



MULTIMEDIA CONNECT CATALOG

Copper structured cabling solutions
Fiber optic solutions
19" racks and accessories



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MULTIMEDIA CONNECT, A SUBSIDIARY OF TKH GROUP, LEADER IN ITS MARKETS

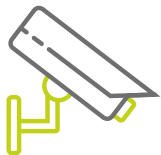


Specialized in innovative technologies and listed on the Amsterdam Stock Exchange, TKH Group is a Dutch company that develops and markets global solutions for infrastructures, telecommunications and the industry niche.

TKH Group, a leader in its field, is present all over the world with more than 75 manufacturing and distribution subsidiaries.

Smart Technologies: The heart of development

With 85 years of experience, TKH Group focuses its developmental capacities to create high added-value solutions for 4 different technological planes:



SECURITY



COMMUNICATION



CONNECTIVITY



**INTELLIGENT
MANUFACTURING SYSTEMS**

Key figures*

20.8%

Innovations

11.3%

ROS

21-22%

ROCE

*turnover in 2018: 1,630 M €

Further information: www.tkhgroup.com



THE POWER OF THE MANUFACTURING DIVISION: **KNOW-HOW, TECHNICALITY & PRODUCTION CAPACITY**

Multimedia Connect has always dedicated significant resources to the research and development of new solutions. This commitment resulted in the creation of a manufacturing hub, which allows for the unification of manufacturing know-how and design.



“

As a solution designer, MULTIMEDIA CONNECT keeps a permanent watch on new technological developments which feeds and inspires their projects for progress.

”

In order to better meet the specific demands of its customers, MMC has made its know-how accessible for the design and development of unique solutions. This service has enabled the development of numerous solutions used in projects on a nationwide scale.

TKH Group has full control over their production power with over a dozen factories dedicated to manufacturing. Each factory is organized by their speciality: optical fiber, copper cables, cords, connectors.

Each factory works in accordance with the international ISO 9001 and ISO 14001 standards.



STRENGTH IN LOGISTICS

MULTIMEDIA CONNECT boasts about their expertise in logistics. Its logistics platforms, located in the Paris region, focuses primarily on their quality of service, especially when making their 80,000 deliveries per year, both in France and internationally.

The site utilises a WMS software to ensure full traceability and has automation machines that allow for the management of large supply chains.

20 M€

of stocks

21,500

Pallet locations

24/48h

Delivery time in 85%
of the cases

8

Cutting machines
(6,000 cuts/year)

3h

Average time to
prepare orders



Customer-focused services

- Routine quality control before each stock entry.
- In the case of scheduled orders, creating customized stocks is a possibility.
- Transport: courier, express courier & charter.
- Delivery at your chosen destination: delivery to upper floors, construction sites, secure sites, etc.
- Willing to follow your security protocols.



Rigorous testing

Each incoming delivery of products from the factories is thoroughly inspected by MMC's quality control department.

A sample of each delivery is tested and a tracking sheet is generated to ensure product traceability to the end user. All LAN and coaxial cables are subjected to high-frequency electrical tests to ensure compliance with IEC standards. The laboratory is equipped with the latest generation of control and measurement equipment, including a network analyzer that is capable of testing up to 2 GHz of transmission performance.

SERVICES TO ASSIST IN **THE SUCCESS OF YOUR PROJECTS**



MMC makes their expertise readily available and offers a broad range of services in order to accompany their customers throughout their projects.

Design office for CCTP

MMC's experienced and multidisciplinary technical team is at your disposal to compile and fulfill special requirements, which includes drawing up layout diagrams and analyzing costs.

Specific solutions

After studying your specific requirements and/or drafting a distinct proposal, we can fabricate tailor-made solutions that guarantee a response that is best adapted to meet your needs.

F.I.R.S.T. Training Center

The F.I.R.S.T. training center is dedicated to offering training courses that certify partners in several mediums - e.g. optical fiber and structured copper cables.

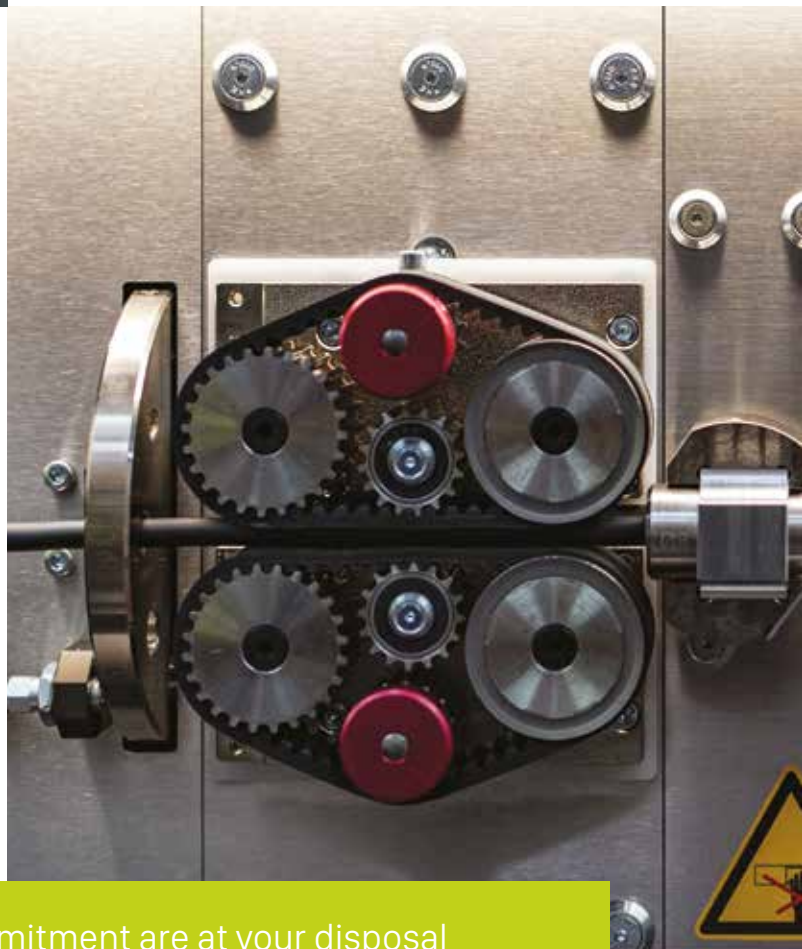
Production workshop: tailor-made requests are MMC'S standard products

MMC's production unit can be found in the logistics center within the region of Paris.

It carries out the research and production of copper cables in order to meet the specifications of any installation.

The production unit specializes in the integration of racks, VDI equipment cabinets, copper trunk, pre-terminated optical panel, etc.

However, it is also able to respond quickly to each wiring challenge faced by individual customers.



MMC's skills, know-how, and commitment are at your disposal to ensure the success of your projects.

DEDICATED SOLUTIONS FOR EACH **ARENA**

MMC offers a large and complete range of solutions to meet every application.

The R&D department has developed these unique solutions and has adapted them to meet the needs and installation specifications of each environment.

