending on how and where the cable is to be installed.

A summary of the main construction variants and their intended usage is given below.

## Sheath Options:
**Universal Cables**
These cables are designed for use both internally and externally.

They have a Low Smoke Halogen Free (LSHF) compound sheath that reduces the emission of toxic fumes and reduces the spread of fire.

**Outdoor Cables**
These cables are designed only for external use. They have a Low Density Polyethylene sheath that makes the cable lighter than the equivalent LSHF version. This combined with reduced weight makes Outdoor Cables more suited for the longer pulled runs into which they are generally installed. Outdoor Cables may enter buildings, however they must not pass more than 3m into the building dependant on local regulations.

## Cable Options:
**Premise Distribution (PDC) Cables**
These cables are based on a 900 μm tight buffered element and are generally installed in the backbone of a building network and direct terminated at a consolidation point. Brand-Rex PDC cables are manufactured in our state of the art UK based factory and consist of up to 24 individual tight buffered elements and distributed strength members. The product is then sheathed with a LSHF compound making it suitable for internal and external applications.

**Breakout and Patch Cables**
To produce the building block for breakout cables, a 900 μm tight buffered element is sheathed with an additional layer of LSHF compound over a layer of aramid yarns. This forms a simplex sub unit that can be used in the production of optical patch cords or used for fibre to the desk (FTTD) applications; additionally it forms the base unit for the breakout cables.

## Loose Tube Cables
Loose tube cables provide for higher fibre counts than are commonly available in tight buffered element based products such as PDC and breakout cables. They can generally be installed as building or campus links and are available in a variety of constructions offering different mechanical performance.

The building block of a loose tube cable is a PBT tube that contains up to 24 individually coloured optical fibres suspended in a gel material to provide protection and prevent water ingress. These gel filled loose tubes are used to produce either Unitube or Multi Loose Tube cables.

Brand-Rex loose tube cables are manufactured in our UK based optical facility and are available in 4 standard variants;
1. Duct Grade
2. Rodent Resistant Glass Armoured
3. Direct Burial Grade – Single Sheath
4. Direct Burial Grade – Twin Sheath

All 4 variants are available as either Unitube or Multi Loose tube cable. Unitube products are available with up to 24 fibres and Multi Loose Tube products are available with up to 216 fibres as standard, although higher fibre counts are available on request.

The Unitube products take a single gel filled loose tube and apply the relevant armouring and then either a Universal LSHF sheath or a Polyethylene outdoor sheath. The Multi Loose Tube products take up to 18 gel filled loose tubes around a glass central strength member before adding the relevant armouring and either a Universal LSHF sheath or a Polyethylene outdoor sheath.

The tables below describe the standard fibres supplied by Brand-Rex that comply with or exceed ISO/IEC 11801 and EN50173-1 and EN50173-2 requirements, for use in high speed LAN, MAN, WAN data and telecom networks. Specific Fibre Types to customer specification are available on request.

| Part Number Identifier | 062 | 050 | OM3 | OM4 |
|---|---|---|---|---|
| IEC 60793-2 Category | 10-A1b | 10-A1a.1 | 10-A1a.2 | 10-A1a.3 |
| ITU-T Recommendation | n/a | G.651.1 | G.651.1 | G.651.1 |
| ISO / IEC 11801 Category | OM1 | OM2 | OM3 | OM4 |

| Part Number Identifier | 008 | 108 | 208 |
|---|---|---|---|
| IEC 60793-2 Category | 50-B1.3 | 50-B6_a | 50-B6_a |
| ITU-T Recommendation | G.652D | G.657.A1 | G.657.A2 |
| ISO / IEC 11801 Category | OS1/OS2 | OS1/OS2 | OS1/OS2 |

## DISTRIBUTION CABLES

FibrePlus distribution cables are based around standard 900 μm tight buffered element which offers excellent environmental performance.
The standard range of distribution cables is available with up to 24 fibres and the cables are designed for use in building backbone applications. Cable can be installed in cable conduits by pulling or alternatively can be laid in roof / floor voids.

The FibrePlus distribution cable range has a Low Smoke Halogen Free sheath and mechanical strength is derived from strength members surrounding the multiple tight buffered cores.

**Breakout and patch cord cables**
FibrePlus breakout cables are based on standard 2.80mm single fibre cable sub units and are designed for use in building backbone applications or for cross connections in equipment rooms with suitable terminations. The cables are designed to be pulled into conduits or alternatively can be placed in floor / roof void cable trays.

The single fibre cable sub unit consists of a 900 μm tight buffered fibre surrounded with aramid yarns and a Low Smoke Halogen Free sheath. The breakout cable takes these sub unit, and adds additional aramid strength members plus an outer Low Smoke Halogen Free sheath to give a metal-free robust and flexible breakout cable.

## Tight Buffered Premise Distribution Cables

For building backbone and horizontal distribution applications, the PDC cable range has been designed to be compact and yet offer excellent tensile performance making it suitable for a wide range of applications. All PDC cables are constructed around the 900μm tight buffered elements which are suitable for direct termination.

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 2 Fibre | GF062PDC02LU | GF050PDC02LU | GFOM3PDC02LU | GFOM4PDC02LU | GF008PDC02LU |
| 4 Fibre | GF062PDC04LU | GF050PDC04LU | GFOM3PDC04LU | GFOM4PDC04LU | GF008PDC04LU |
| 6 Fibre | GF062PDC06LU | GF050PDC06LU | GFOM3PDC06LU | GFOM4PDC06LU | GF008PDC06LU |
| 8 Fibre | GF062PDC08LU | GF050PDC08LU | GFOM3PDC08LU | GFOM4PDC08LU | GF008PDC08LU |
| 12 Fibre | GF062PDC12LU | GF050PDC12LU | GFOM3PDC12LU | GFOM4PDC12LU | GF008PDC12LU |
| 16 Fibre | GF062PDC16LU | GF050PDC16LU | GFOM3PDC16LU | GFOM4PDC16LU | GF008PDC16LU |
| 24 Fibre | GF062PDC24LU | GF050PDC24LU | GFOM3PDC24LU | GFOM4PDC24LU | GF008PDC24LU |

## Ruggedised Fibre Patch Cable
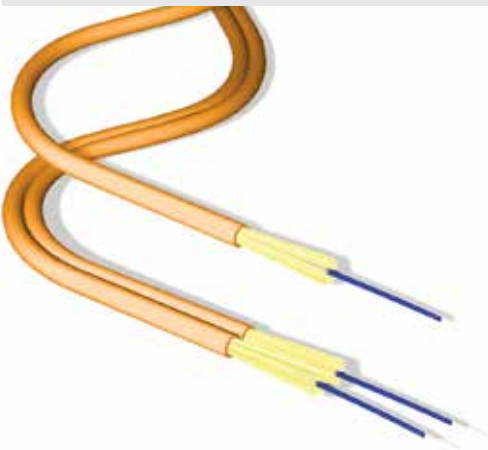
Ruggedised tight buffered patching cable is used in the manufacture of patch cords. The robust construction is designed for short run indoor patching or where frequent handling is likely such as in equipment rooms, wiring closets and at user outlets. The cable is readily retained by industry standard connectors and can easily be made into a patch cord. The cable is colour coded for ease of identification during and post installation and comes in both single fibre (SFC) and duplex fibre (ZIP) constructions.

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 1 Fibre | HF062SFC01L | HF050SFC01L | HFOM3SFC01L | HFOM4SFC01L | HF008SFC01L |
| 2 Fibre | HF062ZIP02L | HF050ZIP02L | HFOM3ZIP02L | HFOM4ZIP02L | HF008ZIP02L |

## Ruggedised Duplex Breakout Cable
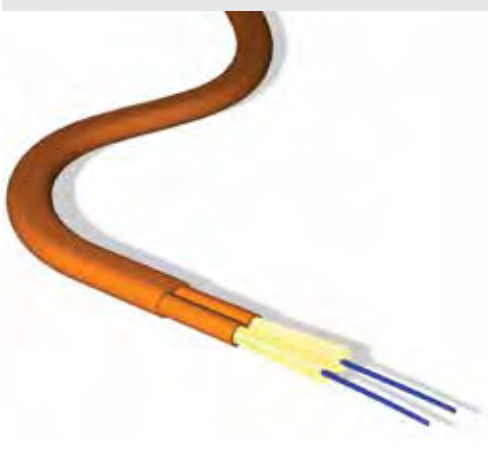
The ruggedised duplex fibre cable is the building block for ruggedised pigtail and patch cords. The robust construction is designed for short run indoor patching or where frequent handling is likely such as in equipment rooms, wiring closets and at user outlets.

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 2 Fibre | HF062DUP02L | HF050DUP02L | HFOM3DUP02L | HFOM4DUP02L | HF008DUP02L |

O62    050  OM3  OM4    008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## LOOSE TUBE CABLES

FibrePlus loose tube cables are available in unitube or multi loose tube constructions.

Multi loose tube cables are available as standard in 6 x 4 fibre per tube, 6 x 12 fibre per tube, 5 x 12 fibre per tube, 8 x 12 fibre per tube, 12 x 12 fibre per tube and 18 x 12 fibre per tubes options, offering up to 216 fibres. The three standard variants are a general duct grade cable; a glass yarn armoured cable and a corrugated steel tape armoured direct burial cable.

Loose tube cables are designed for use in building or campus backbone applications and can be installed by blowing, winching or pulling into existing sub ducts or cable conduits. Steel tape armoured products can also be direct buried.

Bespoke loose tube cables to client specifications with additional features or modified mechanical performance are available on request subject to MOQ and lead-time.

10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BIOLITE | MICROBIO | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## Mini Unitube Cable

For short run backbone applications, the Mini Unitube cable range has been designed to be lightweight, flexible, compact and completed with a white sheath to be discrete in the home. The 2 and 4 fibre variants are constructed with a 1.9mm gel filled loose tube, layer of glass yarns and a Low Smoke Halogen Free (LSHF) outer sheath.

|  | OM1 | OM2 | OM3 | 0M4 | OS1/OS2 |
|---|---|---|---|---|---|
| 2 Fibre | HF062UNI1902LU | HF050UNI1902LU | HFOM3UNI1902LU | HFOM4UNI1902LU | HF008UNI1902LU |
| 4 Fibre | HF062UNI1904LU | HF050UNI1904LU | HFOM3UNI1904LU | HFOM4UNI1904LU | HF008UNI1904LU |

## UDU and UDE
### Duct Grade Unitube Cables

For building backbone applications, the duct grade unitube cable range has been designed to be lightweight and compact. The 4-12 fibre product variants are constructed around a 2.90mm gel filled loose tube, whereas the 16-24 fibre variants use a 4.00mm loose tube.

### UDU - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | GF062UNI04LU | GF050UNI04LU | GFOM3UNI04LU | GFOM4UNI04LU | GF008UNI04LU |
| 6 Fibre | GF062UNI06LU | GF050UNI06LU | GFOM3UNI06LU | GFOM4UNI06LU | GF008UNI06LU |
| 8 Fibre | GF062UNI08LU | GF050UNI08LU | GFOM3UNI08LU | GFOM4UNI08LU | GF008UNI08LU |
| 12 Fibre | GF062UNI12LU | GF050UNI12LU | GFOM3UNI12LU | GFOM4UNI12LU | GF008UNI12LU |
| 16 Fibre (2 x Bundles) | GF062UNI16LU | GF050UNI16LU | GFOM3UNI16LU | GFOM4UNI16LU | GF008UNI16LU |
| 24 Fibre (2 x Bundles) | GF062UNI24LU | GF050UNI24LU | GFOM3UNI24LU | GFOM4UNI24LU | GF008UNI24LU |

### UDE - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | GF062UNI04NM | GF050UNI04NM | GFOM3UNI04NM | GFOM4UNI04NM | GF008UNI04NM |
| 6 Fibre | GF062UNI06NM | GF050UNI06NM | GFOM3UNI06NM | GFOM4UNI06NM | GF008UNI06NM |
| 8 Fibre | GF062UNI08NM | GF050UNI08NM | GFOM3UNI08NM | GFOM4UNI08NM | GF008UNI08NM |
| 12 Fibre | GF062UNI12NM | GF050UNI12NM | GFOM3UNI12NM | GFOM4UNI12NM | GF008UNI12NM |
| 16 Fibre (2 x Bundles) | GF062UNI16NM | GF050UNI16NM | GFOM3UNI16NM | GFOM4UNI16NM | GF008UNI16NM |
| 24 Fibre (2 x Bundles) | GF062UNI24NM | GF050UNI24NM | GFOM3UNI24NM | GFOM4UNI24NM | GF008UNI24NM |

O62    050  OM3  OM4    008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## URU and URE
### Glass Yarn Armoured Unitube Cable

For applications where protection from rodent attack is required, this product range offers level 2 rodent protection in the form of glass roving armour which deters rodents from chewing on optical cables. The 4-12 fibre product variants are constructed around a 2.90mm gel filled loose tube, whereas the 16-24 fibre variants use a 4.00mm loose tube.

### URU - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | GF062UNI04RRLU | GF050UNI04RRLU | GFOM3UNI04RRLU | GFOM4UNI04RRLU | GF008UNI04RRLU |
| 6 Fibre | GF062UNI06RRLU | GF050UNI06RRLU | GFOM3UNI06RRLU | GFOM4UNI06RRLU | GF008UNI06RRLU |
| 8 Fibre | GF062UNI08RRLU | GF050UNI08RRLU | GFOM3UNI08RRLU | GFOM4UNI08RRLU | GF008UNI08RRLU |
| 12 Fibre | GF062UNI12RRLU | GF050UNI12RRLU | GFOM3UNI12RRLU | GFOM4UNI12RRLU | GF008UNI12RRLU |
| 16 Fibre (2 x Bundles) | GF062UNI16RRLU | GF050UNI16RRLU | GFOM3UNI16RRLU | GFOM4UNI16RRLU | GF008UNI16RRLU |
| 24 Fibre (2 x Bundles) | GF062UNI24RRLU | GF050UNI24RRLU | GFOM3UNI24RRLU | GFOM4UNI24RRLU | GF008UNI24RRLU |

### URE - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | GF062UNI04RRNM | GF050UNI04RRNM | GFOM3UNI04RRNM | GFOM4UNI04RRNM | GF008UNI04RRNM |
| 6 Fibre | GF062UNI06RRNM | GF050UNI06RRNM | GFOM3UNI06RRNM | GFOM4UNI06RRNM | GF008UNI06RRNM |
| 8 Fibre | GF062UNI08RRNM | GF050UNI08RRNM | GFOM3UNI08RRNM | GFOM4UNI08RRNM | GF008UNI08RRNM |
| 12 Fibre | GF062UNI12RRNM | GF050UNI12RRNM | GFOM3UNI12RRNM | GFOM4UNI12RRNM | GF008UNI12RRNM |
| 16 Fibre (2 x Bundles) | GF062UNI16RRNM | GF050UNI16RRNM | GFOM3UNI16RRNM | GFOM4UNI16RRNM | GF008UNI16RRNM |
| 24 Fibre (2 x Bundles) | GF062UNI24RRNM | GF050UNI24RRNM | GFOM3UNI24RRNM | GFOM4UNI24RRNM | GF008UNI24RRNM |

## USU and USE
### Steel Tape Armoured Unitube Cables

For direct burial campus backbone applications, the steel tape armoured unitube cable range has been designed to be compact and yet offer excellent tensile and crush performance making it suitable for a wide range of applications. All USU and USE steel tape armoured unitube cables are constructed around the 4.00mm gel filled PBT loose buffer tube. The 16-24 fibre variants are supplied with 2 bundles within the loose tube.

### USU - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | GF062UNI04STALU | GF050UNI04STALU | GFOM3UNI04STALU | GFOM4UNI04STALU | GF008UNI04STALU |
| 6 Fibre | GF062UNI06STALU | GF050UNI06STALU | GFOM3UNI06STALU | GFOM4UNI06STALU | GF008UNI06STALU |
| 8 Fibre | GF062UNI08STALU | GF050UNI08STALU | GFOM3UNI08STALU | GFOM4UNI08STALU | GF008UNI08STALU |
| 12 Fibre | GF062UNI12STALU | GF050UNI12STALU | GFOM3UNI12STALU | GFOM4UNI12STALU | GF008UNI12STALU |
| 16 Fibre | GF062UNI16STALU | GF050UNI16STALU | GFOM3UNI16STALU | GFOM4UNI16STALU | GF008UNI16STALU |
| 24 Fibre | GF062UNI24STALU | GF050UNI24STALU | GFOM3UNI24STALU | GFOM4UNI24STALU | GF008UNI24STALU |

### USE - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | GF062UNI04STANM | GF050UNI04STANM | GFOM3UNI04STANM | GFOM4UNI04STANM | GF008UNI04STANM |
| 6 Fibre | GF062UNI06STANM | GF050UNI06STANM | GFOM3UNI06STANM | GFOM4UNI06STANM | GF008UNI06STANM |
| 8 Fibre | GF062UNI08STANM | GF050UNI08STANM | GFOM3UNI08STANM | GFOM4UNI08STANM | GF008UNI08STANM |
| 12 Fibre | GF062UNI12STANM | GF050UNI12STANM | GFOM3UNI12STANM | GFOM4UNI12STANM | GF008UNI12STANM |
| 16 Fibre (2 x Bundles) | GF062UNI16STANM | GF050UNI16STANM | GFOM3UNI16STANM | GFOM4UNI16STANM | GF008UNI16STANM |
| 24 Fibre (2 x Bundles) | GF062UNI24STANM | GF050UNI24STANM | GFOM3UNI24STANM | GFOM4UNI24STANM | GF008UNI24STANM |

| O62 | 050 | OM3 | OM4 | 008 | 108 | 208 |

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## UTU and UTE
### Twin Sheath Steel Tape Armoured Unitube Cables

For direct burial campus backbone applications, the twin sheath universal steel tape armoured unitube cable range has been designed to be compact and yet offer excellent tensile and crush performance making it suitable for a wide range of applications. The 4-12 fibre product variants are constructed around a 2.90mm gel filled loose tube, whereas the 16-24 fibre variants use a 4.00mm loose tube.

### UTU - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | GF062UNI04LSTALU | GF050UNI04LSTALU | GFOM3UNI04LSTALU | GFOM4UNI04LSTALU | GF008UNI04LSTALU |
| 6 Fibre | GF062UNI06LSTALU | GF050UNI06LSTALU | GFOM3UNI06LSTALU | GFOM4UNI06LSTALU | GF008UNI06LSTALU |
| 8 Fibre | GF062UNI08LSTALU | GF050UNI08LSTALU | GFOM3UNI08LSTALU | GFOM4UNI08LSTALU | GF008UNI08LSTALU |
| 12 Fibre | GF062UNI12LSTALU | GF050UNI12LSTALU | GFOM3UNI12LSTALU | GFOM4UNI12LSTALU | GF008UNI12LSTALU |
| 16 Fibre (2 x Bundles) | GF062UNI16LSTALU | GF050UNI16LSTALU | GFOM3UNI16LSTALU | GFOM4UNI16LSTALU | GF008UNI16LSTALU |
| 24 Fibre (2 x Bundles) | GF062UNI24LSTALU | GF050UNI24LSTALU | GFOM3UNI24LSTALU | GFOM4UNI24LSTALU | GF008UNI24LSTALU |

### UTE - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | GF062UNI04NMSTANM | GF050UNI04NMSTANM | GFOM3UNI04NMSTANM | GFOM4UNI04NMSTANM | GF008UNI04NMSTANM |
| 6 Fibre | GF062UNI06NMSTANM | GF050UNI06NMSTANM | GFOM3UNI06NMSTANM | GFOM4UNI06NMSTANM | GF008UNI06NMSTANM |
| 8 Fibre | GF062UNI08NMSTANM | GF050UNI08NMSTANM | GFOM3UNI08NMSTANM | GFOM4UNI08NMSTANM | GF008UNI08NMSTANM |
| 12 Fibre | GF062UNI12NMSTANM | GF050UNI12NMSTANM | GFOM3UNI12NMSTANM | GFOM4UNI12NMSTANM | GF008UNI12NMSTANM |
| 16 Fibre (2 x Bundles) | GF062UNI16NMSTANM | GF050UNI16NMSTANM | GFOM3UNI16NMSTANM | GFOM4UNI16NMSTANM | GF008UNI16NMSTANM |
| 24 Fibre (2 x Bundles) | GF062UNI24NMSTANM | GF050UNI24NMSTANM | GFOM3UNI24NMSTANM | GFOM4UNI24NMSTANM | GF008UNI24NMSTANM |

## Universal MDU 01 and External MDE 01
### Duct Grade Multi Loose Tube Cable

For applications where a higher tensile load is required versus that offered by unitube constructions, the universal product range offers compact low fibre count duct grade cable. The product range consists of up to 6 x 2.1mm diameter loose tubes containing up to 4 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MDU 01 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | HF062S4WLU4FT | HF050S4WLU4FT | HFOM3S4WLU4FT | HFOM4S4WLU4FT | HF008S4WLU4FT |
| 8 Fibre | HF062S8WLU4FT | HF050S8WLU4FT | HFOM3S8WLU4FT | HFOM4S8WLU4FT | HF008S8WLU4FT |
| 12 Fibre | HF062S12WLU4FT | HF050S12WLU4FT | HFOM3S12WLU4FT | HFOM4S12WLU4FT | HF008S12WLU4FT |
| 16 Fibre | HF062S16WLU4FT | HF050S16WLU4FT | HFOM3S16WLU4FT | HFOM4S16WLU4FT | HF008S16WLU4FT |
| 20 Fibre | HF062S20WLU4FT | HF050S20WLU4FT | HFOM3S20WLU4FT | HFOM4S20WLU4FT | HF008S20WLU4FT |
| 24 Fibre | HF062S24WLU4FT | HF050S24WLU4FT | HFOM3S24WLU4FT | HFOM4S24WLU4FT | HF008S24WLU4FT |