11 - INFRASTRUCTURES

Fire resistant cable

10 - CARE

High EMC cabling solutions
Antibacterial solutions

9 - EDUCATION

Copper solutions
Solutions for audio-video applications

8 - RESIDENTIAL

Communication box solutions
Fiber FTTH solutions

7 - SMART BUILDINGS

Fiber optical and structured cabling solutions
Innovative IP convergence solutions

6 - MARINE

DNV certified cables
Fire resistant cable



1 - NUCLEAR STATIONS

Cable that meets the latest CPR level
Dedicated structured cabling solutions

2 - INDUSTRY 4.0

Waterproof junction box
Armored fiber cord

3 - AIRPORTS

Cabling solutions for security : IP/analog
videosurveillance and access control

4 - MALLS

Cabling solutions for IP applications :
Security, display screen, etc.

5 - STADIUMS

Audio amplification solutions
Video Broadcasting solutions



CARE SOLUTIONS



Management of nosocomial infections, safety and the security of people are key components and issues hospitals must face, as well as addressing the comfort of their inpatients. This comfort can be enhanced by offering television and other multimedia services. After completing their due diligence, MMC has become aware of the issues hospitals are facing today and have solutions adapted for the healthcare environment.



Fire resistance

The complexity of a hospital facility requires an evacuation procedure within a short and efficient time frame which allows for the evacuation of infirm or bedridden patients. To satisfy this requirement, MMC recommends the use of cables that have a high fire resistant capacity, rated Cca or B2ca that are in accordance with EN 50575. MMC's range of cables are rated with the CPR class necessary for these types of environments.



TV reception

The world of telecommunications is changing with cable TV reassigning the frequencies from analog to digital and telephone operators deploying 4G, LTE, and, in the near future, 5G. IP cabling TV solutions have become indispensable in hospitals everywhere and, therefore, must have an excellent bandwidth in order to transmit data signals. Multimedia Connect is able to fulfill the expectation of IP TV services through their solutions.



EMC

Medical imaging equipment emits high levels of electromagnetic fields, which can interfere with the data transmission from cables. That is why MMC recommends that cabling systems be equipped with a highly efficient shield so as to achieve the best S/N ratio and guarantee a low transmission error rate. Multimedia Connect's range of S/FTP cables and ZAMASK shielded connectors offer the ideal solution for the electromagnetic emissions problem in hospitals.



Healthcare-associated infections

In order to guarantee a high degree of immunity in operating rooms, as well as in any space that may contain patients, Multimedia Connect offers a range of antibacterial products for healthcare institutions, which are also suitable for the food industry. These products offer resistance to the most infectious bacteria (Escherichia coli, Staphylococcus aureus, Pseudomonas aeruginosa, etc.). These products comply with the antibacterial standard JIS Z 2801. The Multimedia Connect antibacterial range is completed with sterile cords that are assembled in ISO 8 clean rooms.

SMART BUILDING SOLUTIONS



The approach to working has evolved: teleworking, scalable workspaces, coworking, the presence of IoT, etc. These changes have led to a different mentality when it comes to the typology of offices and, as a consequence, cabling infrastructures. Standardization committees have taken these changes into consideration and have rectified the 3rd edition of ISO 11801, which supports IP convergence.



PoE management

The new 802.3bt PoE standard offers 60 W of power. In order to reduce losses caused by the Joule effect and overheating brought on by the increased power, Multimedia Connect recommends cables with larger sections.

An AWG22 twisted pair cable is an ideal cabling solution because it is able to ensure the optimal power of the 802.3bt standard.

The IEC 60512-99-00x standard allows the resistance of the contacts in RJ45 connectors to be checked despite being frequently connected and disconnected while active. The Multimedia Connect IV and BCTL ranges are certified by an independent laboratory and comply with 4PPoE.



Modular distribution

The distribution network of cabling infrastructures can evolve: the organization of open space offices and the need to make investments profitable often push installers to opt for pre-connected modular cabling solutions.

Multimedia Connect hub boxes can be mounted in false floors or ceilings thus offering modularity within the premises. Combined with flexible or rigid links, your cabling infrastructure will be ready for the future.



Direct Attach solution

The latest version of 4PPoE requires installers to use AWG23 or AWG22 cables in order to connect remote powered IP equipment. The Multimedia Connect PL range enables RJ45 plugs to be connected with cables that have a gauge up to AWG22 without the use of a crimping tool. The PL6AFS solution, with the high-quality ZAMAK shielding, has excellent EMC characteristics, which is ideal for connecting WiFi access points. The PLAG solution has a 135° RJ45 head thus allowing terminal equipment to be connected in confined spaces while also assuring sufficient radius of curvature.



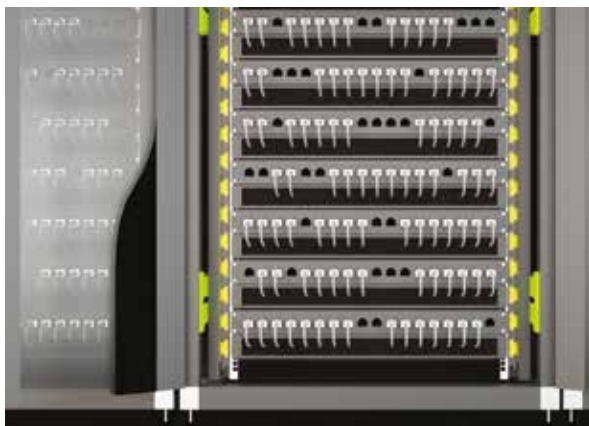
Custom solutions

To ensure a lower cost, installation time must be optimized and modularity of spaces is highly important. Therefore, Multimedia Connect offers a range of custom pre-connected links which are assembled in their own workshops. By offering these pre-connected RJ45 consolidation links, MMC has put their expertise in cabling systems at the disposal of their customers and end-users.

DATA CENTERS SOLUTIONS



Whether hyperscale or smaller in size, Data Centers require a high port density in order to minimize the number of storage arrays and, therefore, the floor space. The increase in data rates and bandwidth favors the presence of server rooms with specific needs: access control, air flow management, redundancy, and more.



Cat8 cabling

The IEEE 802.3bq protocol allows 40 Gbit/s of transmission over twisted pairs, for high-speed applications with a very competitive port price. This new protocol, dedicated to data centres, has led to a new category in copper cabling: Cat8. Multimedia Connect's Cat8 cabling system, SF20004SHC, is composed by a special assembly and construction which gives it one of the lowest BER rates. In addition, its CPR Cca level offers fire resistance characteristics fitted for data center environments and contribute to the security of the stored data.



High density

Data Centers costs can be cut through ingenuity by reducing power consumption per m², saving space, and other means. By combining modularity, scalability and ultra-high density, MMC's DC and UHD optical ranges are able to help you in your pursuit of cutting costs. A complete range of pre-connected optical links, with a very high density, that are based on small-diameter cables with MTP or MPO connectors completes MMC's data center solutions..



Power supply

The power supply of a data center is absolutely crucial and, with a UPS power solution, data centers are able to operate 24/7.

MMC has a range of silicone cables that are ideal for powering inverters up to 1.5 kVA.

The silicone sheath ensures the flexibility of the cable while also offering high temperature resistance that allows it to withstand the Joule effect..



Storage arrays

Storing servers and its equipment requires cabling racks with a high loading capacity. Multimedia Connect racks are tested up to 1,250 kg to offer the best solution that meets the needs of data centers. In addition, the management of hot and cold air flows is optimized by the use of honeycomb doors with a perforation rate of 80%.

The large entry level brush openings on the roof of MMC'S racks allow for cabling management in the case of ToR or EoR configuration.

EDUCATION SOLUTIONS

A photograph of a modern educational building with a multi-level glass and metal facade. The building features large glass windows and doors, reflecting the surrounding environment. The architecture is clean and contemporary, with a mix of grey metal panels and light-colored wood accents. The sky is clear and bright, suggesting a sunny day.

Schools, colleges, universities and other educational facilities needs in terms of multimedia cabling, video surveillance and access control cabling have increased.

The versatility of these facilities requires specific technical solutions.

The range of products and their technical expertise allows MMC to offer you the most suitable solution for your installations.



Alarm and video surveillance cables

IP configuration has become the basis in security: e.g. video surveillance and access control. This new practice is proof that IP convergence is becoming the new norm. Multimedia Connect offer a large range of solutions in IP security : external CAT6 cables or a special AWG26 cable that connects directly to your IP devices.



HDMI faceplates and custom leads

MMC's range of cables, cords, and faceplates allows their users to pre-wire all audio and video liaisons present in a building: VGA, audio, HDMI, video, USB.

Their production facility based in France can provide pre-connected links that are quick and easy to implement and use.



Lockable faceplates

The various access points in classrooms and other gathering places are often damaged by the insertion of foreign objects. These actions permanently deteriorate the plug's contacts (RJ45, HDMI, etc.), thus requiring the replacement of the connectors. To fight against the damage and preserve the plugs, Multimedia Connect has developed a 45x45 faceplate equipped with a lockable dust cover. In addition, the materials that make up these faceplates are ULV0-rated and are, therefore, fire resistant.

An aerial photograph of a power plant at sunset. Two large cooling towers are prominent in the foreground, each emitting a thick plume of white steam that rises into the air. The sky is a mix of orange, yellow, and blue, indicating the time is either dawn or dusk. In the background, a winding river or canal flows through a landscape of trees and some industrial buildings. The overall scene is a blend of natural and industrial elements.

INFRASTRUCTURE SOLUTIONS

Sensitive sites and at high risk infrastructures require cabling systems with an optimal degree of protection and performance. It is only by undergoing strenuous test against specific constraints that a cable is able to earn a fire resistant certification. These tests help to ensure harmony with the specifications of the different infrastructures. Performance must also be held to the same degree so as to avoid compromising the increasing evolution of certain applications towards remote communication and the IoT.



Security

Sensitive environments require a high level of safety and necessitate security solutions that meet rigorous constraints. The quality and excellent fire resistance characteristics of MMC's C1, Cca or B2ca certified products allow Multimedia Connect to play a major role in the construction, maintenance and improvement of electrical installations and/or sensitive sites. The major national players in these fields place their trust in MMC, and this recognition encourages them to further develop their product ranges..



Fire resistance

The safety of people in high-rise buildings, tunnels and other at high risk infrastructures that are open to the public require the use of products that have good responses and/or resistance in case of fire.

MMC's product ranges include fire resistant products such as the FOFIRE.

The performance of these products is verified by MMC's technical teams to guarantee an excellent fire resistance performance, and is also certified by independent laboratories.



Radio frequency systems

Convergence of voice, data and images while simultaneously improving the services offered to users are the greatest challenges facing telecommunication infrastructures today. However, as technology advances (4G, 5G, and LTE) MMC is more inspired than ever to solve the problem of access to broadband services and instantaneous information. MMC develops and provides cabling solutions that meet these ever-changing needs.



Remote reading solutions

Monitoring power consumption in real time, whether for economic or ecological purposes, is a topical issue, both for private individuals and industrial companies.

Built on the strength of more than 30 years' experience in the transmission of high-frequency signals, MMC is able to meet this challenge thanks to its tailor-made solutions. Their mastery of cable design and manufacture enables us to offer a range of products adapted to the remote reading process.



Structured copper and optical cabling, racks and cabinets

Created in 1993, Multimedia Connect is a brand recognized in its market for its copper and optical solutions.

With a “smart & simple” mindset, the products are designed to facilitate the work of the installer and the user. By offering innovative solutions that are dedicated to IP convergence, the transition to smart city and building is facilitated.

The Multimedia Connect brand was a pioneer in connectivity with its tool free products, and, today, they fortify their position by offering the first 100% toolless connector equipped with ceramic blades: the IV connector.

From CAT5e to CAT8, the solutions are certified by independent laboratories in order to guarantee optimal performance that is in full compliance with even the most demanding business standards.

The optical solutions range is very diversified and is intended for both indoor and outdoor network installations. It covers all the needs of projects for buildings, infrastructures and/or data centers.



ISO 11801 Ed3

A new edition for new applications

ISO standard dedicated per application & environment

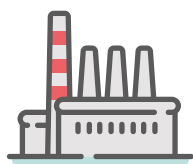
ISO 11801-1

General Specifications



ISO 11801-2

Office



ISO 11801-3

Industry



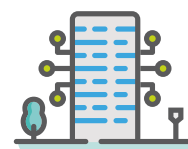
ISO 11801-4

Residential



ISO 11801-5

Data center



ISO 11801-6

Building service

These new ISO standards are now aligned per application, with some new trend and with the confirmation of some obsolescences :

ISO 11801-1

General specifications

- Stop of OM1, OM2 & OS1 fiber
- Introduction of the Cat8 & OM5 fiber



ISO 11801-2

Office :

- At least CAT6A solution for all rate >1 Gbit/s



ISO 11801-5

Data center :

- Introduction of new performance copper and fiber optic



ISO 11801-6

- At least Cat6A solution for data cabling
- Introduction of new POE standard : 4PPoE

The new Cat8 standard

Dedicated to the data center application, this new norm answer to the high rate cabling performance to offer a competitive price per port. if the TIA standard define only one CAT8 category, the ISO standard 11801 Ed3 define 2 types of Cat8 performance :

CATEGORY / CHANNEL	Cat8 TIA	Cat8 ISO	
	Cat8	Cat8.1 / Class I	Cat8.2 / Class II
BANDWIDTH	2 GHz	2 GHz	2 GHz
MAX RATE	40 Gbits/s	40 Gbits/s	40 Gbits/s
MAX LENGHT	30 m	30 m	30 m
CONNECTIVITY	RJ45	RJ45	GG45 / TERRA