### MDE 01 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | HF062S4WNM4FT | HF050S4WNM4FT | HFOM3S4WNM4FT | HFOM4S4WNM4FT | HF008S4WNM4FT |
| 8 Fibre | HF062S8WNM4FT | HF050S8WNM4FT | HFOM3S8WNM4FT | HFOM4S8WNM4FT | HF008S8WNM4FT |
| 12 Fibre | HF062S12WNM4FT | HF050S12WNM4FT | HFOM3S12WNM4FT | HFOM4S12WNM4FT | HF008S12WNM4FT |
| 16 Fibre | HF062S16WNM4FT | HF050S16WNM4FT | HFOM3S16WNM4FT | HFOM4S16WNM4FT | HF008S16WNM4FT |
| 20 Fibre | HF062S20WNM4FT | HF050S20WNM4FT | HFOM3S20WNM4FT | HFOM4S20WNM4FT | HF008S20WNM4FT |
| 24 Fibre | HF062S24WNM4FT | HF050S24WNM4FT | HFOM3S24WNM4FT | HFOM4S24WNM4FT | HF008S24WNM4FT |

O62   050  OM3  OM4   008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Universal MDU 06 and External MDE 06
### Duct Grade Multi Loose Tube Cable

For building and campus backbone applications where higher fibre counts are required, the product range offers a compact duct grade cable. The product range consists of up to 5 x 2.5mm diameter loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MDU 06 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 12 Fibre | GF062S12WLU | GF050S12WLU | GFOM3S12WLU | GFOM4S12WLU | GF008S12WLU |
| 24 Fibre | GF062S24WLU | GF050S24WLU | GFOM3S24WLU | GFOM4S24WLU | GF008S24WLU |
| 36 Fibre | GF062S36WLU | GF050S36WLU | GFOM3S36WLU | GFOM4S36WLU | GF008S36WLU |
| 48 Fibre | GF062S48WLU | GF050S48WLU | GFOM3S48WLU | GFOM4S48WLU | GF008S48WLU |
| 60 Fibre | GF062S60WLU | GF050S60WLU | GFOM3S60WLU | GFOM4S60WLU | GF008S60WLU |

### MDE 06 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 12 Fibre | GF062S12WNM | GF050S12WNM | GFOM3S12WNM | GFOM4S12WNM | GF008S12WNM |
| 24 Fibre | GF062S24WNM | GF050S24WNM | GFOM3S24WNM | GFOM4S24WNM | GF008S24WNM |
| 36 Fibre | GF062S36WNM | GF050S36WNM | GFOM3S36WNM | GFOM4S36WNM | GF008S36WNM |
| 48 Fibre | GF062S48WNM | GF050S48WNM | GFOM3S48WNM | GFOM4S48WNM | GF008S48WNM |
| 60 Fibre | GF062S60WNM | GF050S60WNM | GFOM3S60WNM | GFOM4S60WNM | GF008S60WNM |

## Universal MDU 02 and External MDE 02
### Duct Grade Multi Loose Tube Cable

For building and campus backbone applications where higher fibre counts are required, the product range offers a compact duct grade cable. The product range consists of up to 6 x 2.5mm diameter loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MDU 02 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 72 Fibre | HF062S72WLU | HF050S72WLU | HFOM3S72WLU | HFOM4S72WLU | HF008S72WLU |

### MDE 02 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 72 Fibre | HF062S72WNM | HF050S72WNM | HFOM3S72WNM | HFOM4S72WNM | HF008S72WNM |

| 062 | | 050 | OM3 | OM4 | | 008 | 108 | 208 |

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Universal MDU 04 and External MDE 04
Duct Grade Multi Loose Tube Cable

For building and campus backbone applications where higher fibre counts are required, the product range offers a compact duct grade cable. The product range consists of up to 8 x 2.5mm diameter loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MDU 04 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 84 Fibre | HF062S84WLU | HF050S84WLU | HFOM3S84WLU | HFOM4S84WLU | HF008S84WLU |
| 96 Fibre | HF062S96WLU | HF050S96WLU | HFOM3S96WLU | HFOM4S96WLU | HF008S96WLU |

### MDE 04 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 84 Fibre | HF062S84WNM | HF050S84WNM | HFOM3S84WNM | HFOM4S84WNM | HF008S84WNM |
| 96 Fibre | HF062S96WNM | HF050S96WNM | HFOM3S96WNM | HFOM4S96WNM | HF008S96WNM |

## Universal MDU 03 and External MDE 03
Duct Grade Multi Loose Tube Cable

For higher fibre count building and campus backbone applications the product range delivers up to 144 fibres in a compact duct grade construction. The product range consists of up to 12 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a sheathed rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MDU 03 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 108 Fibre | HF062S108WLU | HF050S108WLU | HFOM3108WLU | HFOM4108WLU | HF008S108WLU |
| 120 Fibre | HF062S120WLU | HF050S120WLU | HFOM3S120WLU | HFOM4S120WLU | HF008S120WLU |
| 132 Fibre | HF062S132WLU | HF050S132WLU | HFOM3S132WLU | HFOM4S132WLU | HF008S132WLU |
| 144 Fibre | HF062S144WLU | HF050S144WLU | HFOM3S144WLU | HFOM4S144WLU | HF008S144WLU |

### MDE 03 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 108 Fibre | HF062S108WNM | HF050S108WNM | HFOM3108WNM | HFOM4108WNM | HF008S108WNM |
| 120 Fibre | HF062S120WNM | HF050S120WNM | HFOM3S120WNM | HFOM4S120WNM | HF008S120WNM |
| 132 Fibre | HF062S132WNM | HF050S132WNM | HFOM3S132WNM | HFOM4S132WNM | HF008S132WNM |
| 144 Fibre | HF062S144WNM | HF050S144WNM | HFOM3S144WNM | HFOM4S144WNM | HF008S144WNM |

O62    050  OM3 OM4    008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Universal MDU 05 and External MDE 05
Duct Grade Multi Loose Tube Cable

For higher fibre count building and campus backbone applications the product range delivers up to 216 fibres in a compact duct grade construction. The product range consists of up to 18 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a sheathed rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MDU 05 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 156 Fibre | HF062S156WLU | HF050S156WLU | HFOM3S156WLU | HFOM4S156WLU | HF008S156WLU |
| 168 Fibre | HF062S168WLU | HF050S168WLU | HFOM3S168WLU | HFOM4S168WLU | HF008S168WLU |
| 180 Fibre | HF062S180WLU | HF050S180WLU | HFOM3S180WLU | HFOM4S180WLU | HF008S180WLU |
| 192 Fibre | HF062S192WLU | HF050S192WLU | HFOM3S192WLU | HFOM4S192WLU | HF008S192WLU |
| 204 Fibre | HF062S204WLU | HF050S204WLU | HFOM3S204WLU | HFOM4S204WLU | HF008S204WLU |
| 216 Fibre | HF062S216WLU | HF050S216WLU | HFOM3S216WLU | HFOM4S216WLU | HF008S216WLU |

### MDE 05 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 156 Fibre | HF062S156WNM | HF050S156WNM | HFOM3156WNM | HFOM4156WNM | HF008S156WNM |
| 168 Fibre | HF062S168WNM | HF050S168WNM | HFOM3S168WNM | HFOM4S168WNM | HF008S168WNM |
| 180 Fibre | HF062S180WNM | HF050S180WNM | HFOM3S180WNM | HFOM4S180WNM | HF008S180WNM |
| 192 Fibre | HF062S192WNM | HF050S192WNM | HFOM3S192WNM | HFOM4S192WNM | HF008S192WNM |
| 204 Fibre | HF062S204WNM | HF050S204WNM | HFOM3S204WNM | HFOM4S204WNM | HF008S204WNM |
| 216 Fibre | HF062S216WNM | HF050S216WNM | HFOM3S216WNM | HFOM4S216WNM | HF008S216WNM |

## Universal MRU 01 and External MRE 01
Glass Yarn Armoured Rodent Resistant Multi Loose Tube Cable

For applications where protection from rodent attack is required and a higher tensile load is required, the universal MRR product range offers rodent protection in the form of glass roving armour which deters rodents from chewing on optical cables. The product range consists up to 6 x 2.10mm loose tubes containing up to 4 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MRU 01 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | HF062S4WRRLU4FT | HF050S4WRRLU4FT | HFOM3S4WRRLU4FT | HFOM4S4WRRLU4FT | HF008S4WRRLU4FT |
| 6 Fibre | HF062S8WRRLU4FT | HF050S8WRRLU4FT | HFOM3S8WRRLU4FT | HFOM4S8WRRLU4FT | HF008S8WRRLU4FT |
| 8 Fibre | HF062S12WRRLU4FT | HF050S12WRRLU4FT | HFOM3S12WRRLU4FT | HFOM4S12WRRLU4FT | HF008S12WRRLU4FT |
| 12 Fibre | HF062S16WRRLU4FT | HF050S16WRRLU4FT | HFOM3S16WRRLU4FT | HFOM4S16WRRLU4FT | HF008S16WRRLU4FT |
| 16 Fibre | HF062S20WRRLU4FT | HF050S20WRRLU4FT | HFOM3S20WRRLU4FT | HFOM4S20WRRLU4FT | HF008S20WRRLU4FT |
| 24 Fibre | HF062S24WRRLU4FT | HF050S24WRRLU4FT | HFOM3S24WRRLU4FT | HFOM4S24WRRLU4FT | HF008S24WRRLU4FT |

### MRE 01 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | HF062S4WRRNM4FT | HF050S4WRRNM4FT | HFOM3S4WRRNM4FT | HFOM4S4WRRNM4FT | HF008S4WRRNM4FT |
| 6 Fibre | HF062S8WRRNM4FT | HF050S8WRRNM4FT | HFOM3S8WRRNM4FT | HFOM4S8WRRNM4FT | HF008S8WRRNM4FT |
| 8 Fibre | HF062S12WRRNM4FT | HF050S12WRRNM4FT | HFOM3S12WRRNM4FT | HFOM4S12WRRNM4FT | HF008S12WRRNM4FT |
| 12 Fibre | HF062S16WRRNM4FT | HF050S16WRRNM4FT | HFOM3S16WRRNM4FT | HFOM4S16WRRNM4FT | HF008S16WRRNM4FT |
| 16 Fibre | HF062S20WRRNM4FT | HF050S20WRRNM4FT | HFOM3S20WRRNM4FT | HFOM4S20WRRNM4FT | HF008S20WRRNM4FT |
| 24 Fibre | HF062S24WRRNM4FT | HF050S24WRRNM4FT | HFOM3S24WRRNM4FT | HFOM4S24WRRNM4FT | HF008S24WRRNM4FT |

062 | 050 OM3 OM4 | 008 108 208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Universal MRU 02 and External MRE 02
Glass Yarn Armoured Rodent Resistant Multi Loose Tube Cable

For applications where protection from rodent attack and higher fibre counts are required, the universal product range offers rodent protection in the form of glass roving armour which deters rodents from chewing on optical cables. The product range consists up to 6 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MRU 02 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 12 Fibre | HF062S12WRRLU | HF050S12WRRLU | HFOM3S12WRRLU | HFOM4S12WRRLU | HF008S12WRRLU |
| 24 Fibre | HF062S24WRRLU | HF050S24WRRLU | HFOM3S24WRRLU | HFOM4S24WRRLU | HF008S24WRRLU |
| 36 Fibre | HF062S36WRRLU | HF050S36WRRLU | HFOM3S36WRRLU | HFOM4S36WRRLU | HF008S36WRRLU |
| 48 Fibre | HF062S48WRRLU | HF050S48WRRLU | HFOM3S48WRRLU | HFOM4S48WRRLU | HF008S48WRRLU |
| 60 Fibre | HF062S60WRRLU | HF050S60WRRLU | HFOM3S60WRRLU | HFOM4S60WRRLU | HF008S60WRRLU |
| 72 Fibre | HF062S72WRRLU | HF050S72WRRLU | HFOM3S72WRRLU | HFOM4S72WRRLU | HF008S72WRRLU |

### MRE 02 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 12 Fibre | HF062S12WRRNM | HF050S12WRRNM | HFOM3S12WRRNM | HFOM4S12WRRNM | HF008S12WRRNM |
| 24 Fibre | HF062S24WRRNM | HF050S24WRRNM | HFOM3S24WRRNM | HFOM4S24WRRNM | HF008S24WRRNM |
| 36 Fibre | HF062S36WRRNM | HF050S36WRRNM | HFOM3S36WRRNM | HFOM4S36WRRNM | HF008S36WRRNM |
| 48 Fibre | HF062S48WRRNM | HF050S48WRRNM | HFOM3S48WRRNM | HFOM4S48WRRNM | HF008S48WRRNM |
| 60 Fibre | HF062S60WRRNM | HF050S60WRRNM | HFOM3S60WRRNM | HFOM4S60WRRNM | HF008S60WRRNM |
| 72 Fibre | HF062S72WRRNM | HF050S72WRRNM | HFOM3S72WRRNM | HFOM4S72WRRNM | HF008S72WRRNM |

## Universal MRU 04 and External MRE 04
Glass Yarn Armoured Rodent Resistant Multi Loose Tube Cable

For applications where protection from rodent attack and higher fibre counts are required, the universal product range offers rodent protection in the form of glass roving armour which deters rodents from chewing on optical cables. The product range consists of up to 8 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MRU 04 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 84 Fibre | HF062S84WRRLU | HF050S84WRRLU | HFOM3S84WRRLU | HFOM4S84WRRLU | HF008S84WRRLU |
| 96 Fibre | HF062S96WRRLU | HF050S96WRRLU | HFOM3S96WRRLU | HFOM4S96WRRLU | HF008S96WRRLU |

### MRU 04 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 84 Fibre | HF062S84WRRNM | HF050S84WRRNM | HFOM3S84WRRNM | HFOM4S84WRRNM | HF008S84WRRNM |
| 96 Fibre | HF062S96WRRNM | HF050S96WRRNM | HFOM3S96WRRNM | HFOM4S96WRRNM | HF008S96WRRNM |

O62   050  OM3  OM4   008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Universal MRU 03 and External MRE 03
Glass Yarn Armoured Rodent Resistant Multi Loose Tube Cable



For applications where protection from rodent attack and higher fibre counts are required, the universal product range offers rodent protection in the form of glass roving armour that deters rodents from chewing on optical cables. The product range consists of up to 12 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a sheathed rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MRU 03 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| **108 Fibre** | HF062S108WRRLU | HF050S108WRRLU | HFOM3S108WRRLU | HFOM4S108WRRLU | HF008S108WRRLU |
| **120 Fibre** | HF062S120WRRLU | HF050S120WRRLU | HFOM3S120WRRLU | HFOM4S120WRRLU | HF008S120WRRLU |
| **132 Fibre** | HF062S132WRRLU | HF050S132WRRLU | HFOM3S132WRRLU | HFOM4S132WRRLU | HF008S132WRRLU |
| **144 Fibre** | HF062S144WRRLU | HF050S144WRRLU | HFOM3S144WRRLU | HFOM4S144WRRLU | HF008S144WRRLU |

### MRE 03 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| **108 Fibre** | HF062S108WRRNM | HF050S108WRRNM | HFOM3S108WRRNM | HFOM4S108WRRNM | HF008S108WRRNM |
| **120 Fibre** | HF062S120WRRNM | HF050S120WRRNM | HFOM3S120WRRNM | HFOM4S120WRRNM | HF008S120WRRNM |
| **132 Fibre** | HF062S132WRRNM | HF050S132WRRNM | HFOM3S132WRRNM | HFOM4S132WRRNM | HF008S132WRRNM |
| **144 Fibre** | HF062S144WRRNM | HF050S144WRRNM | HFOM3S144WRRNM | HFOM4S144WRRNM | HF008S144WRRNM |

## Universal MRU 05 and External MRE 05
Glass Yarn Armoured Rodent Resistant Multi Loose Tube Cable



For applications where protection from rodent attack and higher fibre counts are required, the universal product range offers rodent protection in the form of glass roving armour that deters rodents from chewing on optical cables. The product range consists of up to 18 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a sheathed rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking.

### MRU 05 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| **156 Fibre** | HF062S156WRRLU | HF050S156WRRLU | HFOM3S156WRRLU | HFOM4S156WRRLU | HF008S156WRRLU |
| **168 Fibre** | HF062S168WRRLU | HF050S168WRRLU | HFOM3S168WRRLU | HFOM4S168WRRLU | HF008S168WRRLU |
| **180 Fibre** | HF062S180WRRLU | HF050S180WRRLU | HFOM3S180WRRLU | HFOM4S180WRRLU | HF008S180WRRLU |
| **192 Fibre** | HF062S192WRRLU | HF050S192WRRLU | HFOM3S192WRRLU | HFOM4S192WRRLU | HF008S192WRRLU |
| **204 Fibre** | HF062S204WRRLU | HF050S204WRRLU | HFOM3S204WRRLU | HFOM4S204WRRLU | HF008S204WRRLU |
| **216 Fibre** | HF062S216WRRLU | HF050S216WRRLU | HFOM3S216WRRLU | HFOM4S216WRRLU | HF008S216WRRLU |

### MRE 05 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| **156 Fibre** | HF062S156WRRNM | HF050S156WRRNM | HFOM3S156WRRNM | HFOM4S156WRRNM | HF008S156WRRNM |
| **168 Fibre** | HF062S168WRRNM | HF050S168WRRNM | HFOM3S168WRRNM | HFOM4S168WRRNM | HF008S168WRRNM |
| **180 Fibre** | HF062S180WRRNM | HF050S180WRRNM | HFOM3S180WRRNM | HFOM4S180WRRNM | HF008S180WRRNM |
| **192 Fibre** | HF062S192WRRNM | HF050S192WRRNM | HFOM3S192WRRNM | HFOM4S192WRRNM | HF008S192WRRNM |
| **204 Fibre** | HF062S204WRRNM | HF050S204WRRNM | HFOM3S204WRRNM | HFOM4S204WRRNM | HF008S204WRRNM |
| **216 Fibre** | HF062S216WRRNM | HF050S216WRRNM | HFOM3S216WRRNM | HFOM4S216WRRNM | HF008S216WRRNM |

O62    050  OM3  OM4    008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BIOLITE | MICROBIO | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## Universal MSU 01 and External MSE 01
Direct Burial Steel Tape Armoured Multi Loose Tube Cable

For applications where a higher tensile load is required versus that offered by unitube constructions, this product range offers a compact low fibre count direct burial grade cable. The product range consists of up to 6 x 2.10mm loose tubes containing up to 4 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and a layer of corrugated steel tape armour provides additional crush resistance.

### MSU 01 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | HF062S4WSTALU4FT | HF050S4WSTALU4FT | HFOM3S4WSTALU4FT | HFOM4S4WSTALU4FT | HF008S4WSTALU4FT |
| 6 Fibre | HF062S8WSTALU4FT | HF050S8WSTALU4FT | HFOM3S8WSTALU4FT | HFOM4S8WSTALU4FT | HF008S8WSTALU4FT |
| 8 Fibre | HF062S12WSTALU4FT | HF050S12WSTALU4FT | HFOM3S12WSTALU4FT | HFOM4S12WSTALU4FT | HF008S12WSTALU4FT |
| 12 Fibre | HF062S16WSTALU4FT | HF050S16WSTALU4FT | HFOM3S16WSTALU4FT | HFOM4S16WSTALU4FT | HF008S16WSTALU4FT |
| 16 Fibre | HF062S20WSTALU4FT | HF050S20WSTALU4FT | HFOM3S20WSTALU4FT | HFOM4S20WSTALU4FT | HF008S20WSTALU4FT |
| 24 Fibre | HF062S24WSTALU4FT | HF050S24WSTALU4FT | HFOM3S24WSTALU4FT | HFOM4S24WSTALU4FT | HF008S24WSTALU4FT |

### MSE 01 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | HF062S4WSTANM4FT | HF050S4WSTANM4FT | HFOM3S4WSTANM4FT | HFOM4S4WSTANM4FT | HF008S4WSTANM4FT |
| 6 Fibre | HF062S8WSTANM4FT | HF050S8WSTANM4FT | HFOM3S8WSTANM4FT | HFOM4S8WSTANM4FT | HF008S8WSTANM4FT |
| 8 Fibre | HF062S12WSTANM4FT | HF050S12WSTANM4FT | HFOM3S12WSTANM4FT | HFOM4S12WSTANM4FT | HF008S12WSTANM4FT |
| 12 Fibre | HF062S16WSTANM4FT | HF050S16WSTANM4FT | HFOM3S16WSTANM4FT | HFOM4S16WSTANM4FT | HF008S16WSTANM4FT |
| 16 Fibre | HF062S20WSTANM4FT | HF050S20WSTANM4FT | HFOM3S20WSTANM4FT | HFOM4S20WSTANM4FT | HF008S20WSTANM4FT |
| 24 Fibre | HF062S24WSTANM4FT | HF050S24WSTANM4FT | HFOM3S24WSTANM4FT | HFOM4S24WSTANM4FT | HF008S24WSTANM4FT |

## Universal MSU 02 and External MSE 02
Direct Burial Steel Tape Armoured Multi Loose Tube Cable

For direct burial applications, the single sheathed product range offers up to 72 fibres in a compact and relatively flexible construction. The product range consists of up to 6 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and a layer of steel tape armour provides additional crush resistance.

### MSU 02 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 12 Fibre | HF062S12WSTALU | HF050S12WSTALU | HFOM3S12WSTALU | HFOM4S12WSTALU | HF008S12WSTALU |
| 24 Fibre | HF062S24WSTALU | HF050S24WSTALU | HFOM3S24WSTALU | HFOM4S24WSTALU | HF008S24WSTALU |
| 36 Fibre | HF062S36WSTALU | HF050S36WSTALU | HFOM3S36WSTALU | HFOM4S36WSTALU | HF008S36WSTALU |
| 48 Fibre | HF062S48WSTALU | HF050S48WSTALU | HFOM3S48WSTALU | HFOM4S48WSTALU | HF008S48WSTALU |
| 60 Fibre | HF062S60WSTALU | HF050S60WSTALU | HFOM3S60WSTALU | HFOM4S60WSTALU | HF008S60WSTALU |
| 72 Fibre | HF062S72WSTALU | HF050S72WSTALU | HFOM3S72WSTALU | HFOM4S72WSTALU | HF008S72WSTALU |

### MSE 02 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 12 Fibre | HF062S12WSTANM | HF050S12WSTANM | HFOM3S12WSTANM | HFOM4S12WSTANM | HF008S12WSTANM |
| 24 Fibre | HF062S24WSTANM | HF050S24WSTANM | HFOM3S24WSTANM | HFOM4S24WSTANM | HF008S24WSTANM |
| 36 Fibre | HF062S36WSTANM | HF050S36WSTANM | HFOM3S36WSTANM | HFOM4S36WSTANM | HF008S36WSTANM |
| 48 Fibre | HF062S48WSTANM | HF050S48WSTANM | HFOM3S48WSTANM | HFOM4S48WSTANM | HF008S48WSTANM |
| 60 Fibre | HF062S60WSTANM | HF050S60WSTANM | HFOM3S60WSTANM | HFOM4S60WSTANM | HF008S60WSTANM |
| 72 Fibre | HF062S72WSTANM | HF050S72WSTANM | HFOM3S72WSTANM | HFOM4S72WSTANM | HF008S72WSTANM |

O62    050  OM3  OM4    008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Universal MSU 04 and External MSE 04
### Direct Burial Steel Tape Armoured Multi Loose Tube Cable

For direct burial applications, the single sheathed product range offers up to 96 fibres in a compact and relatively flexible construction. The product range consists of up to 8 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and a layer of steel tape armour provides additional crush resistance.