Summary of categories

BANDEWIDTH (MHz)	CATEGORIES	CLASS	APPLICATION	APPROVED	TYPE OF CONNECTIVITY
16	3	C	10 Mbits Ethernet	1991	RJ45
100	5e	D	100 Mbits, 1 Gbit, 2,5 Gbits Ethernet	1995	RJ45
250	6	E	1 Gbit, 2,5 Gbits, 5 Gbits Ethernet	2002	RJ45
500	6A	EA	10 Gbits Ethernet	2007	RJ45
600	7	F	10 Gbits Ethernet	2002	GG45 & TERRA
1000	7A	FA	10 Gbits Ethernet & Multimedia	2009	GG45 & TERRA
2000	8.1	I	25 Gbits & 40 Gbits Ethernet	2016	RJ45
2000	8.2	II	25 Gbits & 40 Gbits Ethernet & Multimedia	2016	GG45 & TERRA

THE NEW PoE STANDARD: 4PPoE

The different POE standard and their applications



PoE

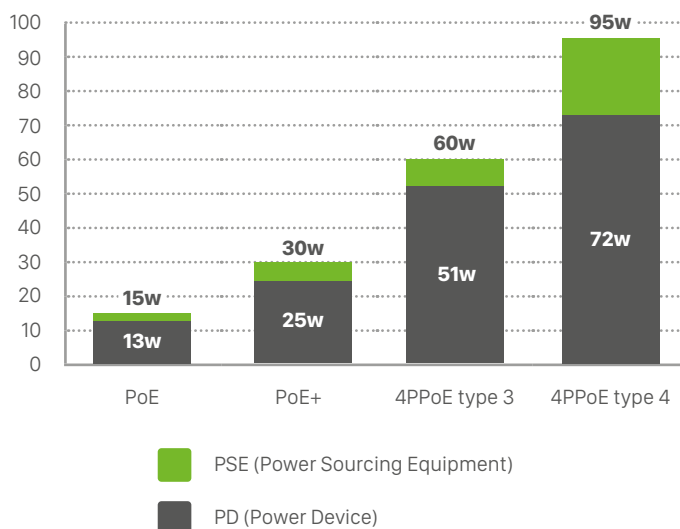
IEEE802.3 af

PoE+

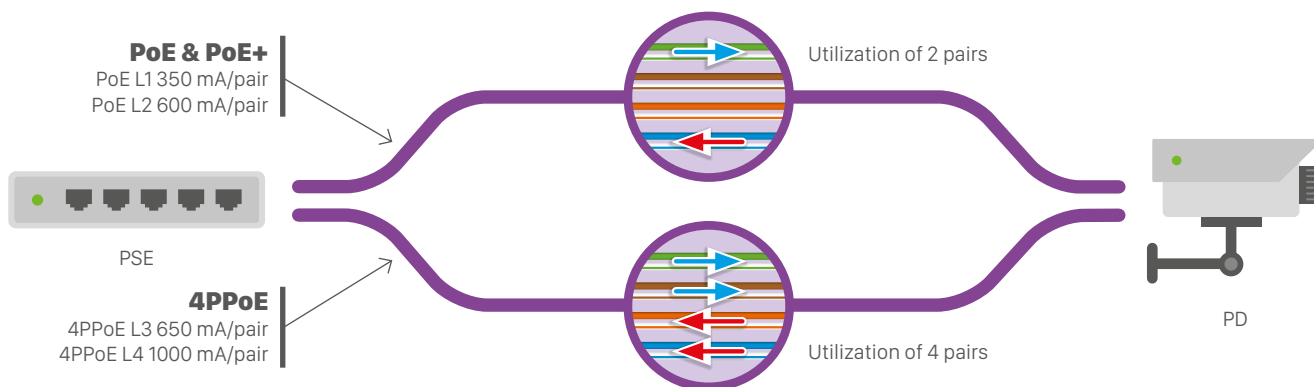
IEEE802.3 at

4PPoE

IEEE802.3 bt



4PPoE : new technical challenges



Cable compatibility with PoE

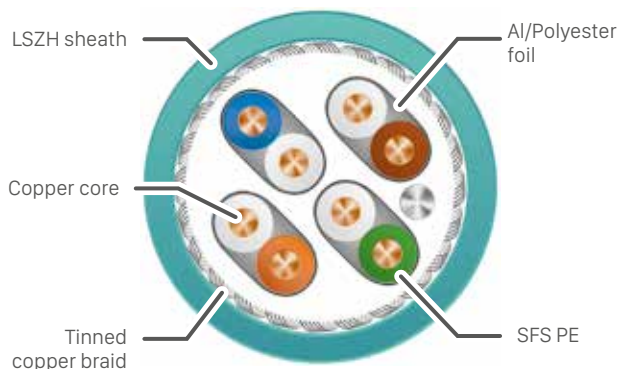
CATEGORY	CABLE TYPE	PoE	PoE+	4PPoE
Cat6	F/UTP CX6xSH	●	●	●
	F/UTP FU510xSH	●	●	●
Cat6A	U/FTP 525xSH	●	●	●
	F/FTP F555xSH	●	●	●
	S/FTP F555xSH	●	●	●
	F6004SHCx	★	★	★
Cat 7	6004SHx	★	★	●
Cat7A	SF1200xSH	★	★	★

● Not recommended ● Adapted ● Recommended ★ Optimal

MMC connectivity POE certified

CONNECTOR	PoE	PoE+	4PPoE
BC6AFSTL8	Certified	Certified	Certified
LK6AFSTL8	Not certified but compliant	Not certified but compliant	Not certified but compliant

CATEGORY 8.1 **S/FTP** CABLE



+ **ADVANTAGES**

- Bandwidth up to 2 000 MHz
- Ethernet up to 40 Gbits/s ideal for Data-Center application
- Excellent EMC thanks to a high braiding coverage

Applications

- DATA : Ethernet up to 40 Gbits/s on 30 m
Ethernet up to 10 Gbits/s on 90 m
- POWER : PoEP and up to 4PPoE

Standards

- CABLE : IEC 61156-9 Cat8.1
- SYSTEM : ISO 11801 Ed.3 Class I

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 pairs twisted with special assembly
SHIELDING	Individual Al/Pes foil and general copper braid shield
SHEATH	LSZH RAL6027

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	135 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	75 %
	Coupling attenuation	80 dB
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	CPR level	Cca s1, d1, a1

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
SF20004SHC5	4	LSZH	8.1	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 7A S/FTP CABLES



+ ADVANTAGES

- Exceed standards performance : up to 1 200 MHz for SF1200xSH
- 4PPoE : Joule effect reduction thanks to AWG22
- Excellent electromagnetic immunity
- Available in high CPR level : up to B2ca
- Available in Indoor and Outdoor version : SF12004SHINOUT

Applications

- VOICE: Analogic, ISDN, VoIP
- DATA: Ethernet up to 10 GBits/s
- POWER : up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat7A
- SYSTEM : ISO 11801 Ed.3 Class Fa
EN 50173-1: 2011 Class Fa

Characteristics

CONDUCTOR	2 x 4 AWG22 solid copper (SF1200xSH and IN/OUT version) 2 x 4 AWG23 solid copper (SF1000xSH)
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil and general copper braid
SHEATH	LSZH yellow RAL 1021 INOUT : LSZH black RAL 9005

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	75 Ω/km
	Characteristics impedance	100 Ω
ELECTRICAL	Nominal velocity propagation	79 %
	Coupling attenuation	80 dB
	Operating temperature	-20°C to +60°C
ENVIRONMENTAL	Fire rating	IEC 60332-1
	CPR level	B2ca s1a, d1, a1 Cca s1a, d1, a1 Dca s2, d2, a2

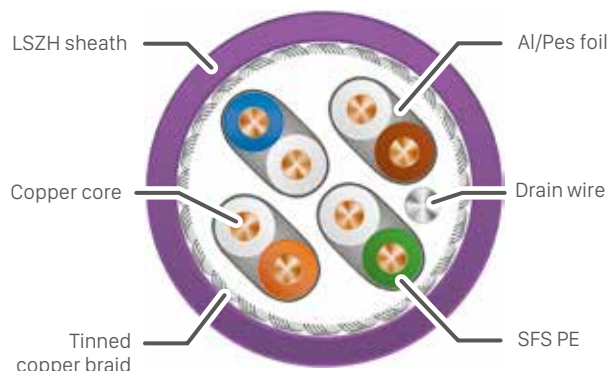
Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*		PACKING (m)
				4P	2x4P	
SF1200xSH5	4 - 8	LSZH	Dca s2, d2, a2	8.2	8.2 x 16.8	D500
SF1200xSHC5	4 - 8	LSZH	Cca s1a, d1, a1	8.2	8.2 x 16.8	D500
SF1200xSHB25	4 - 8	LSZH	B2ca s1a, d1, a1	8.2	8.2 x 16.8	D500
SF1000xSH5	4 - 8	LSZH	Dca s2, d2, a2	7.9	7.9 x 16.1	D500
SF12004SHINOUT	4	LSZH	Dca s2, d2, a2	8.2	-	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

Replace x by number of pairs

CATEGORY 7 **S/FTP** CABLES



+ ADVANTAGES

- Exceed standards performance
- Excellent electromagnetic immunity
- Available in high CPR level : up to B2ca
- Electrical supply of equipments (camera, hotspot wifi, IP phone ...)

Applications

- VOICE: Analogic,, ISDN, VoIP
- DATA: Ethernet up to 10 GBit/s
- POWER: up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat7
- SYSTEM : ISO 11801 Ed.3 Class F
EN 50173-1: 2011 Class F

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil and general copper braid shield
SHEATH	LSZH purple RAL 4001

Properties

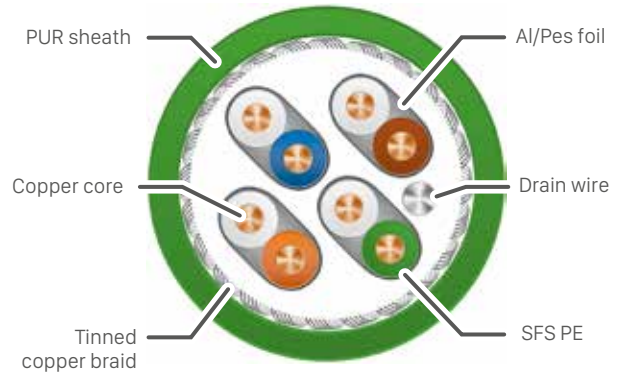
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	70 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	79%
	Coupling attenuation	80 dB
	Operating temperature	-20°C to +60°C
ENVIRONMENTAL	CPR level	B2ca s1a, d1, a1 Cca s1, d1, a1 Dca s2, d2, a2

Ordering information

PART NUMER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*		PACKING (m)
				4P	2x4P	
600x5SHEV	4 - 8	LSZH	Dca s2, d2, a2	7.6	7.6 x 16	D500
600xSHC5	4 - 8	LSZH	Cca s1a, d1, a1	7.6	7.6 x 16	D500
600xSHB25	4 - 8	LSZH	B2ca s1a, d1, a1	7.6	7.6 x 16	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter
Replace x by number of pairs

CATEGORY 7 **S/FTP HARSH ENV. CABLE**



+ **ADVANTAGES**

- Mechanically and electrically adapted to harsh environments : hydrocarbon, oil and microbes resistance
- Excellent electromagnetic immunity
- Adapted for industrial link, such as Industry 4.0 or Profinet standards

Applications

- DATA : Ethernet up to 10 Gbits/s ,industrial network (profinet)
- POWER : up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat7
- SYSTEM : ISO 11801 Ed.3 Class F
EN 50173-3: 2011 Class F

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil and general copper braid shield
SHEATH	PUR green RAL 6017

Properties

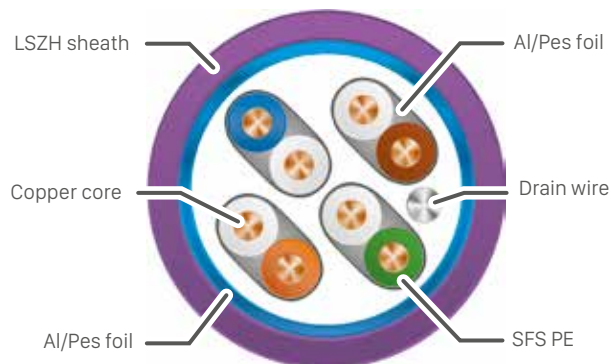
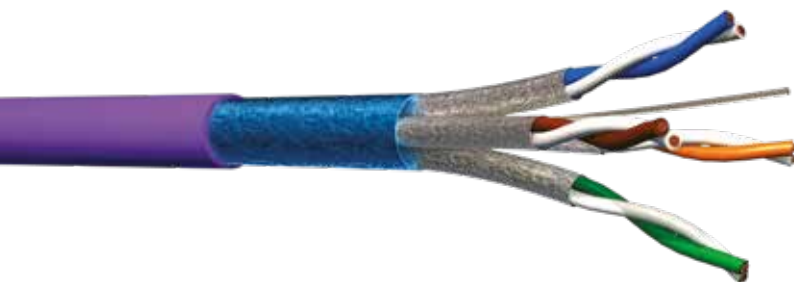
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	74.5 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	77 %
	Coupling attenuation	80 dB
ENVIRONMENTAL	Operating temperature	-40°C to +80°C
	Fire rating	IEC 60332-1
	Chemical resistance	Oil & kerosene UV & ozone Microbes and mud

Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*	PACKING (m)
SF6004PUR10	4	PUR	Eca	7.5	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

90W CATEGORY 6A F/FTP CABLES



+ ADVANTAGES

- 4PPoE : Joule effect reduced thanks to AWG22 and support 90W
- Exceed standards performance: tested up to 600MHz
- Segregation Class D thanks to high EMC
- Excellent CPR level: Cca