### MSU 04 - Universal

|            | OM1            | OM2            | OM3            | OM4            | OS1/OS2        |
|------------|----------------|----------------|----------------|----------------|----------------|
| 84 Fibre   | HF062S84WSTALU | HF050S84WSTALU | HFOM3S84WSTALU | HFOM4S84WSTALU | HF008S84WSTALU |
| 96 Fibre   | HF062S96WSTALU | HF050S96WSTALU | HFOM3S96WSTALU | HFOM4S96WSTALU | HF008S96WSTALU |

### MSE 04 - External

|            | OM1            | OM2            | OM3            | OM4            | OS1/OS2        |
|------------|----------------|----------------|----------------|----------------|----------------|
| 84 Fibre   | HF062S84WSTANM | HF050S84WSTANM | HFOM3S84WSTANM | HFOM4S84WSTANM | HF008S84WSTANM |
| 96 Fibre   | HF062S96WSTANM | HF050S96WSTANM | HFOM3S96WSTANM | HFOM4S96WSTANM | HF008S96WSTANM |

## Universal MSU 03 and External MSE 03
### Direct Burial Steel Tape Armoured Multi Loose Tube cable

For direct burial applications, the single sheathed product range offers up to 144 fibres in a compact and relatively flexible construction. The product range consists of up to 12 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a sheathed rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and a layer of corrugated steel tape armour gives additional crush resistance.

### MSU 03 - Universal

|            | OM1             | OM2             | OM3             | OM4             | OS1/OS2         |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 108 Fibre  | HF062S108WSTALU | HF050S108WSTALU | HFOM3S108WSTALU | HFOM4S108WSTALU | HF008S108WSTALU |
| 120 Fibre  | HF062S120WSTALU | HF050S120WSTALU | HFOM3S120WSTALU | HFOM4S120WSTALU | HF008S120WSTALU |
| 132 Fibre  | HF062S132WSTALU | HF050S132WSTALU | HFOM3S132WSTALU | HFOM4S132WSTALU | HF008S132WSTALU |
| 144 Fibre  | HF062S144WSTALU | HF050S144WSTALU | HFOM3S144WSTALU | HFOM4S144WSTALU | HF008144WSTALU  |

### MSE 03 - External

|            | OM1             | OM2             | OM3             | OM4             | OS1/OS2         |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 108 Fibre  | HF062S108WSTANM | HF050S108WSTANM | HFOM3S108WSTANM | HFOM4S108WSTANM | HF008S108WSTANM |
| 120 Fibre  | HF062S120WSTANM | HF050S120WSTANM | HFOM3S120WSTANM | HFOM4S120WSTANM | HF008S120WSTANM |
| 132 Fibre  | HF062S132WSTANM | HF050S132WSTANM | HFOM3S132WSTANM | HFOM4S132WSTANM | HF008S132WSTANM |
| 144 Fibre  | HF062S144WSTANM | HF050S144WSTANM | HFOM3S144WSTANM | HFOM4S144WSTANM | HF008144WSTANM  |

O62    050  OM3  OM4    008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Universal MSU 05 and External MSE 05
Direct Burial Steel Tape Armoured Multi Loose Tube cable

For direct burial applications, the single sheathed product range offers up to 216 fibres in a compact and relatively flexible construction. The product range consists of up to 18 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a sheathed rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and a layer of corrugated steel tape armour gives additional crush resistance.

### MSU 05 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 156 Fibre | HF062S156WSTALU | HF050S156WSTALU | HFOM3S156WSTALU | HFOM4S156WSTALU | HF008S156WSTALU |
| 168 Fibre | HF062S168WSTALU | HF050S168WSTALU | HFOM3S168WSTALU | HFOM4S168WSTALU | HF008S168WSTALU |
| 180 Fibre | HF062S180WSTALU | HF050S180WSTALU | HFOM3S180WSTALU | HFOM4S180WSTALU | HF008S180WSTALU |
| 192 Fibre | HF062S192WSTALU | HF050S192WSTALU | HFOM3S192WSTALU | HFOM4S192WSTALU | HF008S192WSTALU |
| 204 Fibre | HF062S204WSTALU | HF050S204WSTALU | HFOM3S204WSTALU | HFOM4S204WSTALU | HF008S204WSTALU |
| 216 Fibre | HF062S216WSTALU | HF050S216WSTALU | HFOM3S216WSTALU | HFOM4S216WSTALU | HF008S216WSTALU |

### MSE 05 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 156 Fibre | HF062S156WSTANM | HF050S156WSTANM | HFOM3S156WSTANM | HFOM4S156WSTANM | HF008S156WSTANM |
| 168 Fibre | HF062S168WSTANM | HF050S168WSTANM | HFOM3S168WSTANM | HFOM4S168WSTANM | HF008S168WSTANM |
| 180 Fibre | HF062S180WSTANM | HF050S180WSTANM | HFOM3S180WSTANM | HFOM4S180WSTANM | HF008S180WSTANM |
| 192 Fibre | HF062S192WSTANM | HF050S192WSTANM | HFOM3S192WSTANM | HFOM4S192WSTANM | HF008S192WSTANM |
| 204 Fibre | HF062S204WSTANM | HF050S204WSTANM | HFOM3S204WSTANM | HFOM4S204WSTANM | HF008S204WSTANM |
| 216 Fibre | HF062S216WSTANM | HF050S216WSTANM | HFOM3S216WSTANM | HFOM4S216WSTANM | HF008S216WSTANM |

## Universal MTU 01 and External MTE 01
Twin Sheath Steel Tape Armoured Multi Loose Tube Cable

For applications where a higher tensile load is required versus that offered by unitube constructions, the universal product range offers a compact low fibre count direct burial grade cable. The product range consists of up to 6 x 2.10mm loose tubes containing up to 4 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and the LSHF or PE inner sheath and a layer of corrugated steel tape armour provide additional crush resistance.

### MTU 01 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | HF062S4WLSTALU4FT | HF050S4WLSTALU4FT | HFOM3S4WLSTALU4FT | HFOM4S4WLSTALU4FT | HF008S4WLSTALU4FT |
| 8 Fibre | HF062S8WLSTALU4FT | HF050S8WLSTALU4FT | HFOM3S8WLSTALU4FT | HFOM4S8WLSTALU4FT | HF008S8WLSTALU4FT |
| 12 Fibre | HF062S12WLSTALU4FT | HF050S12WLSTALU4FT | HFOM3S12WLSTALU4FT | HFOM4S12WLSTALU4FT | HF008S12WLSTALU4FT |
| 16 Fibre | HF062S16WLSTALU4FT | HF050S16WLSTALU4FT | HFOM3S16WLSTALU4FT | HFOM4S16WLSTALU4FT | HF008S16WLSTALU4FT |
| 20 Fibre | HF062S20WLSTALU4FT | HF050S20WLSTALU4FT | HFOM3S20WLSTALU4FT | HFOM4S20WLSTALU4FT | HF008S20WLSTALU4FT |
| 24 Fibre | HF062S24WLSTALU4FT | HF050S24WLSTALU4FT | HFOM3S24WLSTALU4FT | HFOM4S24WLSTALU4FT | HF008S24WLSTALU4FT |

### MTE 01 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 4 Fibre | HF062S4WNMSTANM4FT | HF050S4WNMSTANM4FT | HFOM3S4WNMSTANM4FT | HFOM4S4WNMSTANM4FT | HF008S4WNMSTANM4FT |
| 8 Fibre | HF062S8WNMSTANM4FT | HF050S8WNMSTANM4FT | HFOM3S8WNMSTANM4FT | HFOM4S8WNMSTANM4FT | HF008S8WNMSTANM4FT |
| 12 Fibre | HF062S12WNMSTANM4FT | HF050S12WNMSTANM4FT | HFOM3S12WNMSTANM4FT | HFOM4S12WNMSTANM4FT | HF008S12WNMSTANM4FT |
| 16 Fibre | HF062S16WNMSTANM4FT | HF050S16WNMSTANM4FT | HFOM3S16WNMSTANM4FT | HFOM4S16WNMSTANM4FT | HF008S16WNMSTANM4FT |
| 20 Fibre | HF062S20WNMSTANM4FT | HF050S20WNMSTANM4FT | HFOM3S20WNMSTANM4FT | HFOM4S20WNMSTANM4FT | HF008S20WNMSTANM4FT |
| 24 Fibre | HF062S24WNMSTANM4FT | HF050S24WNMSTANM4FT | HFOM3S24WNMSTANM4FT | HFOM4S24WNMSTANM4FT | GF008S24WNMSTANM4FT |

O62　　　050　OM3　OM4　　　008　108　208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Universal MTU 02 and External MTE 02
Twin Sheath Steel Tape Armoured Multi Loose Tube Cable

For direct burial applications, the twin sheathed product range offers up to 72 fibres in a compact and relatively flexible construction. The product range consists of up to 6 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and a layer of corrugated steel tape armour gives additional crush resistance.

### MTU 02 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 12 Fibre | HF062S12WLSTALU | HF050S12WLSTALU | HFOM3S12WLSTALU | HFOM4S12WLSTALU | HF008S12WLSTALU |
| 16 Fibre | HF062S24WLSTALU | HF050S24WLSTALU | HFOM3S24WLSTALU | HFOM4S24WLSTALU | HF008S24WLSTALU |
| 24 Fibre | HF062S36WLSTALU | HF050S36WLSTALU | HFOM3S36WLSTALU | HFOM4S36WLSTALU | HF008S36WLSTALU |
| 48 Fibre | HF062S48WLSTALU | HF050S48WLSTALU | HFOM3S48WLSTALU | HFOM4S48WLSTALU | HF008S48WLSTALU |
| 60 Fibre | HF062S60WLSTALU | HF050S60WLSTALU | HFOM3S60WLSTALU | HFOM4S60WLSTALU | HF008S60WLSTALU |
| 72 Fibre | HF062S72WLSTALU | HF050S72WLSTALU | HFOM3S72WLSTALU | HFOM4S72WLSTALU | HF008S72WLSTALU |

### MTE 02 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 12 Fibre | HF062S12WNMSTANM | HF050S12WNMSTANM | HFOM3S12WNMSTANM | HFOM4S12WNMSTANM | HF008S12WNMSTANM |
| 16 Fibre | HF062S24WNMSTANM | HF050S24WNMSTANM | HFOM3S24WNMSTANM | HFOM4S24WNMSTANM | HF008S24WNMSTANM |
| 24 Fibre | HF062S36WNMSTANM | HF050S36WNMSTANM | HFOM3S36WNMSTANM | HFOM4S36WNMSTANM | HF008S36WNMSTANM |
| 48 Fibre | HF062S48WNMSTANM | HF050S48WNMSTANM | HFOM3S48WNMSTANM | HFOM4S48WNMSTANM | HF008S48WNMSTANM |
| 60 Fibre | HF062S60WNMSTANM | HF050S60WNMSTANM | HFOM3S60WNMSTANM | HFOM4S60WNMSTANM | HF008S60WNMSTANM |
| 72 Fibre | HF062S72WNMSTANM | HF050S72WNMSTANM | HFOM3S72WNMSTANM | HFOM4S72WNMSTANM | HF008S72WNMSTANM |

## Universal MTU 04 and External MTE 04
Twin Sheath Steel Tape Armoured Multi Loose Tube Cable

For direct burial applications, the twin sheathed product range offers up to 96 fibres in a compact and relatively flexible construction. The product range consists of up to 8 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and a layer of corrugated steel tape armour gives additional crush resistance.

### MTU 04 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 84 Fibre | HF062S84WLSTALU | HF050S84WLSTALU | HFOM3S84WLSTALU | HFOM4S84WLSTALU | HF008S84WLSTALU |
| 96 Fibre | HF062S96WLSTALU | HF050S96WLSTALU | HFOM3S96WLSTALU | HFOM4S96WLSTALU | HF008S96WLSTALU |

### MTE 04 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 84 Fibre | HF062S84WNMSTANM | HF050S84WNMSTANM | HFOM3S84WNMSTANM | HFOM4S84WNMSTANM | HF008S84WNMSTANM |
| 96 Fibre | HF062S96WNMSTANM | HF050S96WNMSTANM | HFOM3S96WNMSTANM | HFOM4S96WNMSTANM | HF008S96WNMSTANM |

O62    050  OM3  OM4    008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BIOLITE | MicroBio | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## Universal MTU 03 and External MTE 03
Twin Sheath Steel Tape Armoured Multi Loose Tube Cable

For direct burial applications, the twin sheathed product range offers up to 144 fibres in a compact and relatively flexible construction. The range consists of up to 12 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a sheathed rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and a layer of corrugated steel tape armour gives additional crush resistance.

### MTU 03 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 108 Fibre | HF062S108WLSTALU | HF050S108WLSTALU | HFOM3S108WLSTALU | HFOM4S108WLSTALU | HF008S108WLSTALU |
| 120 Fibre | HF062S120WLSTALU | HF050S120WLSTALU | HFOM3S120WLSTALU | HFOM4S120WLSTALU | HF008S120WLSTALU |
| 132 Fibre | HF062S132WLSTALU | HF050S132WLSTALU | HFOM3S132WLSTALU | HFOM4S132WLSTALU | HF008S132WLSTALU |
| 144 Fibre | HF062S144WLSTALU | HF050S144WLSTALU | HFOM3S144WLSTALU | HFOM4S144WLSTALU | HF008144WLSTALU |

### MTE 03 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 108 Fibre | HF062S108WNMSTANM | HF050S108WNMSTANM | HFOM3S108WNMSTANM | HFOM4S108WNMSTANM | HF008S108WNMSTANM |
| 120 Fibre | HF062S120WNMSTANM | HF050S120WNMSTANM | HFOM3S120WNMSTANM | HFOM4S120WNMSTANM | HF008S120WNMSTANM |
| 132 Fibre | HF062S132WNMSTANM | HF050S132WNMSTANM | HFOM3S132WNMSTANM | HFOM4S132WNMSTANM | HF008S132WNMSTANM |
| 144 Fibre | HF062S144WNMSTANM | HF050S144WNMSTANM | HFOM3S144WNMSTANM | HFOM4S144WNMSTANM | HF008144WNMSTANM |

## Universal MTU 05 and External MTE 05
Twin Sheath Steel Tape Armoured Multi Loose Tube Cable

For direct burial applications, the twin sheathed product range offers up to 216 fibres in a compact and relatively flexible construction. The range consists of up to 18 x 2.50mm loose tubes containing up to 12 fibres and solid fillers where required, stranded around a sheathed rigid glass non metallic central strength member. A layer of water blocking tape provides interstitial water blocking and a layer of corrugated steel tape armour gives additional crush resistance.

### MTU 05 - Universal

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 156 Fibre | HF062S156WLSTALU | HF050S156WLSTALU | HFOM3S156WLSTALU | HFOM4S156WLSTALU | HF008S156WLSTALU |
| 168 Fibre | HF062S168WLSTALU | HF050S168WLSTALU | HFOM3S168WLSTALU | HFOM4S168WLSTALU | HF008S168WLSTALU |
| 180 Fibre | HF062S180WLSTALU | HF050S180WLSTALU | HFOM3S180WLSTALU | HFOM4S180WLSTALU | HF008S180WLSTALU |
| 192 Fibre | HF062S192WLSTALU | HF050S192WLSTALU | HFOM3S192WLSTALU | HFOM4S192WLSTALU | HF008192WLSTALU |
| 204 Fibre | HF062S204WLSTALU | HF050S204WLSTALU | HFOM3S204WLSTALU | HFOM4S204WLSTALU | HF008S204WLSTALU |
| 216 Fibre | HF062S216WLSTALU | HF050S216WLSTALU | HFOM3S216WLSTALU | HFOM4S216WLSTALU | HF008S216WLSTALU |

### MTE 05 - External

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 156 Fibre | HF062S156WNMSTANM | HF050S156WNMSTANM | HFOM3S156WNMSTANM | HFOM4S156WNMSTANM | HF008S156WNMSTANM |
| 168 Fibre | HF062S168WNMSTANM | HF050S168WNMSTANM | HFOM3S168WNMSTANM | HFOM4S168WNMSTANM | HF008S168WNMSTANM |
| 180 Fibre | HF062S132WNMSTANM | HF050S132WNMSTANM | HFOM3S132WNMSTANM | HFOM4S132WNMSTANM | HF008S168WNMSTANM |
| 192 Fibre | HF062S192WNMSTANM | HF050S192WNMSTANM | HFOM3S192WNMSTANM | HFOM4S192WNMSTANM | HF008192WNMSTANM |
| 204 Fibre | HF062S204WNMSTANM | HF050S204WNMSTANM | HFOM3S204WNMSTANM | HFOM4S204WNMSTANM | HF008S204WNMSTANM |
| 216 Fibre | HF062S216WNMSTANM | HF050S216WNMSTANM | HFOM3S216WNMSTANM | HFOM4S216WNMSTANM | HF008S216WNMSTANM |

O62    050  OM3  OM4    008  108  208

Use these part number identifiers to select the fibre type you require by replacing the fibre code in the part number e.g. HFOM3PDC24LU becomes HFOM4PDC24LU.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

Brand-Rex is pleased to offer a FibrePlus cable for specialist applications. The UFS Fire Survival cable is used in areas where critical data transmission must continue when the building structure in which it is installed is on fire. For this reason its use in large public buildings such as datacentres, airports, railway stations, stadia and onshore/offshore industrial structures is becoming increasingly common.

The use of the cable in building management, fire and security systems means that these vital systems will remain functional in the event of a real life incident which requires an emergency evacuation.

As a company that is driven by our customers needs, Brand-Rex will always be happy to offer specialist products to order based on your own specification.

This includes complex requirements ranging from cables for extreme environments to simple requirements such as composite cables, custom sheath colours or printing. Please enquire about our customised cable service.

## Universal UFS 01
### Unitube Fire Survival Cable



In today's business environment the secure backup of business critical systems in the event of an emergency is a pre-requisite. The UFS 01 Fire Survival cable is used in areas where critical data transmission must continue when the building or structure in which it is installed is on fire. For this reason its use in large public buildings such as datacentres, airports, railway stations, stadia and onshore/offshore industrial structures is becoming increasingly common. The use of the cable in building management, fire and security systems means that these vital systems will remain functional in the event of a real life incident which requires an emergency evacuation.

| | | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|---|
| Acid Gas Emissions: | Pass | **4 Fibre** | EF062UNI4LSTALUFS | EF050UNI4LSTALUFS | EFOM3UNI4LSTALUFS | EFOM4UNI4LSTALUFS | EF008UNI4LSTALUFS |
| Smoke Index: | Pass | **8 Fibre** | EF062UNI8LSTALUFS | EF050UNI8LSTALUFS | EFOM3UNI8LSTALUFS | EFOM4UNI8LSTALUFS | EF008UNI8LSTALUFS |
| Fire: | (IEC 60331-25) Pass (90 mins @ 750℃) | **12 Fibre** | EF062UNI12LSTALUFS | EF050UNI12LSTALUFS | EFOM3UNI12LSTALUFS | EFOM4UNI12LSTALUFS | EF008UNI12LSTALUFS |
| | (BSEN50200 -2000) Pass PH120, | **16 Fibre** | EF062UNI16LSTALUFS | EF050UNI16LSTALUFS | EFOM3UNI16LSTALUFS | EFOM4UNI16LSTALUFS | EF008UNI16LSTALUFS |
| | BS 8434-2 Pass, IEC 60332-3-24 Pass, IEC 60332-1-2 Pass | **24 Fibre** | EF062UNI24LSTALUFS | EF050UNI24LSTALUFS | EFOM3UNI24LSTALUFS | EFOM4UNI24LSTALUFS | EF008UNI24LSTALUFS |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, optical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BI-OLITE | MICROBIO | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

FibrePlus is a comprehensive range of premium products including Single Mode and Multi Mode Pigtails and Patch Cords using ST, SC, FC and LC Connectors and Adaptors.

All connectorised assembly types are available as either Multi Mode; to connect OM1, OM2, OM3 and OM4 cables and Single Mode to connect OS1 and OS2 cables. All are manufactured to comply with the international standards ISO/IEC 11801, EN50173-1 and ANSI/TIA/ETA 568C.

For rack management the FibrePlus Optical Patch Panel, Cable Management Plates and Modules offer a flexible, cost effective solution with the ability to cater for growth.

Available as an empty panel, suitable for all mainstream connector types the product is able to manage up to 96 Fibres in 1U using Small Form Factor connectors.

The sliding shelf design, along with other added features, enables quick and easy reconfiguration and expansion making future upgrades and changes both quicker and easier. Full Blolite support is part of the flexible future proofing designed into this product.

Pre-Connectorised Cable Assemblies, Wall outlets, complete the range providing end to end, in-building and campus cabling solutions.