Applications

- VOICE: Analogic, ISDN, VoIP
- DATA: Ethernet up to 10 Gbit/s
- POWER: 4PPoE

Standards

- CABLE : IEC 61156-5 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173-1: 2011 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG22 solid copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil Overall shielding Al/Pes foil
SHEATH	LSZH purple RAL 4001

Properties

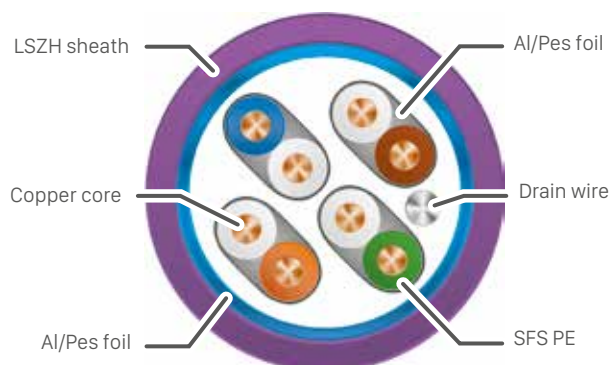
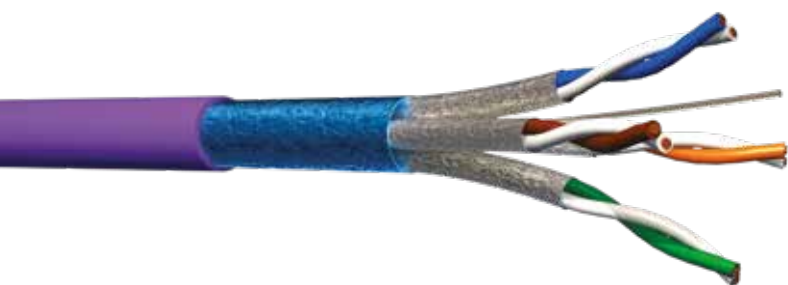
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	75 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	79 %
	Coupling attenuation	80 dB
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	Fire rating	IEC 60332-1
	CPR level	Cca s1a, d1, a1

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
F6004SHC5	4	LSZH	7.6	D500
F6008SHC5	8	LSZH	7.8X15.5	D500

* The external sheath is subject to a +/-0.3 mm difference in diameter

CATEGORY 6A F/FTP CABLES



+ ADVANTAGES

- Exceed standards performance
- Excellent electromagnetic immunity
- Available with an excellent CPR level: up to B2ca

Applications

- VOICE: Analogic, ISDN, VoIP
- DATA: Ethernet up to 10 Gbits/s
- POWER: up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173-1: 2011 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil Overall general shielding Al/Pes foil
SHEATH	LSZH purple RAL 4001

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	79 %
	Coupling attenuation	75 dB
	Operating temperature	-20°C to +60°C
ENVIRONMENTAL	Fire rating	IEC 60332-1
	CPR level	B2ca s1a, d1, a1 Cca s1, d1, a1 Dca s2, d2, a2

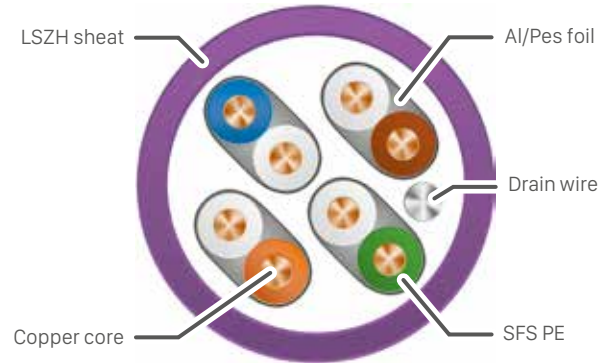
Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*		PACKING (m)
				4P	2x4P	
F555xSHy	4 - 8	LSZH	Dca s2, d2, a2	7.4	7.4 x 15.3	C100 - B305 - D500
F555xSHCy	4 - 8	LSZH	Cca s1, d1, a1	7.4	7.4 x 15.3	B305 - D500
F555xSHB25	4 - 8	LSZH	B2ca s1a, d1, a1	7.4	7.4 x 15.3	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter
Replace x by number of pairs

Replace y by 1 for C100, 5 for T500 or B for box of 305m

CATEGORY 6A U/FTP CABLES



+ ADVANTAGES

- Exceed standards performance: tested up to 525 MHz
- Available with an excellent CPR level : up to B2ca

COPPER CABLES

Applications

- VOICE: Analogic, ISDN, VoIP
- DATA: Ethernet up to 10 Gbits/s
- POWER : up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173-1: 2011 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil
SHEATH	LSZH purple RAL 4001

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	78 %
	Coupling attenuation	70 dB
	Operating temperature	-20°C to +60°C
ENVIRONMENTAL	Fire rating	IEC 60332-1
	CPR level	B2ca s1a, d1, a1 Cca s1, d1, a1 Dca s2, d2, a2

Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*		PACKING (m)
				4P	2x4P	
525xSHy	4 - 8	LSZH	Dca s2, d2, a2	7.3	7.3 x 15.2	C100 - B305 - D500
525xSHCy	4 - 8	LSZH	Cca s1a, d1, a1	7.3	7.3 x 15.2	B305 - D500
525xSHB25	4 - 8	LSZH	B2ca s1a, d1, a1	7.3	7.3 x 15.2	D500

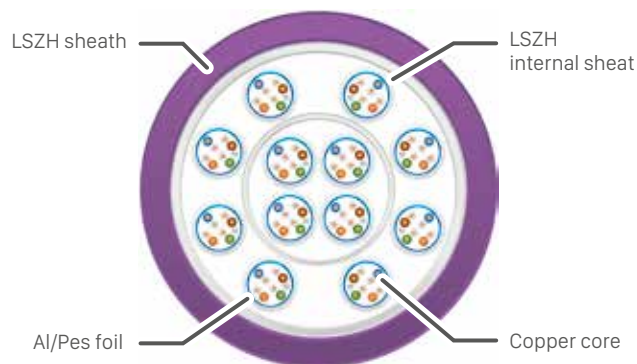
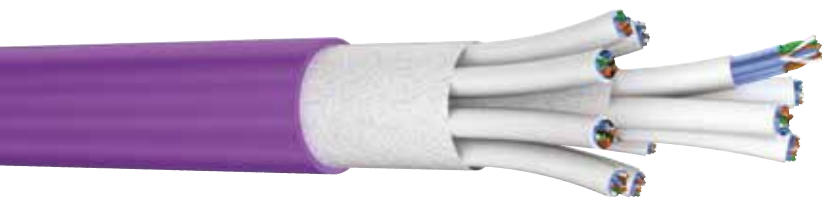
* The external sheath is subject to a +/-0.2 mm difference in diameter
Replace x by number of pairs

Replace y by 1 for C100, 5 for T500 or B for box of 305m

CATEGORY 6A U/FTP AWG26 CABLES



ON REQUEST



+ ADVANTAGES

- Dedicated to Data Center application
- Tested up to 525 MHz
- Saving space thanks small diameter (AWG26)
- Available on request to 6 x 4 and 12 x 4 pairs version

Applications

- VOICE : Analogic, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s

Standards

- CABLE : IEC 61156-5 Cat6A up to 60 m
- SYSTEM : ISO 11801 Ed.3 Ea Class up to 60 m
EIA / TIA 568.2-D Cat6A up to 60 m
EN 50173-1: 2011 Ea Class up to 60 m

Characteristics

CONDUCTOR	2 x 4 AWG26 solid copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil
SHEATH	Outer sheath LSZH purple RAL 4001 Inner sheath : LSZH grey RAL 7035

Properties

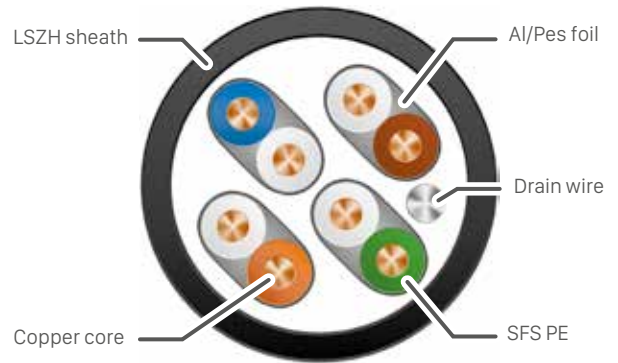
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	135 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	76 %
	Coupling attenuation	70 dB
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	Fire rating	IEC 60332-1

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
525A26SH	4	LSZH	5.7	D1000
P12525A26SH	12 x 4	LSZH	26.6	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6A U/FTP IN/OUT CABLE



+ ADVANTAGES

- Exceed standards performance: tested up to 525 MHz
- Easy installation : suitable for indoor and outdoor applications, water and UV resistant
- Tested in high climatic environment

COPPER CABLES

Applications

- VOICE : Analogic, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s
- POWER : up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173 Ed2.2 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil
SHEATH	LSZH black with high degree UV protection

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
	Characteristics impedance	100 Ω
ELECTRICAL	Nominal velocity propagation	78 %
	Coupling attenuation	70 dB
	Operating temperature	-20°C to +60°C
ENVIRONMENTAL	UV resistance	IEC 60068-2-5
	Ozone resistance	ASTM D-470
	Moisture resistance	CEI20-34
	CPR level	Dca s2, d2, a2

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
5254SHINOUT	4	LSZH	7.3	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6A F/UTP CABLES



+ ADVANTAGES

- Exceed standards performance: tested up to 510 MHz
- Electrical supply of equipments (camera, hotspot wifi, IP phone ...)

Applications

- VOICE : Analogic, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s
- POWER : up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173-1: 2011 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs over a central PE cross
SHIELDING	Overall general shielding Al/Pes foil
SHEATH	LSZH purple RAL 4001

Properties

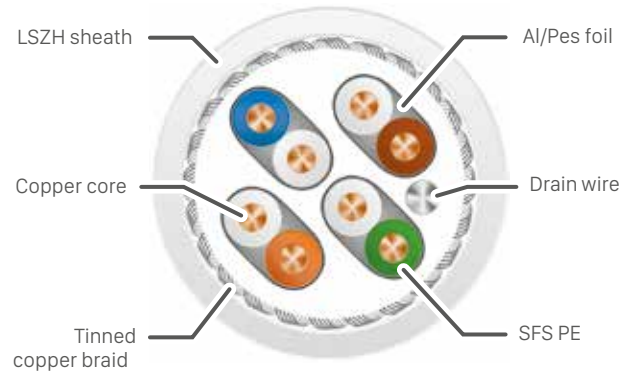
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	66 %
	Coupling attenuation	65 dB
	Operating temperature	-20°C to +60°C
ENVIRONMENTAL	Fire rating	IEC 60332-1
	CPR level	Dca s2, d2, a2

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
FU5104SH5	4	LSZH	7.0	D500
FU5108SH5	2 x 4	LSZH	7 x 14.5	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6A S/FTP CABLES



+ ADVANTAGES

- Discreet installation thanks to his white external sheath
- Excellent electromagnetic immunity: thanks to a double shielding S/FTP
- Available in excellent CPR level: up to B2ca

COPPER CABLES

Applications

- VOICE : Analogic, ISDN, VoIP
- DATA : Ethernet up to 10Gbit/s
- POWER : up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173-1: 2011 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil Overall general tinned copper braid shield
SHEATH	LSZH white RAL 9010

Properties

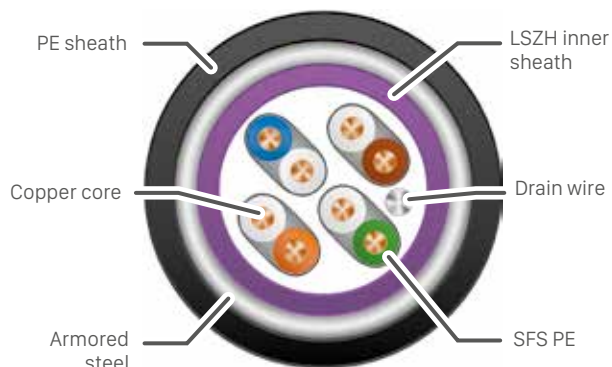
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	78 %
	Coupling attenuation	>80 dB
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	Fire rating	IEC 60332-1
	CPR level	B2ca s1a, d1, a1 Cca s1a, d1, a1

Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*	PACKING (m)
SF5004SHWC5	4	LSZH	Cca s1a, d1, a1	7.6	D500
SF5004SHWB25	4	LSZH	B2ca s1a, d1, a1	7.6	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6A U/FTP ARMORED CABLE PE



+ ADVANTAGES

- Exceed standards performance: tested up to 525 MHz
- Excellent rodent protection: Armored steel tape
- Direct buried installation thanks to a high crush resistance

Applications

- VOICE : Analogic, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s
- POWER : up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173-1: 2011 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG23solid copper
INSULATION	Skin-Foam-Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil
ARMOR	Corrugated steel tape
SHEATH	Outer sheath: PE black RAL 9005 Inner sheath: LSZH purple RAL 4001

Properties

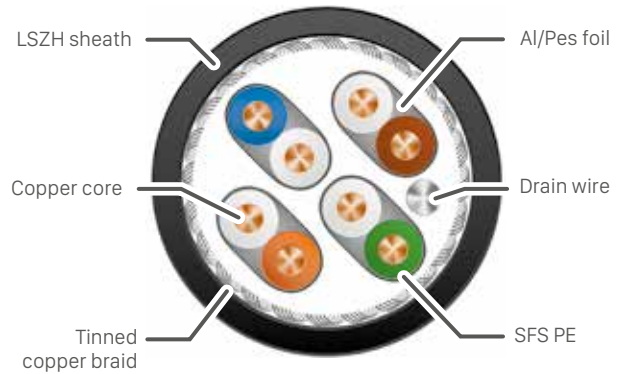
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	78 %
	Coupling attenuation	65 dB
	Operating temperature	-20°C à +60°C
ENVIRONMENTAL	CPR level	Fca