## 62.5/125 OM1 Multi Mode Optical Patch Cords

For use in permanent connections between transmission equipment and patch panels or interconnect / cross connect between panels. Patch cords are pre-constructed with connectors. These include small form factors such as LC and MT-RJ as well as SC, FC and ST. Based on 2.80mm sub units (1.9mm SFF) these cables are sheathed with LSHF material making them suitable for internal use.

| | 1m | 2m | 3m | 5m |
|---|---|---|---|---|
| FC - FC Duplex | HOPFC062010FC291 | HOPFC062020FC291 | HOPFC062030FC291 | HOPFC062050FC291 |
| LC - SC Duplex | HOPLC062010SC293 | HOPLC062020SC293 | HOPLC062030SC293 | HOPLC062050SC293 |
| LC - ST Duplex | HOPLC062010ST293 | HOPLC062020ST293 | HOPLC062030ST293 | HOPLC062050ST293 |
| LC - LC Duplex | HOPLC062010LC293 | HOPLC062020LC293 | HOPLC062030LC293 | HOPLC062050LC293 |
| MT-RJ - SC Duplex | HOPMJ062010SC292 | HOPMJ062020SC292 | HOPMJ062030SC292 | HOPMJ062050SC292 |
| SC - SC Duplex | HOPSC062010SC291 | HOPSC062020SC291 | HOPSC062030SC291 | HOPSC062050SC291 |
| SC - ST Duplex | HOPSC062010ST291 | HOPSC062020ST291 | HOPSC062030ST291 | HOPSC062050ST291 |
| ST - ST Duplex | HOPST062010ST291 | HOPST062020ST291 | HOPST062030ST291 | HOPST062050ST291 |

**Manufactured to comply with:**
**ISO/IEC 11801,EN50173 -1, ANSI TIA/EIA 568.C**

Note: Image shows an LC-LC duplex assembly

## 50/125 OM2 Multi Mode Optical Patch Cords

For use in permanent connections between transmission equipment and patch panels or interconnect / cross connect between panels. Patch cords are pre-constructed with connectors. These include small form factors such as LC and MT-RJ as well as SC, FC and ST. Based on 2.80mm sub units (1.9mm SFF) these cables are sheathed with LSHF material making them suitable for internal use.

| | 1m | 2m | 3m | 5m |
|---|---|---|---|---|
| FC - FC Duplex | HOPFC050010FC291 | HOPFC050020FC291 | HOPFC050030FC291 | HOPFC050050FC291 |
| LC - SC Duplex | HOPLC050010SC293 | HOPLC050020SC293 | HOPLC050030SC293 | HOPLC050050SC293 |
| LC - ST Duplex | HOPLC050010ST293 | HOPLC050020ST293 | HOPLC050030ST293 | HOPLC050050ST293 |
| LC - LC Duplex | HOPLC050010LC293 | HOPLC050020LC293 | HOPLC050030LC293 | HOPLC050050LC293 |
| SC - SC Duplex | HOPSC050010SC291 | HOPSC050020SC291 | HOPSC050030SC291 | HOPSC050050SC291 |
| SC - ST Duplex | HOPSC050010ST291 | HOPSC050020ST291 | HOPSC050030ST291 | HOPSC050050ST291 |
| ST - ST Duplex | HOPST050010ST291 | HOPST050020ST291 | HOPST050030ST291 | HOPST050050ST291 |

**Manufactured to comply with:**
**ISO/IEC 11801,EN50173 -1, ANSI TIA/EIA 568.C**

Note: Image shows an LC-LC duplex assembly

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## 50/125 OM3 Multi Mode Optical Patch Cords

For use in permanent connections between transmission equipment and patch panels or interconnect / cross connect between panels. Patch cords are pre-constructed with connectors. These include small form factors such as LC and MT-RJ as well as SC, FC and ST. Based on 2.80mm sub units (1.9mm SFF) these cables are sheathed with LSHF material making them suitable for internal use.

| | 1m | 2m | 3m | 5m |
|---|---|---|---|---|
| FC - FC Duplex | HOPFCOM3010FC251 | HOPFCOM3020FC251 | HOPFCOM3030FC251 | HOPFCOM3050FC251 |
| LC - SC Duplex | HOPLCOM3010SC253 | HOPLCOM3020SC253 | HOPLCOM3030SC253 | HOPLCOM3050SC253 |
| LC - ST Duplex | HOPLCOM3010ST253 | HOPLCOM3020ST253 | HOPLCOM3030ST253 | HOPLCOM3050ST253 |
| LC - LC Duplex | HOPLCOM3010LC253 | HOPLCOM3020LC253 | HOPLCOM3030LC253 | HOPLCOM3050LC253 |
| LC-LC Duplex Uniboot (BI)* | BOPLCOM3010LC257 | BOPLCOM3020LC257 | BOPLCOM3030LC257 | BOPLCOM3050LC257 |
| SC - SC Duplex | HOPSCOM3010SC251 | HOPSCOM3020SC251 | HOPSCOM3030SC251 | HOPSCOM3050SC251 |
| SC - ST Duplex | HOPSCOM3010ST251 | HOPSCOM3020ST251 | HOPSCOM3030ST251 | HOPSCOM3050ST251 |
| ST - ST Duplex | HOPSTOM3010ST251 | HOPSTOM3020ST251 | HOPSTOM3030ST251 | HOPSTOM3050ST251 |

**Manufactured to comply with:**
ISO/IEC 11801, EN50173 -1, ANSI TIA/EIA 568B

Note: Image shows an LC-LC duplex assembly

* Bend Insensitive Uniboot patch cord

## 50/125 OM4 Multi Mode Optical Patch Cords

For use in permanent connections between transmission equipment and patch panels or interconnect / cross connect between panels. Patch cords are pre-constructed with connectors. These include small form factors such as LC and MT-RJ as well as SC, FC and ST.  Based on 2.80mm sub units (1.9mm SFF) these cables are sheathed with LSHF material making them suitable for internal use.

| | 1m | 2m | 3m | 5m |
|---|---|---|---|---|
| FC - FC Duplex | HOPFCOM4010FC271 | HOPFCOM4020FC271 | HOPFCOM4030FC271 | HOPFCOM4050FC271 |
| LC - SC Duplex | HOPLCOM4010SC273 | HOPLCOM4020SC273 | HOPLCOM4030SC273 | HOPLCOM4050SC273 |
| LC - ST Duplex | HOPLCOM4010ST273 | HOPLCOM4020ST273 | HOPLCOM4030ST273 | HOPLCOM4050ST273 |
| LC - LC Duplex | HOPLCOM4010LC273 | HOPLCOM4020LC273 | HOPLCOM4030LC273 | HOPLCOM4050LC273 |
| SC - SC Duplex | HOPSCOM4010SC271 | HOPSCOM4020SC271 | HOPSCOM4030SC271 | HOPSCOM4050SC271 |
| SC - ST Duplex | HOPSCOM4010ST271 | HOPSCOM4020ST271 | HOPSCOM4030ST271 | HOPSCOM4050ST271 |
| ST - ST Duplex | HOPSTOM4010ST271 | HOPSTOM4020ST271 | HOPSTOM4030ST271 | HOPSTOM4050ST271 |

**Manufactured to comply with:**
ISO/IEC 11801,EN50173 -1, ANSI TIA/EIA 568.C

Note: Image shows an LC-LC duplex assembly

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Single Mode Optical Patch Cords

For use in permanent connections between transmission equipment and patch panels or interconnect / cross connect between panels. Patch cords are pre-constructed with connectors. These include small form factors such as LC, SC, FC and ST. Based on 2.80mm sub units (1.9mm SFF) these cables are sheathed with LSHF material making them suitable for internal use.

| | 1m | 2m | 3m | 5m |
|---|---|---|---|---|
| FC - FC Duplex | HOPFC008010FC201 | HOPFC008020FC201 | HOPFC008030FC201 | HOPFC008050FC201 |
| LC - SC Duplex | HOPLC008010SC203 | HOPLC008020SC203 | HOPLC008030SC203 | HOPLC008050SC203 |
| LC - ST Duplex | HOPLC008010ST203 | HOPLC008020ST203 | HOPLC008030ST203 | HOPLC008050ST203 |
| LC - LC Duplex | HOPLC008010LC203 | HOPLC008020LC203 | HOPLC008030LC203 | HOPLC008050LC203 |
| SC - SC Duplex | HOPSC008010SC201 | HOPSC008020SC201 | HOPSC008030SC201 | HOPSC008050SC201 |
| SC - ST Duplex | HOPSC008010ST201 | HOPSC008020ST201 | HOPSC008030ST201 | HOPSC008050ST201 |
| ST - ST Duplex | HOPST008010ST201 | HOPST008020ST201 | HOPST008030ST201 | HOPST008050ST201 |

**Manufactured to comply with:**
**ISO/IEC 11801,EN50173 -1, ANSI TIA/EIA 568.C**

Note: Image shows an LC-LC duplex assembly

### Single Mode Optical Patch Cords

| | 1m | 2m | 3m | 5m |
|---|---|---|---|---|
| SC/APC-SC/APC Duplex* | HOPAC008010AC201 | HOPAC008020AC201 | HOPAC008030AC201 | HOPAC008050AC201 |
| LC/APC-SC/APC Duplex | HOPAL008010AC203 | HOPAL008020AC203 | HOPAL008030AC203 | HOPAL008050AC203 |
| LC/APC-LC/APC Duplex | HOPAL008010AL203 | HOPAL008020AL203 | HOPAL008030AL203 | HOPAL008050AL203 |
| SC/UPC-SC/UPC Duplex* | HOPUC008010UC201 | HOPUC008020UC201 | HOPUC008030UC201 | HOPUC008050UC201 |
| LC/UPC-SC/UPC Duplex | HOPUL008010UC203 | HOPUL008020UC203 | HOPUL008030UC203 | HOPUL008050UC203 |
| LC/UPC-LC/UPC Duplex | HOPUL008010UL203 | HOPUL008020UL203 | HOPUL008030UL203 | HOPUL008050UL203 |

Single Mode O *= also available as 10m ptical Patch Cords

## Single Mode and Multi Mode Optical Pigtails
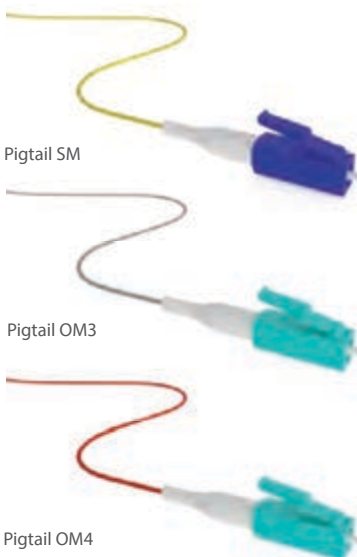
For use in permanent connections between patch panels and incoming cables / single blown fibres. Pigtails are pre-constructed with connectors. Connector options include small form factors such as LC as well as SC, FC and ST. Based on 900µm tight buffered cores (600µm SFF) and suitable for internal use only inside suitable Fibre Management Systems.

Pigtail SM

Pigtail OM3

Pigtail OM4

| | OM1 | OM2 | OM3 | OM4 | OMS1/OS2 |
|---|---|---|---|---|---|
| FC - 1 metre | HOTFC062001 | HOTFC050001 | HOTFCOM3001 | HOTFCOM4001 | HOTFC008001 |
| SC - 1 metre | HOTSC062001 | HOTSC050001 | HOTSCOM3001 | HOTSCOM4001 | HOTSC008001 |
| ST - 1 metre | HOTST062001 | HOTST050001 | HOTSTOM3001 | HOTSTOM4001 | HOTST008001 |
| LC - 1 metre | HOTLC062001 | HOTLC050001 | HOTLCOM3001 | HOTLCOM4001 | HOTLC008001 |
| SC/APC - 1 meter | - | - | - | - | HOTAC008001 |
| LC/APC - 1 meter | - | - | - | - | HOTAL008001 |
| SC/UPC - 1 meter | - | - | - | - | HOTUC008001 |
| LC/UPC - 1 meter | - | - | - | - | HOTUL008001 |

| | OM1 | OM2 | OM3 | OM4 | OMS1/OS2 |
|---|---|---|---|---|---|
| FC - 2 metre | HOTFC062002 | HOTFC050002 | HOTFCOM3002 | HOTFCOM4002 | HOTFC008002 |
| SC - 2 metre | HOTSC062002 | HOTSC050002 | HOTSCOM3002 | HOTSCOM4002 | HOTSC008002 |
| ST - 2 metre | HOTST062002 | HOTST050002 | HOTSTOM3002 | HOTSTOM4002 | HOTST008002 |
| LC - 2 metre | HOTLC062002 | HOTLC050002 | HOTLCOM3002 | HOTLCOM4002 | HOTLC008002 |
| MT-RJ - 2 metre | HOTMJ062502 | HOTMJ050502 | HOTMJOM3502 | HOTMJOM4502 | - |
| SC/APC - 2 meter | - | - | - | - | HOTAC008002 |
| LC/APC - 2 meter | - | - | - | - | HOTAL008002 |
| SC/UPC - 2 meter | - | - | - | - | HOTUC008002 |
| LC/UPC - 2 meter | - | - | - | - | HOTUL008002 |

**Manufactured to comply with:**
**ISO/IEC 11801,EN50173 -1, ANSI TIA/EIA 568.C**

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## FibrePlus - Unloaded Panels & Panel Options



The FibrePlus 1U fibre 19" Optic Patch Panels have been designed to optimise both the internal fibre management but also to add greater fibre density. Constructed from mild steel with a powder coated paint finish the panels are available in Black or Grey. The Patch Panels offers a flexible and highly versatile solution for optical splicing and patching. The panel's shallow depth allows it to be installed within the majority of standard racks and wall mounted enclosures. The integrated design features ensure that even once installed panels can be readily re-configured to accommodate the changing needs of today's high speed networks.

| Description | Part Number |
|---|---|
| Unloaded Optical for up to 24 ST or FC adaptors - Black | FPCC1SXXX24ST2 |
| Unloaded Optical for up to 12 SC Duplex or LC Quad adaptors - Black | FPCC1SXXX24DC2 |
| Unloaded Optical for up to 24 SC Duplex or LC Quad adaptors - Black | FPCC1SXXX48DC2 |
| Unloaded Optical for up to 24 SC Simplex, MT-RJ & LC Duplex adaptors - Black | FPCC1SXXX48SC2 |
| Fibre management kit including loops and 24 way splice bridge | FPCFMKIT001 |
| Adaptor collar for 3mm Straight connector | 30-0301-5 |
| ST/FC Blanking Plugs (Black) - Pack 100 | BPEST101-100 |
| SC Simplex Blanking Plug (also suitable for LC & MT -RJ) (Black) - Pack 100 | BPESC101-100 |
| SC Duplex Blanking Plug (also suitable for LC Quad) (Black) - Pack 100 | BPESC301-100 |
| 25mm Manifold Gland | 30-4800-09 |

## FibrePlus - Part Loaded Patch Panels



The FibrePlus 19" 1U fibre Optic Patch Panels have been designed to optimise both the internal fibre management but also to add greater fibre density. Constructed from mild steel with a powder coated paint finish the panels are available in Black or Grey. The Patch Panels offers a flexible and highly versatile solution for optical splicing and patching. The panel's shallow depth allows it to be installed within the majority of standard racks and wall mounted enclosures. The integrated design features ensure that even once installed panels can be readily re-configured to accommodate the changing needs of today's high speed networks.

| Description | 4 Adaptor | 6 Adaptor | 8 Adaptor | 12 Adaptor | 16 Adaptor | 24 Adaptor |
|---|---|---|---|---|---|---|
| ST Single Mode | FPCC1SXSM04ST2 | FPCC1SXSM06ST2 | FPCC1SXSM08ST2 | FPCC1SXSM12ST2 | FPCC1SXSM16ST2 | FPCC1SXSM24ST2 |
| ST Multi Mode | FPCC1SXMM04ST2 | FPCC1SXMM06ST2 | FPCC1SXMM08ST2 | FPCC1SXMM12ST2 | FPCC1SXMM16ST2 | FPCC1SXMM24ST2 |
| FC Single Mode | FPCC1SXSM04FC2 | FPCC1SXSM06FC2 | FPCC1SXSM08FC2 | FPCC1SXSM12FC2 | FPCC1SXSM16FC2 | FPCC1SXSM24FC2 |
| SC Duplex - Single Mode | FPCC1SXSM08DC2 | FPCC1SXSM12DC2 | FPCC1SXSM16DC2 | FPCC1SXSM24DC2 | FPCC1SXSM32DC2 | FPCC1SXSM48DC2 |
| SC Duplex - Multi Mode | FPCC1SXMM08DC2 | FPCC1SXMM12DC2 | FPCC1SXMM16DC2 | FPCC1SXMM24DC2 | FPCC1SXMM32DC2 | FPCC1SXMM48DC2 |
| SC Simplex Single Mode | FPCC1SXSM04SC2 | FPCC1SXSM06SC2 | FPCC1SXSM08SC2 | FPCC1SXSM12SC2 | FPCC1SXSM16SC2 | FPCC1SXSM24SC2 |
| SC Simplex Multi Mode | FPCC1SXMM04SC2 | FPCC1SXMM06SC2 | FPCC1SXMM08SC2 | FPCC1SXMM12SC2 | FPCC1SXMM16SC2 | FPCC1SXMM24SC2 |
| LC Duplex Single Mode | FPCC1SXSM08LC2 | FPCC1SXSM12LC2 | FPCC1SXSM16LC2 | FPCC1SXSM24LC2 | FPCC1SXSM32LC2 | FPCC1SXSM48LC2 |
| LC Duplex Multi Mode | FPCC1SXMM08LC2 | FPCC1SXMM12LC2 | FPCC1SXMM16LC2 | FPCC1SXMM24LC2 | FPCC1SXMM32LC2 | FPCC1SXMM48LC2 |
| LC Quad Single Mode | - | - | - | - | - | FPCC1SXSM96LC2 |
| LC Quad Multi Mode | - | - | - | - | - | FPCC1SXMM96LC2 |

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## High Density Fibre Management Panel

The High Density Fibre Management Panel offers the ultimate solution for management of fibre in Data Centres and telecoms rooms. The panel combines a robust metal frame with precision injection moulded plastic to deliver a flexible and secure construction while still offering fully integrated and flexible fibre management. The 1U 48 LC port patch panel facilitates patch cord routing directly into the rack vertical side management, thus increasing rack density and easing undue stresses on the cords. It is designed to pivot and hinge providing the control and security of a fixed panel but also allowing for increased access and usability.

| Description | Part Number |
|---|---|
| High Density Fibre Management Panel, 48 LC Ports, 1U Dual cassette, part loaded with 12 x Quad LC Multi-mode adaptors & glands - Black | FPCPC1XMM48LC2 |
| High Density Fibre Management Panel, 48 LC Ports, 1U Dual cassette, part loaded with 12 x Quad LC Single-mode adaptors & glands - Black | FPCPC1XSM48LC2 |

## FibrePlus Dual Pivoting Patch Panel

The 48 fibre universal dual pivoting patch panel provides easy segregation of fibres, perfect for separating services. The unique design offers features, such as the swivel function in a universal 19" size, normally only found in bespoke solutions. It is simple to manage and offers easy access in the event of moves, adds or changes.

The dual cassette design pivots from the left and right allowing the patch cords to exit the panel from the two sides giving fast access to the fibre management whilst maintaining a fixed cable entry point.  Easy to install lightweight and robust construction, the transparent cover protects the fibre and allows quick and easy access.

| Description | Part Number |
|---|---|
| 19" Optical Dual Pivoting Panel (1U)- populated with Single-Mode flangeless LC Quad adaptors | TCCPC1SM48LC2 |
| 19" Optical Dual Pivoting Panel (1U)- populated with Multi-Mode flangeless LC Quad adaptors | TCCPC1MM48LC2 |
| 19" Optical Dual Pivoting Panel (1U) – unpopulated | TCCPC1XXXXXX2 |

## 45mm x 45mm and 50mm x 50mm Faceplate Modules

The Brand-Rex range of 45 x 45 Fibre faceplate modules is designed for use in installation poles, wall trunking and back boxes. Configurations are available for Euro style 45 x 45mm faceplates and UK style 50 x 50mm versions offering a versatile solution.

FPCANGL4MM3UK

FPCANGDCMM3UK

| Description | Part Number |
|---|---|
| 45w x 45 mm Fibre Faceplate Module LC Duplex Multi Mode | FPCANGLCMM3 |
| 45 x 45 mm Fibre Faceplate Module LC Duplex Single Mode | FPCANGLCSM3 |
| 45 x 45 mm Fibre Faceplate Module LC Quad Multi Mode | FPCANGL4MM3 |
| 45 x 45 mm Fibre Faceplate Module LC Quad Single Mode | FPCANGL4SM3 |
| 45 x 45 mm Fibre Faceplate Module SC Duplex Multi Mode | FPCANGDCMM3 |
| 45 x 45 mm Fibre Faceplate Module SC Duplex Single Mode | FPCANGDCSM3 |
| 50 x 50 mm Fibre Faceplate Module LC Duplex Multi Mode | FPCANGLCMM3UK |
| 50 x 50 mm Fibre Faceplate Module LC Duplex Single Mode | FPCANGLCSM3UK |
| 50 x 50 mm Fibre Faceplate Module LC Quad Multi Mode | FPCANGL4MM3UK |
| 50 x 50 mm Fibre Faceplate Module LC Quad Single Mode | FPCANGL4SM3UK |
| 50 x 50 mm Fibre Faceplate Module SC Duplex Multi Mode | FPCANGDCMM3UK |
| 50 x 50 mm Fibre Faceplate Module SC Duplex Single Mode | FPCANGDCSM3UK |
| 86 x 147 mm Double Gang Modular Faceplate | MMCWDOUNI031 |
| 44 mm Deep Double Gang UK Back Box | MMCDGBB44002 |
| 86 x 86mm Single Gang Modular Faceplate | MMCWDOUNI030 |
| 44mm Deep Back Box | MMCSGBB44001 |

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10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BI0LITE | MICROBIO | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## SC Optical Connectors

### SC Simplex and Duplex Connectors

SC multimode and single mode connector kits comprise of a one piece SC body with precision ceramic ferrule, crimp, sleeve, colour coded outer shroud, 2 x colour coded 3mm strain relief boots and a 0.9mm boot. SC Duplex connector kits comprise of 2 simplex connectors mounted in a two piece polymer clip and 2 x colour coded 3mm strain relief boots.

### SC Simplex Adaptor

SC Adaptors comprise of a polymer outer body and inner assembly fitted with a precision alignment sleeve. Multimode with metal sleeve. Single mode with ceramic sleeve.

### SC Duplex Adaptor

SC Duplex adaptors comprise of a polymer outer body and an inner assembly fitted with a precision alignment sleeve. Multimode with metal sleeve. Single mode with ceramic sleeve.

| Description | Connector | Adaptor |
|---|---|---|
| SC - MultiMode (Beige) | FOCSCEPMM001 | BHCSCMM001 |
| SC - Single Mode (Blue) | FOCSCEPSM001 | BHCSCSM001 |
| SC Duplex - Multi Mode (Beige) | FOCDCEPMM001 | BHCDCMM001 |
| SC Duplex - Single Mode (Blue) | FOCDCEPSM001 | BHCDCSM001 |

## ST, FC Optical Connectors

### ST Connector

ST connector kits comprise of a nickel plated zinc coupling body with a precision ceramic ferrule, crimp sleeve, 2 x colour coded 3mm strain reliefs and a 0.9mm boot.

### ST Adaptor

ST adaptors comprise of a nickel plated zinc die cast body with a precision alignment sleeve. They are both standard and double 'D' hole compatible. Multimode with metal sleeve. Single mode with ceramic sleeve.

### FC Adaptor

FC adaptors comprise of a nickel plated brass body that is fitted with a precision alignment sleeve. They are standard single and double 'D' hole compatible.

| Description | Connector | Adaptor |
|---|---|---|
| ST - Multi Mode | FOCSTEPMM001 | BHCSTMM001 |
| ST Single Mode | FOCSTEPSM001 | BHCSTSM001 |
| FC-PC Single Mode | FOCFCEPSM001 | BHCFCSM001 |

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## LC Optical Connectors

The range of Brand-Rex SFF (Small Form Factor) connectivity solutions are reliable and robust, quality products. SFF connectors are duplex fibre connectors which have a footprint similar to RJ-45's, offering the system integrator / installer an improved patching density, saving valuable rack space. The products can be used at the panel or in the work area supporting both backbone fibre and fibre to the desk solutions. Brand-Rex offers a choice of leading, de-facto, SFF connectors, the MT-RJ and the LC.

**LC Connector:**
LC multimode and single mode connector kits comprise of a precision ferrule, crimp sleeve, colour coded outer shroud, 2 x colour coded 2.0mm strain reliefs (..001) or a 0.9mm (..002) boot.
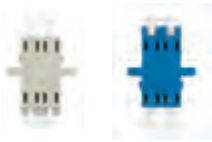
**LC Duplex Adaptor:**
LC adaptors (BHCLCXM001) comprise of a polymer body with a a precision alignment sleeve. They have the outer dimensions of a simplex SC style adaptor.
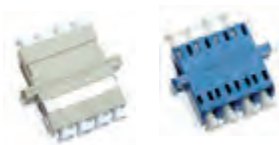
**LC Quad Adaptor:**
LC adaptors (BHCL4XM001) comprise of a polymer body with precision alignment sleeves. They have the outer dimensions of a duplex SC style adaptor.

| Description | Connector | Adaptor |
|---|---|---|
| LC Multimode (Duplex) (Beige) | FOCLCEPMM001 | BHCLCMM001 |
| LC Single Mode (Duplex) (Blue) | FOCLCEPSM001 | BHCLCSM001 |
| LC Multimode (Simplex) (Beige) | FOCLSEPMM001 | - |
| LC Single Mode (Simplex) (Blue) | FOCLSEPSM001 | - |
| LC Multimode (Simplex Pigtail) (Beige) | FOCLSEPMM002 | - |
| LC Single Mode (Simplex Pigtail) (Blue) | FOCLSEPSM002 | - |
| LC Multimode (Quad) Beige | - | BHCL4MM001 |
| LC Single Mode (Quad) (Blue) | - | BHCL4SM001 |
| MT RJ adaptor | - | BHCMJXX001 |

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## Secure LC Patch Cord System

The Secure Lock system comprises of a secure patch cord, blank adaptor plug and extraction tool. The Secure LC patch cord prevents unauthorised port access or changes as it can only be removed using a unique keyed extraction tool, making it ideal for creating a secure area within Data centres and IT networks. The Duplex LC patch cords will plug into any industry compliant Duplex and Quad adaptors or active interfaces. The locking plug closes off ports, restricting access and offering dust protection. When fitted, the plug can only be removed with the correct the tool. The keyed extraction tool unlocks and releases the connectors from ports. Keys are available for custom applications and can be customised to only release the same coloured LC connector or blank adapter plug.

| Description | Length | Part Number* |
|---|---|---|
| LC Duplex Single Mode Secure Patch Cord | 1m | OLPLC008010LCzzz |
| LC Duplex Single Mode Secure Patch Cord | 2m | OLPLC008020LCzzz |
| LC Duplex Single Mode Secure Patch Cord | 3m | OLPLC008030LCzzz |
| LC Duplex Single Mode Secure Patch Cord | 5m | OLPLC008050LCzzz |
| LC Duplex OM3 Multimode Secure Patch Cord | 1m | OLPLCOM3010LCzzz |
| LC Duplex OM3 Multimode Secure Patch Cord | 2m | OLPLCOM3020LCzzz |
| LC Duplex OM3 Multimode Secure Patch Cord | 3m | OLPLCOM3030LCzzz |
| LC Duplex OM3 Multimode Secure Patch Cord | 5m | OLPLCOM3050LCzzz |
| LC Duplex OM4 Multimode Secure Patch Cord | 1m | OLPLCOM4010LCzzz |
| LC Duplex OM4 Multimode Secure Patch Cord | 2m | OLPLCOM4020LCzzz |
| LC Duplex OM4 Multimode Secure Patch Cord | 3m | OLPLCOM4030LCzzz |
| LC Duplex OM4 Multimode Secure Patch Cord | 5m | OLPLCOM4050LCzzz |
| Secure Patch Cord Blank Adaptor Plug | n/a | OLCLCBLK-xxx |
| Secure Patch Cord Master Extraction Key (Violet)** | n/a | OLCLCTOOL-015 |

*zzz= connector colour - Red (001), Black (002), White (003), Green (005), Yellow (006), Grey (008), Orange (009), Aqua (051).
** Part is also available for custom applications with Key colour matched to the connector colour

## KeyQuick® Mechanical Splice

KeyQuick® Mechanical Splice is an innovative, quick and easy to use mechanical splice. The full field termination solution includes mechanical splice and splice holders as well as universal connectors and is designed to offer installers a fast, accurate and user friendly splicing process.
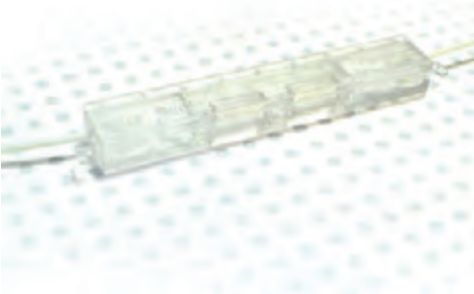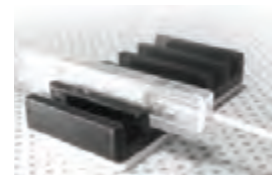
| Description | Part Number |
|---|---|
| KeyQuick® Mechanical Splice 250µm, 900µm | FPCMS001 |
| KeyQuick® Mechanical Splice Holder | FPCMSH06 |
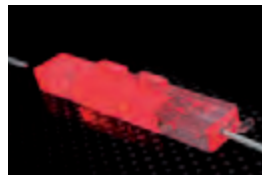
Before connection

After connection

Splice Holder

## KeyQuick® KQ10 Field Installable Connectors

KeyQuick® Field Installable KQ10 Connectors offer an innovative solution for onsite connector terminations. The SC connectors are ideal for backbone, horizontal and FTTH applications, offering an easy, fast, accurate and user friendly connector splicing process.
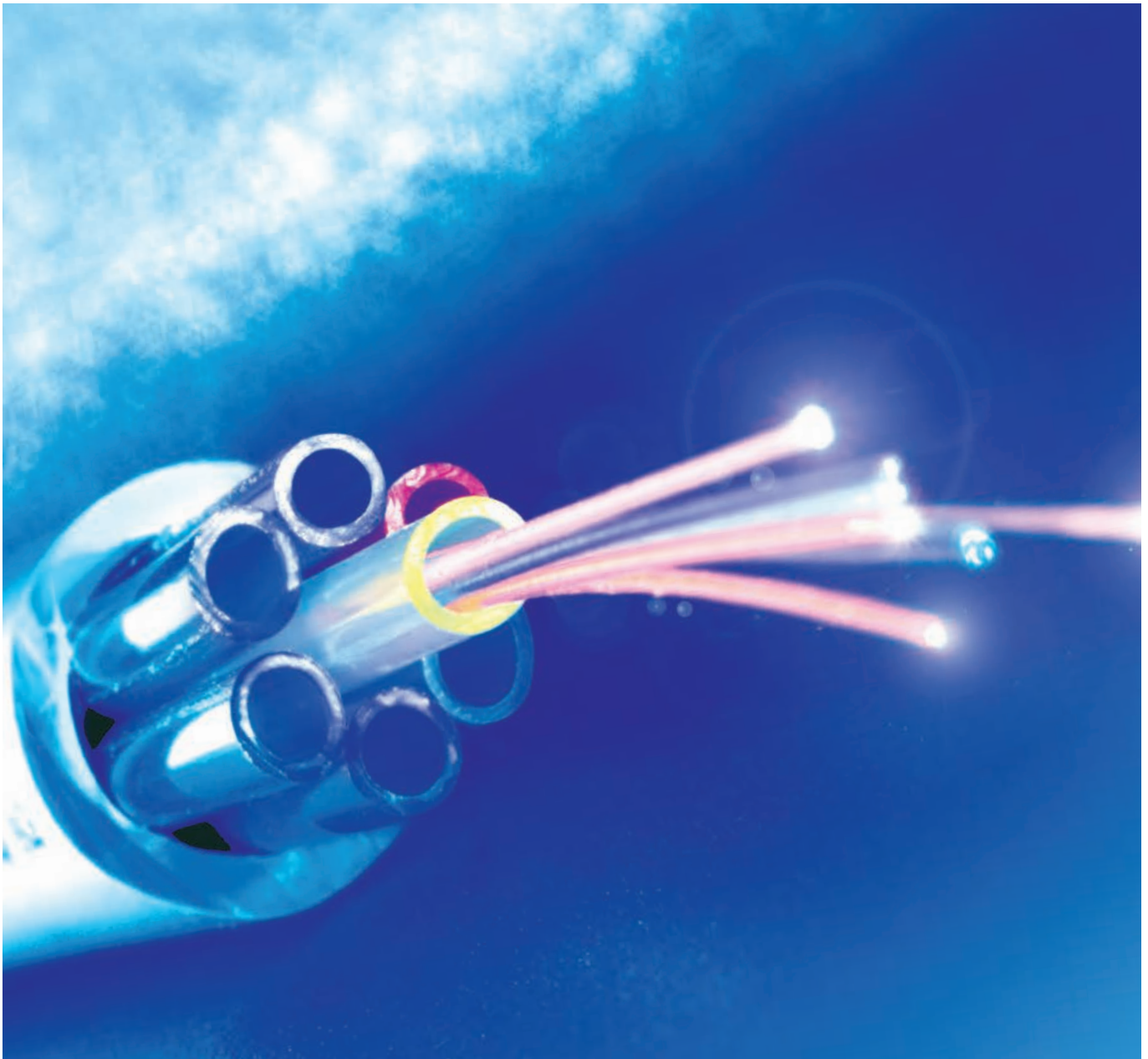
| Description | Part Number |
|---|---|
| KeyQuick® SC APC Single Mode Connector  - Universal G652D | FOCACFT008001 |
| KeyQuick® SC UPC Single Mode Connector - Universal G652D | FOCUCFT008001 |
| KeyQuick® SC UPC Multimode Connector - Universal 62.5/125 | FOCUCFT062001 |
| KeyQuick® SC UPC Multimode Connector - Universal 50/125 OM3 | FOCUCFTOM3001 |
| KeyQuick® SC UPC Multimode Connector - Universal 50/125 OM4 | FOCUCFTOM4001 |

Before connection

After connection

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Customer requirements in the ever-advancing communications market continues to grow, stretching scarce bandwidth resources and truly testing the performance of today's networks.

In choosing cabling system solutions, whether for small, medium or large multi site locations, server farms or co-location datacentres, network planners have some serious issues to consider. Among these is the decision as to which type and mix of fibre to install to allow for network expansion and upgrades which has been a dilemma for many years.

In the past, industry practice has been to install 'dark fibre' to meet future demands, however, this strategy is by no means risk-free as unterminated, untested fibres may not be fit for purpose when the time comes to light the fibres in the future. Fortunately there is a simple and cost effective solution - Brand-Rex Air Blown Fibre Systems offer solutions for both Internal and External applications with their market leading Blolite and MicroBlo. The use of Air Blown Fibre Systems gives complete freedom from risk by pre-installing a ducting route and then blowing in the fibre element (and paying for it) only when required.

The Blolite system was one of the first Air Blown Fibre systems, it is also regarded as the 'industry standard' Air Blown Fibre System. The Blolite system is very versatile with backbone and / or fibre to the desk links and can even allow for long distance links of up to 1km. Blolite is easily installed, by using compressed air, there is no disruption to the workplace, Blolite fibres are simply terminated and are compatible with all standard optical connectors.

Blolite is also extremely reliable, with a zero failure rate since the first installations in 1988 - truly an 'insurance policy' for high speed networks. It is no surprise that major users such as Manchester Airport, IBM, Ericsson, GlaxoSmithKline (GSK), the British MoD, Aerospatiale, Pfizer and even the US Navy have taken advantage of the system.

## BIolite Single Blown Fibre Elements

The BIolite system offers a complete range of high quality single mode and multimode optical fibres, with a blowable coating and fibre, is strippable with standard tools and is compatible with standard connector types. BIolite fibre is available in twelve standard colours and is supplied on plastic spools in 2km or 4km lengths for installation into BIolite 3mm, 5mm and 8mm MicroDuct by trained and licensed BIolite installers using the IM2000 blow head.

| | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| White | 10-0101-03 | 10-0005-03 | 10-0003-03 | 10-0004-03 | 10-0200-03 |
| Black | 10-0101-05 | 10-0005-05 | 10-0003-05 | 10-0004-05 | 10-0200-05 |
| Blue | 10-0101-06 | 10-0005-06 | 10-0003-06 | 10-0004-06 | 10-0200-06 |
| Orange | 10-0101-07 | 10-0005-07 | 10-0003-07 | 10-0004-07 | 10-0200-07 |
| Green | 10-0101-08 | 10-0005-08 | 10-0003-08 | 10-0004-08 | 10-0200-08 |
| Red | 10-0101-09 | 10-0005-09 | 10-0003-09 | 10-0004-09 | 10-0200-09 |
| Grey | 10-0101-10 | 10-0005-10 | 10-0003-10 | 10-0004-10 | 10-0200-10 |
| Yellow | 10-0101-11 | 10-0005-11 | 10-0003-11 | 10-0004-11 | 10-0200-11 |
| Brown | 10-0101-12 | 10-0005-12 | 10-0003-12 | 10-0004-12 | 10-0200-12 |
| Violet | 10-0101-13 | 10-0005-13 | 10-0003-13 | 10-0004-13 | 10-0200-13 |
| Pink | 10-0101-14 | 10-0005-14 | 10-0003-14 | 10-0004-14 | 10-0200-14 |
| Turquoise | 10-0101-15 | 10-0005-15 | 10-0003-15 | 10-0004-15 | 10-0200-15 |

## BIolite Internal MultiDucts

To facilitate the installation of BIolite single blown fibres a range of multi-way MicroDucts into which BIolite fibres can be blown are availible. The internal range of these MicroDucts are constructed with the standard BIolite MicroDuct surrounded with a layer of polyester tape and a LSHF outer sheath making them suitable for internal applications.

### Microduct size = 3/2.1mm

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1w 3/2.1mm (PO)-I | 5.0 | BL01IN0321 |
| 4w 3/2.1mm (PO)-I | 9.3 | BL04IN0321 |
| 7w 3/2.1mm (PO)-I | 11.7 | BL07IN0321 |
| 12w 3/2.1mm (PO)-I | 15.2 | BL12IN0321 |
| 19w 3/2.1mm (PO)-I | 17.7 | BL19IN0321 |

### Microduct size = 5/3.5mm

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1w 5/3.5mm (LSHF)-I | 5.0 | BL01IN0535 |
| 2w 5/3.5mm (LSHF)-I | 7.5 x 13.0 | BL02IN0535 |
| 4w 5/3.5mm (LSHF)-I | 15.2 | BL04IN0535 |
| 7w 5/3.5mm (LSHF)-I | 18.6 | BL07IN0535 |
| 12w 5/3.5mm (LSHF)-I | 24.0 | BL12IN0535 |
| 19w 5/3.5mm (LSHF)-I | 29.6 | BL19IN0535 |

### Microduct size = 8/6mm

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1w 8/6mm (LSHF)-I | 8.0 | BL01IN0806 |
| 2w 8/6mm (LSHF)-I | 10.5 x 19.0 | BL02IN0806 |
| 4w 8/6mm (LSHF)-I | 23.0 | BL04IN0806 |
| 7w 8/6mm (LSHF)-I | 27.6 | BL07IN0806 |
| 12w 8/6mm (LSHF)-I | 36.0 | BL12IN0806 |

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## Blolite Direct Intall MultiDucts

To facilitate the installation of Blolite single blown fibres a range of multi-way MicroDucts into which Blolite fibres can be blown are available. The external range of these MultiDucts are constructed with the standard Blolite MicroDuct surrounded with a layer of Polyester tape and a Polyethylene outer sheath making them suitable for direct install applications.

### Microduct size = 5/3.5mm

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1w 5/3.5mm (LSHF)-O | 7.5 | BL01DI0535 |
| 2w 5/3.5mm (LSHF)-O | 7.5 x 13.0 | BL02DI0535 |
| 4w 5/3.5mm (LSHF)-O | 15.2 | BL04DI0535 |
| 7w 5/3.5mm (LSHF)-O | 18.6 | BL07DI0535 |
| 12w 5/3.5mm (LSHF)-O | 24.0 | BL12DI0535 |
| 19w 5/3.5mm (LSHF)-O | 29.6 | BL19DI0535 |

### Microduct size = 8/6mm

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1w 8/6mm (LSHF)-O | 10.5 | BL01DI0806 |
| 2w 8/6mm (LSHF)-O | 10.5 x 19.0 | BL02DI0806 |
| 4w 8/6mm (LSHF)-O | 23.0 | BL04DI0806 |
| 7w 8/6mm (LSHF)-O | 27.6 | BL07DI0806 |
| 12w 8/6mm (LSHF)-O | 36.0 | BL12DI0806 |

## 2-12 Fibre Blown Micro Cable

Microduct cabling systems are popular solutions for building flexibility into a network, they can be populated when needed and leave spare capacity for future growth. The ability to defer initial installation costs is a key advantage of an air blown cable installation over traditional cable installations. The MicroBlo air blown loose tube microduct cable is available with fibre counts from 2 to 12 in a 2.5 mm diameter package. The cable has been specifically designed and developed for improved installation efficiency in pre-installed 5/3.5 mm microducts using existing air blown installation techniques.

| | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 2 fibre | HF062BMC2WNM3 | HF050BMC2WNM3 | HFOM3BMC2WNM3 | HFOM4BMC2WNM3 | HF008BMC2WNM3 |
| 4 fibre | HF062BMC4WNM3 | HF050BMC4WNM3 | HFOM3BMC4WNM3 | HFOM4BMC4WNM3 | HF008BMC4WNM3 |
| 6 fibre | HF062BMC6WNM3 | HF050BMC6WNM3 | HFOM3BMC6WNM3 | HFOM4BMC6WNM3 | HF008BMC6WNM3 |
| 8 fibre | HF062BMC8WNM3 | HF050BMC8WNM3 | HFOM3BMC8WNM3 | HFOM4BMC8WNM3 | HF008BMC8WNM3 |
| 12 fibre | HF062BMC12WNM3 | HF050BMC12WNM3 | HFOM3BMC12WNM3 | HFOM4BMC12WNM3 | HF008BMC12WNM3 |

## 12-72 Fibre Blown Micro Cable

Microduct cabling systems are popular solutions for building flexibility into a network, they can be populated when needed and leave spare capacity for future growth. The ability to defer initial installation costs is a key advantage of an air blown cable installation over traditional cable installations.

The MicroBlo air blown loose tube microduct cable is available with fibre counts from 12 to 72 in a 6.0 mm diameter package. The micro cable is constructed of a non metallic, resin bonded glass central strength member and high density polyethylene sheath. The cable has been specifically designed and developed for improved installation efficiency in pre-installed 10/8 mm microducts using existing air blown installation techniques. Dry water blocking technology ensures the cable cores are fully water blocked.

| | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 12 fibre | HF062BMC12WNM6 | HF050BMC12WNM6 | HFOM3BMC12WNM6 | HFOM4BMC12WNM6 | HF008BMC12WNM6 |
| 24 fibre | HF062BMC24WNM6 | HF050BMC24WNM6 | HFOM3BMC24WNM6 | HFOM4BMC24WNM6 | HF008BMC24WNM6 |
| 36 fibre | HF062BMC36WNM6 | HF050BMC36WNM6 | HFOM3BMC36WNM6 | HFOM4BMC36WNM6 | HF008BMC36WNM6 |
| 48 fibre | HF062BMC48WNM6 | HF050BMC48WNM6 | HFOM3BMC48WNM6 | HFOM4BMC48WNM6 | HF008BMC48WNM6 |
| 60 fibre | HF062BMC60WNM6 | HF050BMC60WNM6 | HFOM3BMC60WNM6 | HFOM4BMC60WNM6 | HF008BMC60WNM6 |
| 72 fibre | HF062BMC72WNM6 | HF050BMC72WNM6 | HFOM3BMC72WNM6 | HFOM4BMC72WNM6 | HF008BMC72WNM6 |

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## Up to 96 Fibre Micro Cable

Microduct cabling systems are popular solutions for building flexibility into a network, they can be populated when needed and leave spare capacity for future growth. The ability to defer initial installation costs is a key advantage of an air blown cable installation over traditional cable installations. The MicroBlo air blown loose tube microduct cable is available with fibre counts of 84 and 96 fibres in a 7.0mm diameter package. The cable has been specifically designed and developed for improved installation efficiency in pre-installed 12 /9.4 mm microducts using existing air blown installation techniques. Dry water blocking technology ensures the cable cores are fully water blocked.

|  | OM1 | OM2 | OM3 | OM4 | OS1/OS2 |
|---|---|---|---|---|---|
| 84 fibre | HF062BMC84WNM8 | HF050BMC84WNM8 | HFOM3BMC84WNM8 | HFOM4BMC84WNM8 | HF008BMC84WNM8 |
| 96 fibres | HF062BMC96WNM8 | HF050BMC96WNM8 | HFOM3BMC96WNM8 | HFOM4BMC96WNM8 | HF008BMC96WNM8 |

## MicroBlo Direct Install Protected MicroDucts

Microduct cabling systems are popular solutions for building flexibility into a network, they can be populated when needed and leave spare capacity for future growth. The ability to defer initial installation costs is a key advantage of an air blown cable installation over traditional cable installations.

To facilitate the installation of MicroBlo Microcables, a range of Protected Microducts (multiways) into which Microcables can be blown are available. The Direct Install range of Protected Microducts are constructed with standard individual microducts with a PE sheathing for installation into existing duct and sub-ducting infrastructure.

### Microduct size = 5/3.5mm Outer diameter/Bore

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1W 5/3.5mm | 5 | MB01DI0535 |
| 2W 5/3.5mm | 11.5 | MB02DI0535 |
| 4W 5/3.5mm | 13.6 | MB04DI0535 |
| 7W 5/3.5mm | 16.5 | MB07DI0535 |
| 12W 5/3.5mm | 21.5 | MB12DI0535 |
| 19W 5/3.5mm | 26.5 | MB19DI0535 |

### Microduct size = 10/8mm Outer diameter/Bore

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1W 10/8mm | 10 | MB01DI1008 |
| 2W 10/8mm | 21.5 | MB02DI1008 |
| 4W 10/8mm | 25.6 | MB04DI1008 |
| 7W 10/8mm | 31.5 | MB07DI1008 |
| 12W 10/8mm | 41.5 | MB12DI1008 |

### Microduct size = 12/10mm Outer diameter/Bore

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1W 12/10mm | 12 | MB01DI1210 |
| 2W 12/10mm | 25.5 | MB02DI1210 |
| 4W 12/10mm | 30 | MB04DI1210 |
| 7W 12/10mm | 37.5 | MB07DI1210 |

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## MicroBlo Direct Burial Protected MicroDucts

Microduct cabling systems are popular solutions for building flexibility into a network, they can be populated when needed and leave spare capacity for future growth. The ability to deferinitial installation costs is a key advantage of an air blown cable installation over traditional cable installations.

To facilitate the installation of MicroBlo Microcables, a range of Protected Microducts (multiways) into which Microcables can be blown are available. The Direct Burial range of Protected Microducts are constructed with thick wall, direct burial individual microducts with an overall HDPE sheathing making them suitable for direct burial applications.

### Microduct size = 7/3.5mm Outer diameter/Bore

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1W 7/3.5mm | 7 | MB01DB0735 |
| 2W 7/3.5mm | 15.5 | MB02DB0735 |
| 4W 7/3.5mm | 18.4 | MB04DB0735 |
| 7W 7/3.5mm | 22.5 | MB07DB0735 |
| 12W 7/3.5mm | 29.5 | MB12DB0735 |
| 19W 7/3.5mm | 36.5 | MB19DB0735 |
| 24W 7/3.5mm +1W 14/10mm | 43 | MB24DB0735 |

### Microduct size = 12/8mm Outer diameter/Bore

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1W 12/8mm | 12 | MB01DB1208 |
| 2W 12/8mm | 25.5 | MB02DB1208 |
| 4W 12/8mm | 30 | MB04DB1208 |
| 7W 12/8mm | 37.5 | MB07DB1208 |

### Microduct size = 14/10mm Outer diameter/Bore

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1W 14/10mm | 14 | MB01DB1410 |
| 2W 14/10mm | 29.5 | MB02DB1410 |
| 4W 14/10mm | 35 | MB04DB1410 |
| 7W 14/10mm | 43.5 | MB07DB1410 |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## MicroBlo Indoor Protected MicroDucts

Microduct cabling systems are popular solutions for building flexibility into a network, they can be populated when needed and leave spare capacity for future growth. The ability to defer initial installation costs is a key advantage of an air blown cable installation over traditional cable installations.

To facilitate the installation of Microblo Microcables, a range of Protected Microducts (multiways) into which Microcables can be blown are available. The Indoor range of Protected Microducts are constructed with Low Smoke Halogen Free microduct which are sheathed with an overall LSHF protective layer.  This product is ideal for providing access into a building and can be simply joined to a DI or DB Microduct to allow the cable to be blown straight from outside into the building.

### Microduct size = 5/3.5mm Outer diameter/Bore

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1W 5/3.5mm | 5 | MB01IN0535 |
| 2W 5/3.5mm | 11.5 | MB02IN0535 |
| 4W 5/3.5mm | 13.6 | MB04IN0535 |
| 7W 5/3.5mm | 16.5 | MB07IN0535 |
| 12W 5/3.5mm | 21.5 | MB12IN0535 |
| 19W 5/3.5mm | 26.5 | MB19IN0535 |

### Microduct size = 10/8mm Outer diameter/Bore

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1W 10/8mm | 10 | MB01IN1008 |
| 2W 10/8mm | 21.5 | MB02IN1008 |
| 4W 10/8mm | 25.6 | MB04IN1008 |
| 7W 10/8mm | 31.5 | MB07IN1008 |
| 12W 10/8mm | 41.5 | MB12IN1008 |

### Microduct size = 12/10mm Outer diameter/Bore

| Description | Diameter (mm) | Part Number |
|---|---|---|
| 1W 12/10mm | 12 | MB01IN1210 |
| 2W 12/10mm | 25.5 | MB02IN1210 |
| 4W 12/10mm | 30 | MB04IN1210 |
| 7W 12/10mm | 37.5 | MB07IN1210 |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Blolite and MicroBlo Microduct Connectivity

Within MicroBlo and Blolite a range of plastic bodied pneumatic tube connectors are used for tube routing.  The connectors have a variety of forms and are all rated for the maximum working pressure of 10 Bar. The connectors are installed with a simple push-pull technique and can be re-used several times.

For Part numbers see next page.

**Straight Connector (push-pull mechanism)**
For connecting 2 equal size microducts.

**Straight Screw Connector (Screw mechanism)**
For connecting 2 equal size microducts and eliminating movement at joint.

**End Stop**
For blocking of the end of a redundant tube or temporary sealing.

**3mm Straight Connector**
For connecting 2 equal size microducts.

**End Plug**
For blocking a straight connector when a later connection is required.

**Bulkhead Connector**
For attaching a microduct to a panel or wall box.

**Dust Cap**
For preventing the ingress of dust during installation.

**Gas Blocking 'T'**
For use with resin to provide a gas blocking seal where required.

**8mm - 5mm Reducer**
To reduce from 8mm - 5mm MicroDuct at termination point.

**Termination Splitter / Stem Converter**
For use at the end of a duct route to divert fibres into different termination points.

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Blolite and MicroBlo Microduct Connectivity

| Connector Type | 3/2.1 mm | 5/3.5 mm | 7/3.5 mm | 8/6 mm | 10/8 mm | 12/8 mm | 12/9.4 mm | 14/9.4 mm |
|---|---|---|---|---|---|---|---|---|
| Straight - Push/Pull | 30-0301-00 | 30-0501-00 | 30-0721-00 | 30-0801-00 | 30-1001-00 | 30-1221-00 | 301201-00 | 30-1421-00 |
| Straight - Screw Retention | - | 30-0502-00 | | 30-0802-00 | - | - | - | - |
| End Stop | 30-0304-00 | 30-0504-00 | 30-0704-00 | 30-0804-00 | 30-1004-00 | 30-1204-00 | 30-1204-00 | 30-1404-00 |
| Connector End Plug | - | 30-0505-09 | | 30-0805-09 | - | - | - | - |
| Bulkhead Mounted Connector | - | 30-0506-09 | | - | - | - | - | - |
| Dust Cap | 30-0307-05 | 30-0507-05 | 30-0707-05 | 30-0807-05 | 30-1007-05 | 30-1207-05 | 30-1207-05 | 30-1407-05 |
| Gas Blocking 'T' Piece | - | 30-0508-00 | | 30-0808-00 | - | - | - | - |
| 8mm to 5mm Reducer | - | 30-5801-00 | | - | - | - | - | - |
| Standard to Direct Burial mating connector | - | - | 30-5701-00 (7/3.5mm to 5/3.5mm) | - | - | 30-0201-00 (12/8mm to 10/8mm) | - | 30-2401-00 (14/9.4mm to 12/9.4mm) |
| Termination Fibre Diverter | - | - | - | 30-0809-05 - | - | - | - | - |
| 8mm to 5mm Stem Converter | - | 30-5810-05 | - | - | - | - | - | - |
| Water Blocking Straight | - | 30-0503-00 | - | | 30-1003-00 | - | 30-1203-00 | - |

## Tools



**Radial Tube Cutter**

54-0100-00



**Duct Stripping Tool 19.0mm - 40.00mm**

54-0201-00



**Duct Stripping Tool 4.5mm - 29.00mm**
**Duct Stripping Tool Spare Blades (**54-0300-00**)**

54-0202-00



**Duct Testing Kit**

50-0506-00

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## HIGH DENSITY – DESIGN EXCELLENCE

HI-DEX is an ultra high performance, pre-terminated, modular, Optical Fibre cabling system based on MT ferrule connector technology.

This product set is ideally suited for installation in the data centre where multiple, point to point, fibre connections between distribution racks and equipment racks can be quickly and efficiently installed and where an upgrade path to multi lane higher speed transmissions is required.

This extensive suite of products provides future proofing for multi-gigabit fibre channel infiniband and Ethernet technologies.

**HI-DEX benefits:**

• Unrivaled Accessibility

• Superior Performance

• Maximised Density

• Super Fast Deployment

• Future Proofed Technology

HI-DEX is assembled with standards compliant component products which are designed and manufactured to conform to the requirements of the structured wiring cabling and data centre standards:

• ISO/IEC 11801:2002 & amendements 1 & 2

• EN 50173-1,TIA 568C series cabling standards

• Data Centre IEC 24764, EN 50173-5 and TIA 942

The use of premium grade fibre, low loss LC and low loss MTP® elite connectors allows the designer the flexibility to configure multi-connector links and travel longer distances while still maintaining the challenging optical budget for higher speed Ethernet applications.

## Panel Set

The HI-DEX panel set is based around a 19" 1U panel which can accommodate up to six interchangeable cassettes. The cassettes are mounted on sliding runners which allow each cassette to be brought forward independently of the others, providing unrestricted access to every port. The subdivision of the cassettes facilitates the routing of patchcords to both sides of the panel in order to simplify the management of the patchcords. The addition of a bridge piece ties each row together to provide single-sided routing where required. The front door protects the patches when not in use and provides generous labelling space on both the front and rear faces.

| Description | Part Number |
|---|---|
| HI-DEX 19" 1U Panel in Black | HDXPNL2 |
| HI-DEX 19" 1U Panel in Grey | HDXPNL8 |
| HI-DEX 19" 1U Cable Manager in Black | HDXM1U2 |
| HI-DEX 19" 1U Cable Manager in Grey | HDXM1U8 |
| HI-DEX 1U Finger Managment in Black | HDXMNF2 |
| HI-DEX 1U Finger Managment In Grey | HDXMNF8 |

## 24 Fibre Cassettes

HI-DEX closed cassettes provide 24 fibre MTP-to-LC patches per cassette, giving a maximum density of 144 LC fibres in 1U. HI-DEX closed cassettes have two 12-fibre MTP adaptors on the rear and 12 LC duplex adaptors on the front. The LC adaptors feature an integrated shutter which provides both dust and laser protection. The HI-DEX cassette features printed port identification in addition to a supplementary patch labelling area. Innovative B-polarity cassettes provide alpha and beta configurations within a single unit which is flipped to transition between alpha and beta configurations.

| Description | Part Number |
|---|---|
| HI-DEX 2x12 MTP-LC OM4 Cassette in Grey B Polarity | HDXBBTMLCOM424 |
| HI-DEX 2x12 MTP-LC OM3 Cassette in Grey B Polarity | HDXBBTMLCOM324 |
| HI-DEX 2x12 MTP-LC APC Cassette in Grey B Polarity | HDXBBTMALC10824 |
| HI-DEX 2x12 MTP-LC SM Cassette in Grey B Polarity | HDXBBTMLC10824 |
| HI-DEX 2x12 MTP-LC OM4 Cassette in Grey B Polarity | HDXACTMLCOM424 |
| HI-DEX 2x12 MTP-LC OM3 Cassette in Grey B Polarity | HDXACTMLCOM324 |
| HI-DEX 2x12 MTP-LC APC Cassette in Grey B Polarity | HDXACTMAL10824 |
| HI-DEX 2x12 MTP-LC SM Cassette in Grey B Polarity | HDXACTMLC10824 |

### Polarity Choices Ordering Information

| Product Set | Cable Type | Polarity | MTP Adaptor Type | LC Adaptor Type | Fibre Count |
|---|---|---|---|---|---|
| HDX = HI-DEX | AC = A and C Polarity<br>BB = B Polarity | TM = MTP<br>Adaptor with Pins | LC = UPC LC<br>AL = APC LC | OM3<br>OM4<br>108 | 24 |

Example Part No: HDXBBTMLCOM424 HI-DEX 24-Fibre B-Polarity OM4 MTP® (With Pins) to LC Cassette

## Open Cassettes

HI-DEX open cassettes provide 24 fibre LC presentation or 144 fibre MTP presentation in a single cassette, giving a maximum density of 144 LC fibres or 864 MTP fibres in 1U. Available in single mode and both OM3 and OM4 multimode, HI-DEX open cassettes can be configured with opposed or aligned MTP adaptors or UPC or APC LC adaptors. HI-DEX open cassettes provide an added element of cable management.

| Description | Part Number |
|---|---|
| HI-DEX Opposed Key MTP Open Cassette in Grey | HDXOCAM144 |
| HI-DEX Aligned Key MTP Open Cassette in Grey | HDXOCBM144 |
| HI-DEX Singlemode LC Open Cassette in Grey | HDXOCLC10824 |
| HI-DEX OM3 LC Open Cassette in Grey | HDXOCLCOM324 |
| HI-DEX OM4 LC Open Cassette in Grey | HDXOCLCOM424 |
| HI-DEX Blank Open Cassette in Grey | HDXOCBLK |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## Zero U Accessories

The HI-DEX product range includes additional accessory panels which extend the use of HI-DEX beyond traditional U-based racks.

| Description | Part Number |
|---|---|
| HI-DEX Side Rack Consolidation Point in Black (3 cassettes) | HDXZSR2 |
| HI-DEX Cable Tray Consolidation Point in Black (3 cassettes) | HDXZCT2 |
| HI-DEX 3U Hanging Rack Frame in Black | HDXZHR2 |
| HI-DEX 3U Under Floor Frame in Black | HDXZUF2 |

## MTP to MTP Cable Assemblies

Cable assemblies are made up of 12 fibre LSHF jacketed cables terminated at both ends in MTP Low Loss connectors which can be loomed together to offer increased fibre counts of 24 and 48 fibres. The assemblies can be used as backbone or horizontal cable interconnections between distribution racks and are available in a range of performance levels to suit the needs of the network. Cable assemblies are supplied in standard lengths of 1, 3, 5, 10, 20, 30, 50 and 100m. Custom lengths are also available on request. The assemblies are delivered as coils in lengths up to 50m long and on reels in lengths over 50m. Singlemode cables are yellow; multimode are either aqua (OM3) or heather-violet (OM4).

Part Number Breakdown

| MTP® connector | Cable Type | Cable assembly polarity scheme | MTP® Low Loss connector | Cable performance | No of fibres(1) | Length (m) |
|---|---|---|---|---|---|---|
| S T, or<br>S TM (with pins) | Compact = C | A<br>B<br>C | T, or<br>TM (with pins) | OM3 or<br>OM4, or<br>108* | 12<br>24<br>48 | ZZZ Z |

*SMF terminations are angled polished*

Example Part Number: STCBTOM4120050 = Pre-Terminated MTP-MTP assembly (unpinned), B polarity, OM4 12 fibre, 5m overall length

## Breakout Cable Assemblies

The micro-distribution cables used in the cable array assemblies are smaller and lighter than conventional optical cable products. This offers the added benefits of reducing the space taken in pathways, lightening loads in trays, and minimising the possibility of adversely affecting cooling under-floor air flows by creating air dams in cable pathways. MTP® Hybrid breakout units are made up of 12 fibres LSHF jacketed cables terminated at one end in pinned MTP® Low Loss uniboot connectors. This passes through a bifurcation unit, to LC duplex low loss connectors (high precision SM tolerance versions) terminated to 2mm OD simplex cables. These are used to connect equipment in racks to MTP® terminated backbone cables. The assemblies are available in OM3, OM4 and OS2 performance grade fibre.

Product Part Numbers

| MTP® Low Loss connector with pins(2) | Duplex Low Loss connector | Cable performance | Number of fibres | Overall length (m)(1) |
|---|---|---|---|---|
| HT - MTP without pins<br>HTM - MTP with pins | LC | OM3 or<br>OM4 or<br>108 | 12 | ZZZ |

(1) breakout unit legs are a standard 1m long,   (2) SMF terminations are angled polished

Example Part Number: HTMLCOM412020 = Pre-Terminated MTP-LC uni-boot breakout assembly (pinned), OM4 12 fibre, 2m overall length

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**
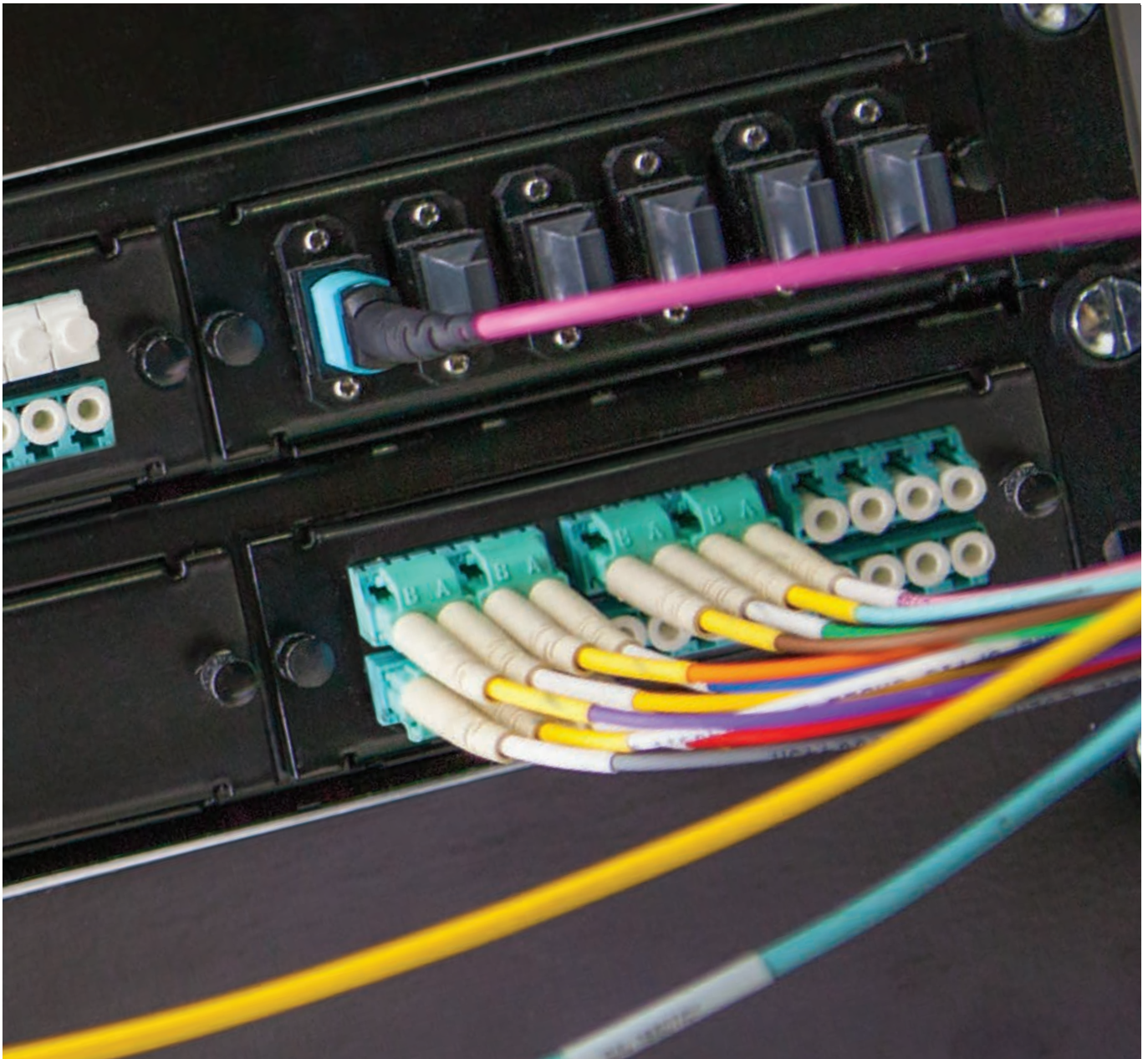
MT Connect is a high performance, pre-terminated, modular, Optical Fibre cabling system based on MT ferrule connector technology. MT ferrule is the building block of the system, it accommodates up to 12 fibres in a single ferrule. The array is made of a precision moulded thermoplastic and uses metal guide pins, precise housing dimensions and keying to ensure fibre alignment and maintenance of polarity when mating. The housing uses a push-pull latching mechanism, with audible click, to ensure proper connection.

Our product set may be used in the general office to speed the installation of backbone cabling links, in horizontal fibre to the desk or in the datacentre where multiple, point to point, fibre connections between distribution racks and equipment racks can be quickly and efficiently installed, maintained and changed as required.

The MT Connect system has unique advantages over conventional optical fibre cabling:

• Pre-terminated cables with 12 fibres per connector ensure faster installation of multiple fibre links.

• Smaller diameter cables saving space in pathways and racks giving more space for air circulation.

• Modular construction suited to the move, add and change environment and simple, fast maintenance and repair.

• End to end link performance and product quality assured by factory termination of connectors.

MT Connect is available in OM3, OM4 or OS1 performance grade cabling and comprises a set of parts which enable any configuration of link to be simply and quickly built.

## MTP

### Panel Assemblies

These modular panel assemblies are used to terminate backbone cables at the distributor or equipment outlet ends and also to interface to patch cords or equipment cords.

The 1U panel fits into standard 19" racks and accommodates up to 4 plug in units. LGX cassettes, MTP® adaptor plates, LC 24 fibre faceplates or blanking plates or 5 port Snap-in-Jack faceplates are available as units.

The 3U panel fits into standard 19" racks and accommodates up to 288 fibres using up to 12 cassettes to offer a high density solution. The panel can also accommodate 5 port Snap-in-Jack faceplates to offer a versatile hybrid configuration. Cable management is attached on to the front of the panel to act as a support for the cabling with the fixed labelling tray, located on the front of the panel.

The panels are ideal for data centre installations where multiple point to point fibre connections between distribution racks and racks can be installed, maintained and changed quickly and efficiently.

The MTP® system is simple and flexible and can accommodate up to 96 LC connections per U using LGX cassettes, or up to 288 connections per U using MTP® adaptor plates.

LGX cassettes are available in high performance OM3, enhanced OM4 and OS1/OS2 types.

| Description | Part Number |
|---|---|
| 19" 1U 4 Module MTP® Panel | MTPHD2 |
| 19" 3U 12 Module MTP® Panel | MTPHD3U122 |
| 24 fibre OM3 Cassette, 24 Low Loss LC's & 2 pinned MTP Adaptors | SCAHDTMLCOM3242 |
| 24 fibre OM4 Cassette , 24 Low Loss LC's & 2 pinned MTP Adaptors | SCAHDTMLCOM4242 |
| 24 fibre single mode Cassette | SCAHDTMLC008242 |
| 12 fibre OM3 Cassette,12 Low Loss LC's & 1 pinned MTP Adaptor | SCAHDTMLCOM3122 |
| 12 fibre OM4 Cassette,12 Low Loss LC's & 1 pinned MTP Adaptor | SCAHDTMLCOM4122 |
| 12 fibre O08/OS2 Cassette,12 Low Loss LC's & 1 pinned MTP Adaptor | SCAHDTMLC008122 |
| 5 Port Snap-in-Jack Faceplate for RJ45 jacks* | MTFHD5SIJ2 |
| 6 Way MTP® Adapter Faceplate | STFHDM62 |
| Blank Faceplate | MTFHDBLK2 |
| 24 Fibre LC Adapter Faceplate - SingleMode | MTFHDLCSM2 |
| 24 Fibre LC Adapter Faceplate - MultiMode | MTFHDLCMM2 |

### 5 Port Snap-in-Jack Faceplate Compatibility Chart

| Description | Part Number |
|---|---|
| Augmented Category 6 Shielded Tool free jack | AC6JAKS000DC |
| Category 6 Shielded Tool free jack | C6CJAKS000DC |
| Category 6 Unshielded Tool free jack | C6CJAKU002 |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
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10GPLUS | U-MEDIAPLUS | CAT6PLUS | GIGAPLUS | VOICE | ACCESSORIES | FIBREPLUS | BI-OLITE | MicroBio | HI-DEX | MTCONNECT | CABINETS | SMARTPATCH

## MTP

### Breakout Assemblies

MTP® Hybrid breakout units are made up of 12 fibres LSHF jacketed cables terminated at one end in pinned MTP® Low Loss connectors, through a bifurcation unit, to LC duplex low loss connectors (high precision SM tolerance versions) terminated to 2mm OD simplex cables.

These are used to connect equipment in racks to MTP® terminated backbone cables. The assemblies are available in OM3, enhanced OM4 and OS1/OS2 performance grade. Breakout Assemblies are also available with staggered leg lengths for ease of installation where the legs of the breakout assembly are tailored to fit; the part number then becomes a unique reference for the type of breakout required.

Please see examples below for ordering information.

Product Part Numbers

| MTP® Low Loss connector with pins(2) | Duplex Low Loss connector | Cable performance | Number of fibres | Overall length (m)[1] |
|---|---|---|---|---|
| ST, or STM (with pins) | LC | OM3 OM4 108 | 12 | ZZZ |

*(1) breakout unit legs are a standard 1m long    (2) SMF terminations are angled polished*

Example Part Number: STMLCOM312025 = Pre-Terminated MTP-LC duplex breakout assembly (pinned), OM3 12 fibre, 2.5m overall length

## MTP

### Cable Assemblies

Cable assemblies are made up of 12 fibre LSHF jacketed cables terminated at both ends in MTP® Low Loss connectors (without pins). They are ideal for use as back bone or horizontal cable interconnections between distribution racks.

The assemblies are available in OM3, enhanced OM4, and OS1/OS2 to suit the needs of every network.

The cable assemblies are available in standard lengths of 1, 3, 5, 10, 20, 30, 50 and 100m. Custom engineered lengths are also available on request. The assemblies are delivered as coils in lengths up to 50m and on reels in lengths over 50m.

Single mode cables are yellow.

OM3 Multimode cables are aqua.

OM4 Multimode cables are heather violet.

Part Number Breakdown

| MTP® connector | Cable Type | Cable assembly polarity scheme | MTP® Low Loss connector | Cable performance | No of fibres(1) | Length (m) |
|---|---|---|---|---|---|---|
| S T, or S TM (with pins) | Compact = C | A B C | T, or TM (with pins) | OM3, or OM4, or 108* | 12 24 48 | ZZZ Z |

*\* SMF terminations are angled polished*

Example Part Number: STCBTOM4120050 = Pre-Terminated MTP-MTP assembly (unpinned), B polarity, OM4 12 fibre, 5m overall length

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data. The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## MPO

### Panel Assemblies

Modular panel assemblies are used to terminate backbone cables at the distributor or the equipment outlet ends and also to interface to patch cords or equipment cords.

The 1U panel fits into standard 19" racks and accommodates up to 4 plug in units. LGX boxes, MPO adaptor plates , 5 Port Snap-in-Jack faceplates and blanking plates are available as units.

The system is simple and flexible and accommodates up to 288 fibre terminations in 1U. Up to 24 quad LC connections per U can be provided using LGX modules. Or, up to 288 connections per U can be achieved using 4 of the 6 way MPO adaptor plates.

The LGX boxes are available in high performance OM3, OM4 or OS1 (108) types.

| Description | Part Number |
|---|---|
| 19" Panel with four apertures on the front face for clipping in modules, blanks or adaptor plates | MTPHD2 |
| 19" Panel with twelve apertures in the front face for clipping in modules, blanks or adapter plates | MTPHD3U122 |
| LGX 'clip in' module with a pinned MPO at the rear, 12 LCs on the front face, OM3 performance | MTC AHD ML OM3 122 |
| LGX 'clip in' module with 2 pinned MPOs at the rear, 24 LCs on the front face, OM3 performance | MTC AHD ML OM3 242 |
| LGX 'clip in' module with a pinned MPO at the rear, 12 LCs on the front face, OM4 performance | MTC AHD ML OM4 122 |
| LGX 'clip in' module with 2 pinned MPOs at the rear, 24 LCs on the front face, OM4 performance | MTC AHD ML OM4 242 |
| LGX 'clip in' module with a pinned MPO at the rear, 12 LCs on the front face, OS1 performance | MTC AHD ML 008 122 |
| LGX 'clip in' module with 2 pinned MPOs at the rear, 24 LCs on the front face, OS1 performance | MTC AHD ML 008 242 |
| Adaptor Plate - clip in, with 6 'type A"key up' to 'key down' MPO/MTP adaptors | STFHDM62 |
| Blanking Plate - clip in, to cover open apertures on the panel front face | MTFHDBLK2 |
| 5 Port Snap-in-Jack Faceplate for RJ45 Jacks* | MTFHD5SIJ2 |

### 5 Port Snap-in-Jack Faceplate Compatibility Chart

| Description | Part Number |
|---|---|
| Augmented Category 6 Shielded Tool free jack | AC6JAKS000DC |
| Category 6 Shielded Tool free jack | C6CJAKS000DC |
| Category 6 Unshielded Tool free jack | C6CJAKU002 |

## MPO

### Breakout Assemblies

MPO hybrid breakout unit is made up a 12 fibre LSHF jacketed cable terminated at one end in MPO connectors, through a bifurcation unit, to SC or LC connectors terminated on 2mm OD simplex cables. These are used to connect equipment in racks to MPO terminated backbone cables. The assemblies are available in OM3, OM4 or OS1 (108) performance grade

**Ordering Information:**
The assemblies are available in standard lengths of 2m & 3m as standard. Custom engineered lengths are also available on request. The assemblies are delivered as coils.

### Part Number Breakdown:

| MPO Connector with pins | Duplex Connector | Cable performance | Number of fibres | Overall length (m)[1] |
|---|---|---|---|---|
| MTM | LC or SC | OM3 or OM4 or 108 | 12 | ZZ |

*(1) Breakout unit legs are a standard 1m long.*

Example Part Number: MTMLCOM31203 = Pre-Terminated MPO-LC assembly (pinned), OM3 12 fibre, 3m overall length

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

## MPO

### Cable Assemblies

An MPO cable assembly is made up of 12 fibre LSHF jacketed cable terminated at both ends in MPO connectors (without pins). These are used as backbone or horizontal cable interconnections between distribution racks. The assemblies are available in a range of performance levels (OM3, OM4 or OS1 (108) types) and in different lengths to suit the needs of the network.

**Ordering Information:**

Assemblies are available in standard lengths of 1, 3, 5, 10, 20, 30, 50 and 100m.
Custom engineered lengths are also available on request.
Assemblies are delivered as coils in lengths up to 50m long and on reels in lengths over 50m.

Singlemode cables are yellow.

OM3 Multi mode cables are aqua.

OM4 Multi mode cables are heather violet.

**Part Number Breakdown:**

| MPO Connector | Cable type | Cable Assembly | MPO Connector | Cable performance | Number of fibres(1) | ZZZ |
|---|---|---|---|---|---|---|
| MT or MTM (with pins) | C = compact cable | A B C | MT or MTM (with pins) | OM3, or OM4, or 108 | 12 | length (m) |

*(1)  Other numbers of fibres are available on request, e.g. 8 ways.  In 8 fibre assemblies fibre positions 1, 2, 3, 4 & 9, 10, 11, 12*

*are normally terminated in the12 way array connector.*

Example Part Number: MTCCMTOM312010 = Pre-Terminated MPO-MPO assembly (unpinned), C polarity, OM3 12 fibre, 10m overall length

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

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The Brand-Rex datacentre cabinets and racks range offers the ultimate solution for management of fibre and copper in datacentres and telecoms rooms.
The unique, flexible and effective range is the ideal solution to support the mission critical applications of the modern day Data Centre.

These ground breaking solutions have been designed, in conjunction with customers, with an emphasis on minimising on-site installation times, improving accessibility to cabling and to providing modularity to enhance the overall operational flexibility.

The High Density Solutions are designed to solve the problems of today's networking environment, providing unique working and cabling accessibility to completely transform cabinet installation layouts, onsite installation and on-going system management.

## High Density Fibre Management Cabinet



The Brand-Rex High Density Fibre Cabinet and Panel offers the ultimate solution for management of fibre in datacentres and telecoms rooms. The 17inch frame solution is designed with an emphasis on minimising on-site installation times, accessibility to cabling and modularity to enhance its operational flexibility.

| Description | Part Number |
| --- | --- |
| Configuration 1 - Stand Alone HDFC – 1 x Standard High Density Fibre Cabinet (HDFC) Frame DRCRAK45U0905FX2 - 45U x 900mm (W) x 500mm (D) - Black<br><br>(Including Double Doors, Side Panels, Top Panel, U Label, Document Wallet) | DRCRAK45U0905F12 |
| Configuration 2 - 'Back to Back' HDFC – 2 x Standard High Density Fibre Cabinet (HDFC) Frame DRCRAK45U0905FX2 - 45U x 900mm (W) x 500mm (D) – Black<br><br>(Including Double Doors, Side Panels, Top Panels, Centre Panels, Baying Kits, U Labels, Document Wallets) | DRCRAK45U0905F22 |
| Configuration 3 - 'Side to Side' HDFC – 2 x Standard High Density Fibre Cabinet (HDFC) Frame DRCRAK45U0905FX2 - 45U x 900mm (W) x 500mm (D) - Black<br><br>(Including Double Doors, Side Panels, Top Panels, Bolt together Kits, U Labels, Document Wallets) | DRCRAK45U0905F32 |
| Configuration 4 - 'Back to Back' and 'Side to Side' HDFC – 4 x Standard High Density Fibre Cabinet (HDFC) Frame DRCRAK45U0905FX2 - 45U x 900mm (W) x 500mm (D) - Black<br><br>(Including Double Doors, Side Panels, Top Panels, Centre Panels, Baying Kits, Bolt Together Kits, U Labels, Document Wallets) | DRCRAK45U0905F42 |
| Configuration 5 - 'Back to Back' HDC and HDFC Frame – 1 x Standard High Density Fibre Cabinet (HDFC) Frame DRCRAK45U0905FX2 and 1 x Standard HDC Frame DRCRAK45U0905A2 - Black<br><br>(Including Double Doors, Side Panels, Top Panels, Centre Panels, Baying Kits, U Labels, Document Wallets) | DRCRAK45U0905H52 |

### Individual parts and accessories

| Description | Part Number | Description | Part Number |
| --- | --- | --- | --- |
| Standard High Density Fibre Cabinet (HDFC) 17" Frame -<br>45U x 900mm (W) x 500mm (D) - Black | DRCRAK45U0905F2 | Bolt Together Kit | DRCKITBT001 |
| | | Cage Nut Kit (inc.M6 Pan Head Screws, Washers, Nuts) | DRCKITBT001 |
| Standard High Density Fibre Cabinet (HDFC) 17" Frame -<br>45U x 900mm (W) x 500mm (D) - Black | DRCRAK45U0905FX2 | 17" 1U Blanking Panel | DRCKITCN001 |
| | | 17" 2U Blanking Panel | DRCBPL1U172 |
| High Density Fibre Cabinet (HDFC) Double Steel Doors -<br>45U x 900mm Wide x 500mm (D) - Black | DRCDOR45U09DS2 | 17" 5U Blanking Panel | DRCBPL2U172 |
| | | High Density Fibre Cabinet (HDFC) Plain Steel Back Panel 45U x 900mm Wide - Black | DRCBPL5U172 |
| High Density Fibre Cabinet (HDFC) Double Steel Vented Doors -<br>45U x 900mm Wide x 500mm (D) - Black | DRCDOR45U09DVS2 | Floor Fixing Kit for HDC Racks (Concrete Floor) | DRCBPL45U09SS2 |
| High Density Fibre Cabinet (HDFC) Plain Steel Door -<br>45U x 900mm Wide x 500mm (D) - Black | DRCDOR45U09SS2 | High Density Fibre Management Panel, 48 LC Ports, 1U Dual cassette,<br>part loaded with 12 x Quad LC Multi-mode adaptors & glands - Black | FPCPC1XMM48LC2 |
| 1 set of High Density Fibre Cabinet (HDFC) Plain Side Panels -<br>45U x 500mm Deep - Black (1 side only-2 Required for L&R) | DRCSPL45U05DS2 | High Density Fibre Management Panel, 48 LC Ports, 1U Dual cassette,<br>part loaded with 12 x Quad LC Single-mode adaptors & glands - Black | FPCPC1XSM48LC2 |
| High Density Fibre Cabinet (HDFC) Brush Top Panel 900mm Wide x 500mm Deep - Black | DRCTPL45U0509B2 | High Density Fibre Management Panel, 48 LC Ports, 1U Dual cassette, part loaded with<br>12 x Quad LC Single-mode adaptors (BHCL4SM001) & 48 x Simplex 900µm 008/125 PIGTAIL<br>LC Easy Strip 2m (HOTLC008302) - Black | FPCPC100848LC2 |
| Self Adhesive Unit Height Labels - Bottom to Top (1-47) | DRCLBL47U001 | | |
| High Density Fibre Cabinet (HDFC) Back to Back Baying Kits (Pair) -<br>Black (includes 2 for top & bottom) | DRCKITBB001 | High Density Fibre Management Panel, 48 LC Ports, 1U Dual cassette, part loaded with<br>12 x Quad LC Multi-mode adaptors (BHCL4MM001) & 48 x LC OM3 50/125 Pigtail<br>Easy Strip 2m (HOTLCOM3302) - Black | FPCPC1OM348LC2 |
| High Density Fibre Cabinet (HDFC) 45U Centre Side Panel - Black | DRCSPL45U04SS2 | | |
| Document Wallet | DRCACCDW001 | | |

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## High Density Copper Cabling Cabinet



The High Density Copper Cabling Cabinet offers the ultimate solution for management of cross-connect cabling in datacentres and telecoms rooms. The cabinet offers the ability to create a preferred enclosure design configuration that fits the needs of today's working environment. To tailor a solution to your requirements simply begin with the basic frame and subsequently add doors, side panels and top panels as required. The range also has a comprehensive array of accessories to suit all applications. If you have any problems please contact our expert customer service team for technical assistance.

| Description | Part Number |
|---|---|
| Configuration 1 - Stand Alone HDC Frame - 45U x 900mm Wide x 500mm Deep - Black (Including pallet AND All BR recommended Accessories - Double Doors, Side Panels, Top Panel, Through Troughs, Twist and locks, Earth Kit, U Label, Document Wallet) | DRCRAK45U0905C12 |
| Configuration 2 - 'Back to Back' HDC Frame – 2 x Standard HDC Frame DRCRAK45U0905A2 - 45Ux900mmx500mm - Black (Including pallet AND All BR recommended Accessories- Double Doors, Side Panels, Top Panels, Through Troughs, Twist and locks, Earth Kits, U Labels, Document Wallets, Baying Kits) | DRCRAK45U0905C22 |
| Configuration 3 - 'Side to Side' HDC Frame - 2 x Standard HDC Frame DRCRAK45U0905A2 - 45Ux900mmx500mm - Black (Including pallet AND All BR recommended Accessories- Double Doors, Side Panels, Top Panels, Through Troughs, Twist and locks, Earth Kits, U Labels, Document Wallets, Bolt Together Kits) | DRCRAK45U0905C32 |
| Configuration 4 - 'Back to Back' and 'Side to Side' HDC Frame - 4 x Standard HDC Frame DRCRAK45U0905A2 - 45Ux900mmx500mm - Black (Including pallet AND All BR recommended Accessories- Double Doors, Side Panels, Top Panels, Through Troughs, Twist and locks, Earth Kits, U Labels, Document Wallets, Bolt Together Kits, Baying kits) | DRCRAK45U0905C42 |
| Configuration 5 - 'Back to Back' HDC and HDFC Frame -1 x Standard HDFC Frame DRCRAK45U0905FX2 – 45Ux900mmx500mm - Black AND 1 x Standard HDC Frame DRCRAK45U0905A2 - 45Ux900mmx500mm Black (Including Double Doors, Side Panels, Top Panels, Centre Panels, Baying Kits, Bolt Together Kits, U Labels, Document Wallets) | DRCRAK45U0905H52 |
| Access HDC Frame - 45U x 900mm W x 500mm D - Black (including pallet, 2 x 150mm cable tray) | DRCRAK45U0905A2 |
| HDC Double Steel Doors 45U x 900mm W - Black | DRCDOR45U09DS2 |
| HDC Plain Steel Door 45U x 900mm W - Black | DRCDOR45U09SS2 |
| 1 set of HDC Plain Side Panels 45U x 500mm D - Black | DRCSPL45U05DS2 |
| HDC Plain Top Panel 900mm W x 500mm D - Black | DRCTPL45U0509SS2 |
| 3U Cable Trough Cable Trough - Black | DRCCT3U0402 |
| 3U Cable Trough Channel Extender - Black | DRCCTCE3U0402 |
| Self Adhesive Unit Height Labels - Bottom to Top (1-47) | DRCLBL47U001 |
| HDC 45U x 150mm W Cable Tray | DRCTRY45U015SP |
| HDC Back to Back Baying Bracket | DRCKITBB001 |
| HDC 45U Centre Side Panel - Black | DRCSPL45U04SS2 |
| 1 x Earth Kit | DRCKITER001 |
| Document Wallet | DRCACCDW001 |
| Pack of 10 Twist and Lock Cable Management Support Arms | DRCACCCM001 |
| HDC, 2 Bay Back to Back Computer Floor Plinth | DRCFPBB152 |
| Bolt Together Kit | DRCKITBT001 |
| HDC Double Steel Doors, unique lock, 45U x 900mm Wide - Black | DRCDOR45U09DUS2 |
| HDC Plain Steel Back Panel 45U x 900mm Wide - Black | DRCBPL45U09SS2 |
| HDC Double Steel Vented Doors, 45U x 900mm Wide - Black | DRCDOR45U09DVS2 |
| HDC 2 Way Fan Panel 900mm Wide x 500mm Deep - Black c/w 2m Mains Lead | DRCFANTP0209AS2 |
| HDC Double Brush Top Panel 900mm Wide x 500mm Deep - Black | DRCTP45U0509DB2 |
| 3U Cable Trough Base - Black | DRCCTB3U0402 |
| HDC 45U x 300mm Wide Cable Tray | DRCTRY45U030SP |
| Pack of 10 Twist and Lock Cable Management Support Arms With Enhanced End Caps | DRCACCCM002 |
| Cage Nut Kit (inc.M6 Pan Head Screws, Washers, Nuts) | DRCKITCN001 |
| Floor Fixing Kit for HDC/HDFC Racks (Concrete Floor) | DRCKITFLR001 |

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## High Density Distribution Equipment Rack (DER)

The Distribution Equipment Rack (DER) provides increased accessibility and has a flexible modular design that can be configured to suit small, corporate and internet datacentres. The DER set can be configured as an open frame to manage the cabling at the distributors or as a closed cabinet to safely secure servers and storage equipment. The designs are modular and flexible.

The logic of the modular, flexible systems are the key benefits of this best in class cable and equipment management system range. Features also include vented and glass door options, side panels and top panels with cable access. These cabinets have an unparalleled level of flexibility, providing the end user with the right cabinet for the right application.

| Description | Part Number | Description | Part Number |
|---|---|---|---|
| Configuration 1 - Stand Alone DER Frame - Black, 42U, 600x1000, c/w Standard Corner Plates ,Jacking Feet, 19" Rails, Vented Steel Doors, Plain Side Panels, Top Panel (Split -2xPlain Panels 1xVented Panel), Earth Kit. Black Panels c/w Black Trim | DRCRAK42U0610D12 | 1 Set of twin Plain side panels, (BlackSteel),42U high, 875mm deep | DRCTRY42U015SP |
| | | 1 Set of twin Plain side panels, (Black Steel),42U high, 1000mm deep | DRCLEDA-020 |
| | | 1 Set of twin Plain side panels, (Black Steel),42U high, 1200mm deep | DRCLEDB-020 |
| Configuration 2 - Stand Alone DER Frame - Black 42U, 800x875 c/w Standard Corner Plates ,Jacking Feet, 19" Rails, Vented Steel Doors, Plain Side Panels, Top Panel (Split -2xPlain Panels 1xVented Panel), Earth Kit. Black Panels c/w Black Trim | DRCRAK42U0808D22 | 42U x 75mm Cable Tray | DRCLEDC-020 |
| | | 42U x 150mm Cable Tray | DRCFANTP0206AS2 |
| | | Fan tray lead 13 AMP | DRCFANTP0208AS2 |
| Configuration 3 - Stand Alone DER Frame -Black 42U, 800x1000 c/w Standard Corner Plates ,Jacking Feet, 19" Rails, Vented Steel Doors, Plain Side Panels, Top Panel (Split -2xPlain Panels 1xVented Panel), Earth Kit. Black Panels c/w Black Trim | DRCRAK42U0810D32 | Fan tray lead IEC | DRCPDU1U06AS |
| | | Fan tray lead Schuko | DRCPDU1U06BS |
| | | 2 Way Fan Tray (230VAC) Top Panel 600mm wide, Black Steel, Includes 2M Long 13A Mains Lead | DRCPDU1U06CS |
| Configuration 4 - Stand Alone DER Frame -Black 42U, 800x1200 c/w Standard Corner Plates ,Jacking Feet, 19" Rails, Vented Steel Doors, Plain Side Panels, Top Panel (Split -2xPlain Panels 1xVented Panel), Earth Kit. Black Panels c/w Black Trim | DRCRAK42U0812D42 | 2 Way Fan Tray (230VAC) Top Panel 800mm wide, Black Steel, Includes 2M Long 13A Mains Lead | DRCPDU1U08AS |
| Black Rack 42U, 600x1000 Frame c/w Standard Corner Plates ,Jacking Feet, 19" Rails, No Doors, No Side Panels, Top Panel (Split -2xPlain Panels 1xVented Panel) Black Panels c/w Black Trim | DRCRAK42U0610A2 | 1 x 6 Way switched UK Power Distribution Unit | DRCPDU1U08BS |
| | | 1 x 6 Way switched IEC Power Distribution Unit | DRCPDUV08CS |
| | | 1 x 6 Way switched EU Schuko Power Distribution Unit | DRCPDUV10CS |
| Black Rack, 42U 800x875 Frame c/w Standard Corner Plates ,Jacking Feet, 19" Rails, No Doors, No Side Panels, Top Panel (Split -2xPlain Panels 1xVented Panel) Black Panels c/w Black Trim | DRCRAK42U0808A2 | 1 x 8 Way switched UK Power Distribution Unit | DRCPDUV12CS |
| | | 1 x 8 Way switched IEC Power Distribution Unit | DRCPDUSP8CS |
| | | 1 x 8 Way Vertical switched EU Schuko Power Distribution Unit | DRCPDUSP12CS |
| Black Rack 42U, 800x1000 Frame c/w Standard Corner Plates ,Jacking Feet, 19" Rails, No Doors, No Side Panels, Top Panel (Split -2xPlain Panels 1xVented Panel) Black Panels c/w Black Trim | DRCRAK42U0810A2 | 1 x 10 Way Vertical switched EU Schuko Power Distribution Unit | DRCBPL1U2-QF |
| | | 1 x 12 Way Vertical switched EU Schuko Power Distribution Unit | DRCBPL2U2-QF |
| | | 1 x 8 Way Surge Protected Schuko Power Distribution Unit | DRCBPL5U2-QF |
| Black Rack 42U, 800x1200 Frame c/w Standard Corner Plates ,Jacking Feet, 19" Rails, No Doors, No Side Panels, Top Panel (Split -2xPlain Panels 1xVented Panel) Black Panels c/w Black Trim | DRCRAK42U0812A2 | 1 x 12 Way Surge Protected Schuko Power Distribution Unit | DRCSHF1U0452-QF |
| | | 19" 1U Quick Fit Blanking Panel | DRCSHF1U0552-QF |
| | | 19" 2U Quick Fit Blanking Panel | DRCSHF1U0652-QF |
| Solid Steel Door (Hinged Left) 42U high, Black Panels & Black Trims 600mm | DRCDOR42U06SS2 | 19" 5U Quick Fit Blanking Panel | DRCSHF1U0752-QF |
| Solid Steel Door (Hinged Left) 42U high, Black Panels & Black Trims 800mm | DRCDOR42U08SS2 | Quick Fit 19" Fixed Shelf 450mm deep | DRCSHF1U0452-QFS |
| Vented Steel Door (Hinged Left) 42U high, Black Panels & Black Trims 600mm | DRCDOR42U06SV2 | Quick Fit 19" Fixed Shelf 550mm deep | DRCSHF1U0602-QFS |
| Vented Steel Door (Hinged Left) 42U high, Black Panels & Black Trims 800mm | DRCDOR42U08SV2 | Quick Fit 19" Fixed Shelf 650mm deep | DRCSHF1U0752-QFS |
| Double Vented Steel Door 42U high, Black Panels & Black Trims 600mm wide | DRCDOR42U06DV2 | Quick Fit 19" Fixed Shelf 750mm deep | DRCSHF1U0192 |
| Double Vented Steel Door 42U high, Black Panels & Black Trims 800mm wide | DRCDOR42U08DV2 | Universal Quick Fit 19" Sliding Shelf 450mm deep | DRCSHF2U0402 |
| Glass Door (Hinged Left) 42U high, Black Panels & Black Trims 600mm wide | DRCDOR42U06SG2 | Universal Quick Fit 19" Sliding Shelf 600mm deep | DRCSPK0610 |
| Glass Door (Hinged Left) 42U high, Black Panels & Black Trims 800mm wide | DRCDOR42U08SG2 | Universal Quick Fit 19" Sliding Shelf 750mm deep | DRCSPK0808 |
| Double Glass Door 42U high, Black Panels & Black Trims 600mm wide | DRCDOR42U06DG2 | 1U 19" Front Mounted Cantilever Shelf 190mm deep | DRCSPK0810 |
| Double Glass Door 42U high, Black Panels & Black Trims 800mm wide | DRCDOR42U08DG2 | 2U 19" Front Mounted Cantilever Shelf 400mm deep | DRCSPK0812 |
| Plain Steel Back Panel 42U x 600mm Wide - Black | DRCBPL42U06SS2 | DER, Standard Plinth Kit, 600 x 1000mm | DRCKITER001 |
| Plain Steel Back Panel 42U x 800mm Wide - Black | DRCBPL42U08SS2 | DER, Standard Plinth Kit, 800 x 875mm | DRCKITCH001 |
| 1 x Heavy Duty Castor Kit | DRCSPL42U08DS2 | DER, Standard Plinth Kit, 800 x 1000mm | DRCACCCM001 |
| Pack of 10 Twist and Lock Cable Management Support Arms | DRCSPL42U10DS2 | DER, Standard Plinth Kit, 800 x 1200mm | DRCACCCM002 |
| Pack of 10 Twist and Lock Cable Management Support Arms With Enhanced End Caps | DRCSPL42U12DS2 | 1 x Earth Kit | DRCKITBT001 |
| Bolt Together Kit | DRCTRY42U008SP | | |

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## High Density Open Entry Rack



The Open Entry Rack (OER) offers a simple, modular and easy-to-install system that can also be applied to small, corporate and internet datacentre environments. It can be used stand-alone or in multiples. It is an ideal solution for the main distribution area. The modular and scaleable design of the OER offers numerous options and solutions to deal with issues of cable access and routing that are common to today's high data rate networks and high performance cabling. It offers the user a simple, modular and easy-to-install system featuring smart, effective cable management options and built-in flexibility to cope with copper or optical cabling.

The combination of completely interchangeable cable retention gates, doors, fingers and accessories allows the user to customise OER to adapt his or her own specific needs. Also, reconfiguration and modification of the OER system is done easily in the field after the system is installed, which makes the OER a great choice for cable management needs now, and in the future.

| Description | Part Number |
|---|---|
| Open Entry Rack 30U - 2 Post Frame | DRCFRMOER30UA2 |
| Open Entry Rack 45U - 2 Post Frame | DRCFRMOER45UA2 |
| Configuration 1 - includes 1 x 30U OER, 2 x Open Entry Rack 6" Single Sided High Density Cable Management 30U | DRCFRMOER30U12 |
| Configuration 2 – includes 1 x 45U OER, 2 x Open Entry Rack 6" Single Sided High Density Cable Management 45U | DRCFRMOER45U22 |
| 6" Single Sided High Density Cable Management 30U | DRCSSCM30U2 |
| 6" Single Sided High Density Cable Management 45U | DRCSSCM45U2 |
| 1U 19" Finger Cable Management Bar | DRCFRM1UCM2 |
| 19" Finger Cable Management Bar | DRCFRM2UCM2 2U |
| 3U 19" Finger Cable Management Bar | DRCFRM3UCM2 |
| Cable Management Spools | DRCACCCMS001 |

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In today's world of high speed connectivity the importance of Information Communication Technology (ICT) services is business critical. The introduction of best practice standards for this service management and with the dependency on the availability of information continually increasing, businesses are required to be proactive in relation to these ever changing developments.

At the core of any IT Service Management framework are the configuration, change and incident management processes. The accuracy and quality of the information contained within the main configuration is vital in ensuring the effectiveness, efficiency and quality of all associated applications.

Traditionally, configuration management is one of the most difficult disciplines to implement due to the manual effort needed to maintain accurate records of the constant changes to the IT infrastructure. The management of changes is also highly critical, as service delivery managers must know the exact implications of carrying out any changes before they take place.

SmartPatch has been designed with these challenges in mind. It is a solution that is universally recognised for the ultimate levels of flexibility, efficiency and network security it provides.

The system provides simple and controlled management and recording of common network changes such as those forced by office moves and terminal additions.

SmartPatch also gives multi-site businesses the tools to effectively monitor and manage all sites from a central location.

**System Benefits**

- Reduced Cost and Increased Effectiveness of IT Operations

- A Platform for High Availability

- Network Management Services

- Improved Customer Responsiveness

- Improved Information Quality

- Enhanced Physical Security

## SmartPatch Advanced Scanner Hardware

The SmartPatch Network Scanner from Brand-Rex connects the Intelligent patching panels to the SmartPatch connectivity management software. The network scanner can be mounted as a 1U device or in a zero "U" configuration. The SmartPatch Network Scanner is suitable for installation in equipment racks or cabinets for use with all approved Brand-Rex IPS panels.

| Description | Part Number |
|---|---|
| 1U Network Scanner - Black | IPSRTU1U2 |
| Zero U Network Scanner - Black | IPSRTU0U2 |

## SmartPatch Intelligent Copper Patch Panels

SmartPatch IPS Copper Patch Panels offer 24 ports per 1U and include integrated cable management features. The intelligent ready panel can be loaded with an RFID antenna, providing the ability to monitor and record the patching status. This information is communicated back to the software via a network scanner. The LED's above each port are used to trace connectivity or to offer patching guidance to the engineer.

| Description | Part Number |
|---|---|
| 1U 24 SIJ Inline Copper panel (IMS Ready) - Black | IPSPNLX24SIJ2M-X |
| 1U 24 SIJ Inline Copper panel (IMS) - Black | IPSPNLX24SIJ2M |

## SmartPatch Intelligent Fibre Panels

The SmartPatch 1U fibre 19" Optic Patch Panels have been designed to optimise both the internal fibre management but also to add greater fibre density. The Patch Panel offers a flexible and highly versatile solution for optical splicing and patching. The integrated design features ensure that even once installed panels can be readily reconfigured to accommodate the changing needs of today's high speed networks. The intelligent ready panel can be loaded with an RFID antenna, providing the ability to monitor and record the patching status. This information is communicated back to the software via a network scanner. The LED's above each port are used to trace connectivity or to offer patching guidance to the engineer.

| Description | Part Number |
|---|---|
| 1U 48f LC Duplex Multimode Fibre panel IMS Ready (MM) - Black | IPSC1SXMM48LC2-X |
| 1U 48f LC Duplex Single mode Fibre panel IMS Ready (SM) - Black | IPSC1SXSM48LC2-X |
| 1U 48f LC Duplex Multimode Fibre panel IMS (MM) - Black | IPSC1SXMM48LC2 |
| 1U 48f LC Duplex Single mode Fibre panel IMS (SM) - Black | IPSC1SXSM48LC2 |

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## SmartPatch IPS Retrofit Antenna

The SmartPatch Intelligent Patching System (IPS) RFID antenna kit for Copper and Fibre allows customers to migrate from the Brand-Rex ready solution to fully intelligent panels.

| Description | Part Number |
|---|---|
| Copper Antenna KIT – Black | IPSATTRFID001 |
| Fibre Antenna KIT with Jump Lead – Black | IPSATTRFID002 |

## SmartPatch Retrofit RFID Clip for Fibre Patch Cord
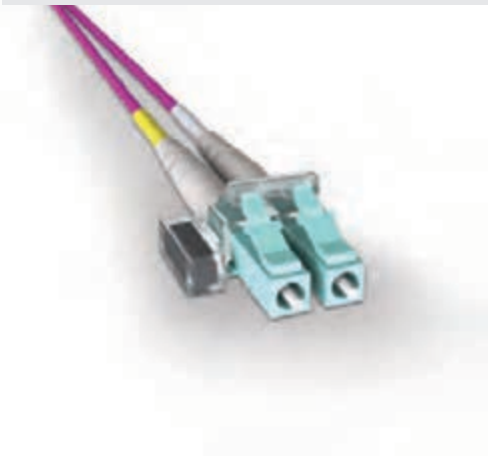
A specially designed fibre clip transforms standard Brand-Rex patch cords into intelligent cords fully integrating them into the SmartPatch system. These clips can be mounted easily at any stage in the process even if the live connections are already established. Within the clip a powerful unique RFID tag is integrated which can store additional information including length, measurement reports, location, etc.

| Description | Part Number |
|---|---|
| RFID Clip LC Fibre Patch Cord Clip - Transparent | IPSPCCLPLCD |

## SmartPatch Retrofit RFID Clip for Copper Patch Cord

The unique retrofit clip forms the key in connecting your standard 8 wire patch leads to the SmartPatch intelligent patching system. This clip is compatible with Brand-Rex Cat6Plus and 10GPlus screened cords providing the system with intelligent information. These clips can be mounted easily at any stage in the process even if the live connections are already established. Within the clip a powerful and unique RFID tag is integrated which can store additional information such as, length, measurement reports, location, etc.

| Description | Part Number |
|---|---|
| RFID Copper Patch Cord Clip 10GPlus - Blue | IPSPCCHB004 |

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## Connectivity Management Software (CMS)
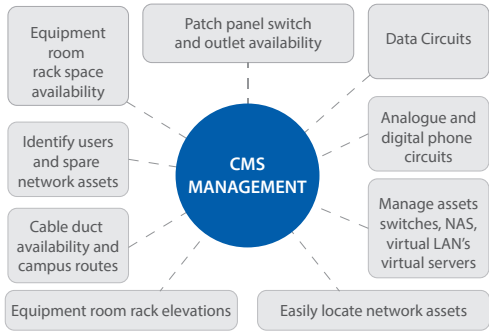


The connectivity management software can be utilised as a standalone offering to support your End to End infrastructure or combined with the intelligent patching system to fully support Data Centre, outside plant or office network management. The software element of CMS not only allows the monitoring and management of physical connectivity, the availability of a fully transparent API means the benefits of accurate, real time information can also be integrated into the most commonly available networks, facilities, configurations and helpdesk management applications.

In medium to large networks, maintaining a high level of information on single or multiple locations can be difficult. The CMS makes it easy to enter, update and understand the connectivity availability of the network. The user friendly interface ensures an effortless and rapid ability to establish and inspect connections within splice enclosures, patch panels, optical network devices and passive optic network (PON) splitters used in FTTx applications. The flexibility of the software allows IT managers to establish a named cable path from one part of the network to another.
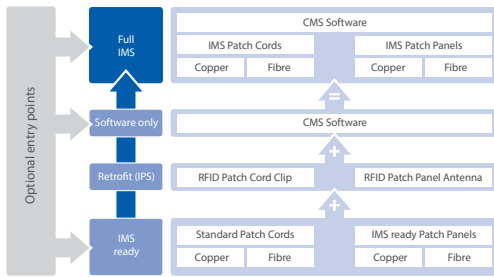
Even though it encompasses many elements such as copper, fibre, splices and ports, this named circuit can be managed as a single entity within the network, and can include point-to-point connectivity between the central office, NOC or POP and a customer site. The Connectivity Management Software also allows maps, drawing files or .pdf/images to be imported ensuring the user can customise the network relative to specific area and location requirements.

### Connectivity Management interface enables users to:

- Generate and maintain campus map layouts
- Design and manage your campus backbone cabling
- Visualise the paths of cables through a campus
- Easily manage fibre backbone availability
- Manage cabling and assets in manholes
- Manage fibre splicing and air blown fibre
- Generate routes for new cables

## CMS software (In-house)

| Description | Part Number | |
|---|---|---|
| SmartPatch enhanced software - Server-In-house-20 racks | IPSSWSVR20R | Basic Requirement* |
| SmartPatch enhanced software - Server - In-house - Racks Expansion to 30 racks (10 racks expansion) | IPSSWSVRA1RE | Extension package possibilities when using IPSSWSVR20R as the basic requirement |
| SmartPatch enhanced software - Server - In-house - Racks Expansion from 31 to 390 racks (10 racks expansion from 31 to 390 racks) | IPSSWSVRA2RE | |
| SmartPatch enhanced software - Server-In-house - Racks Expansion from 391 racks (10 racks expansion from 391 racks) | IPSSWSVRA3RE | |
| SmartPatch Managed Ports 500 ports | IPSSWSVRA5P | |

## Feature upgrade CMS software (In-house)

| Description | Part Number | |
|---|---|---|
| SmartPatch enhanced software - Server - In-house - Feature Upgrade to 30 racks | IPSSWSVRA1RFU | Upgrade package possibilities when using IPSSWSVR20R as the basic requirement |
| SmartPatch enhanced software - Server - In-house - Feature Upgrade from 31 to 390 racks (10 racks expansion from 31 to 390 racks) | IPSSWSVRA2FU | |
| SmartPatch enhanced software - Server - In-house - Feature Upgrade from 391 racks (10 racks expansion from 391 racks) | IPSSWSVRA3FU | |

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The often daily moves, adds and changes in the enterprise align the network equipment with user needs and ensure they are supporting disciplined process management. The software provides a solution to easily manage assets and connectivity from equipment rooms and Data Centre floors to the workspace environment while also efficiently supporting the physical network.

Providing a powerful solution for the management of Data Centre floors, racks, IT assets, energy resources and end-to-end cabling - assisting the user to:

- Manage end user space in collocation Data Centre
- Manage and plan rack space usage and power consumption
- Manage the lifecycle of Data Centre assets
- Manage Data Centre floor space
- Manage the impact of loss of power and network connectivity
- Manage 'Moves', 'Adds' and 'Changes' efficiently
- Data mine assets and connectivity for engineering and management reporting

### CMS bridge software (In-house)

| Description | Part Number | |
|---|---|---|
| SmartPatch enhanced software - Server - In-house - GIS integration | IPSSWSVRGISI | System integration possibilities when using IPSSWSVR20R as the basic requirement |
| SmartPatch enhanced software - In-house - Switch Data Synchronization Bridge | IPSSWSVRSDIB | |
| SmartPatch enhanced software - Server - In-house - Data Integration Bridge | IPSSWSVRDIB | |

### CMS support

| Description | Part Number |
|---|---|
| SmartPatch enhanced software - Service Agreement | IPSSWSVRSAE |

### CMS software (SaaS)

| Description | Part Number | |
|---|---|---|
| SmartPatch enhanced software - Software as a Service - 20 racks annual contract | IPSSWSVR20R-CA | Basic Requirement* |
| SmartPatch enhanced software - Software as a Service - expansion to 30 racks annual contract (10 racks expansion SaaS) | IPSSWSVRA1RE-CA | Extension package possibilities when using IPSSWSVR20R-CA as the basic requirement |
| SmartPatch enhanced software - Software as a Service - Expansion from 31 to 390 racks (10 racks expansion SaaS) | IPSSWSVRA2RE-CA | |
| SmartPatch enhanced software - Software as a Service - Expansion from 391 racks (10 racks expansion SaaS) | IPSSWSRVA3RE-CA | |
| SmartPatch Manage Managed Ports software - Software as a Service 500 ports year contract | IPSSWSVRA5P-CA | |

### Feature upgrade CMS software (SaaS)

| Description | Part Number | |
|---|---|---|
| SmartPatch enhanced software - Software as a Service - Feature Upgrade to 30 racks annual contract | IPSSWSVRA1RFU-CA | Upgrade package possibilities when using IPSSWSVR20R-CA as the basic requirement |
| SmartPatch enhanced software - Software as a Service - Feature Upgrade from 31 to 390 racks annual contract (10 racks expansion SaaS) | IPSSWSVRA2FU-CA | |
| SmartPatch enhanced software - Software as a Service - Feature Upgrade from 391 racks annual contract (10 racks expansion SaaS) | IPSSWSRVA3FU-CA | |

### Feature Upgrade CMS bridge software (SaaS)

| Description | Part Number | |
|---|---|---|
| SmartPatch enhanced software - Software as a Service - Manage SaaS GIS integration annual contract | IPSSWSVRGISI-CA | System integration possibilities when using IPSSWSVR20R-CA as the basic requirement |
| SmartPatch enhanced software - Software as a Service - Switch Data Synchronisation Bridge annual contract | IPSSWSVRSDIB-CA | |
| SmartPatch enhanced software - Software as a Service - Data Integration Bridge | IPSSWSVRDIB-CA | |

*  Restricted to 12 user-defined attributes, 10 reports, 20 work orders, 2 resources and does not include access to the API other than via the standard bridges.
   Feature upgrade up to 30 racks. Unrestricted user-defined attributes, reports, work orders, resources, 3D visualization and full access to the API.

### Connectors and Tools

| Description | Part Number |
|---|---|
| Bus connector Crimp Tool | IPSCRTOOL2 |
| HF RFID writer / reader | IPSRFIDRW2 |

Brand-Rex product datasheets contain detailed information on each product's physical characteristics, electrical parameters and performance data.
The most up to date datasheets can be found at **www.brand-rex.com/datasheet**

Brand-Rex is a leading technology company who design, develop and manufacture innovative fibre and high-end copper connectivity solutions for the network infrastructure cabling market and high performance cables for extreme environment applications.



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