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
5254ARPE	4	PE	10.3	T500

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6A AWG26 IN/OUT S/FTP CABLES



+ ADVANTAGES

- Easy installation : AWG26 allow easy termination with RJ45 plug to IP equipment
- Saving space thanks to small cable diameter
- Water and UV resistant : suitable for indoor and outdoor applications

Applications

- VOICE: Analogic, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s on 60 m

Standards

- CABLE : IEC 61156-5 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class (60 m)
EIA/TIA 568.2-D Cat6A (60 m)
EN 50173-1: 2011 Ea Class (60 m)

Characteristics

CONDUCTOR	2 x 4 AWG26 solid copper
INSULATION	Skin-Foam-Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil Overall tinned copper braid shield
SHEATH	LSZH black RAL 9005

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	145 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	70 %
	Operating temperature	-20°C to +60°C
ENVIRONMENTAL	Fire rating	IEC 60332-1
	CPR level	Dca s2, d2, a2

Operating information

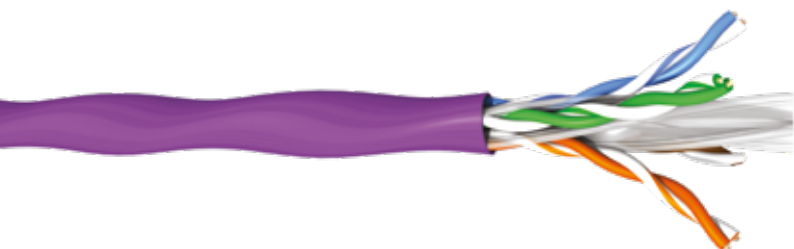
PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
SF5004SHA26IO10	4	LSZH	6	D1000
SF5004SHA26IOB	4	LSZH	6	B305

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6A U/UTP CABLE



ON REQUEST



+ ADVANTAGES

- Exceed standards performance : tested up to 510 Mhz
- Component certified
- Unique design for Alien Crosstalk compensation

Applications

- VOICE : Analogic, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s
- POWER : up to 4PPoE

Standards

- CABLE : IEC 61156-5 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173-1: 2011 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs on asymmetric central PE cross
SHEATH	LSZH purple RAL 4001

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	66 %
ENVIRONMENTAL	Operating temperature	-10°C to +50°C
	CPR level	Dca s2, d2, a2

Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*	PACKING (m)
U5104SH5	4	LSZH	Dca s2, d2, a2	7.8 x 9.1	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter

** reel in box

CATEGORY 6A U/UTP LINK CERTIFIED CABLES



+ ADVANTAGES

- Compliant to ISO 11801 Ed3.0 Classe Ea
- Available in high Cca CPR level
- Diameter optimised

COPPER CABLES

Applications

- VOIX : Analogic, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s
- POWER : up to 4PPoE

Standards

- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173-1: 2011 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs on a central PE cross
SHEATH	LSZH purple RAL 4001

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	66 %
ENVIRONMENTAL	Operating temperature	-10°C to +50°C
	CPR level	Cca s1, d1, a1 Dca s2, d2, a2

Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*	PACKING (m)
U500L4SH5	4	LSZH	Dca s2, d2, a2	7.16	D500
U500L4SHC5	4	LSZH	Cca s1, d1, a1	7.16	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6 F/UTP CABLES



+ ADVANTAGES

- Exceed standards performance: tested up to 350 MHz
- Available in high CPR level: up to B2ca
- Electrical supply equipment (camera, hotspot wifi, IP phone ...)

Applications

- VOICE: Analogic, ISDN, VoIP
- DATA: Ethernet up to 1 Gbit/s
- POWER: PoE / PoEP

Standards

- CABLE : IEC 61156-5 Cat6
- SYSTEM : ISO 11801 Ed.3 E Class
EIA/TIA 568.2-D Cat6
EN 50173-1: 2011 E Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs on a central PE cross
SHIELDING	General Al/Pes foil
SHEATH	LSZH blue RAL 5024

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	66 %
	Coupling attenuation	65 dB
	Operating temperature	-20°C to +60°C
ENVIRONMENTAL	CPR level	Cca s1, d1, a1 Dca s2, d2, a2

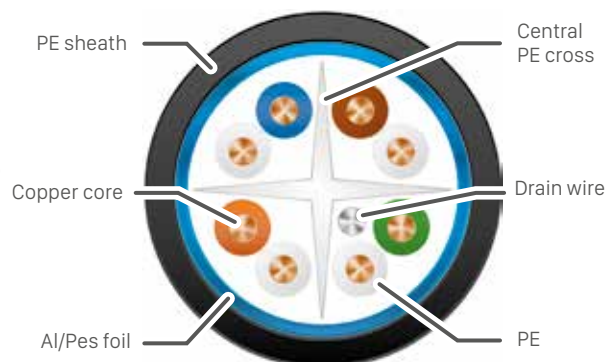
Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*		PACKING (m)
				4P	2 x 4P	
CX6xSHy	4 - 8	LSZH	Dca s2, d2, a2	7.0	7.0 x 14.5	C100 - B305 - D500
CX6xSHC5	4 - 8	LSZH	Cca s1, d1, a1	7.0	7.0 x 14.5	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter
Replace x by number of pairs

Replace y by 1 for C100, 5 for T500 or B for Box 305m

CATEGORY 6 **OUTDOOR F/UTP** CABLE



+ ADVANTAGES

- Suitable for outdoor applications thanks to PE sheath
- Exceed standards performance: tested up to 350 MHz
- Electrical supply equipment (camera, hotspot wifi, IP phone ...)

Applications

- VOICE : Analogic, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s
- POWER : PoE / PoEP

Standards

- CABLE : IEC 61156-5 Cat6
- SYSTEM : ISO 11801 Ed.3 E Class
EIA/TIA 568.2-D Cat6
EN 50173-1: 2011 E Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs on a central PE cross
SHIELDING	General Al/Pes foil
SHEATH	Black PE

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	66 %
	Coupling attenuation	65 dB
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
CX64PE	4	PE	7.1	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6 U/UTP CABLES



+ ADVANTAGES

- Exceed standards performance: tested up to 350 MHz
- Available in high CPR level: Cca
- Electrical supply equipment (camera, hotspot wifi, IP phone ...)

Applications

- VOICE : Analogique, ISDN, VoIP
- DATA : Ethernet jusqu'à 1 Gbit/s
- ALIMENTATION : PoE/PoEP

Normes

- CABLE : IEC 61156-5 Cat6
- SYSTEM : ISO 11801 Ed.3 Classe E
EIA/TIA 568.2-D Cat6
EN 50173-1: 2011 Classe E

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs on a central PE cross
SHEATH	VG6x: PVC blue RAL 5024 VG6xSH: LSZH blue RAL 5024

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	69 %
ENVIRONMENTAL	Operating temperature	-20°C to +70°C
	Fire rating	IEC 60332-1
	CRP level	Dca s2, d2, a2 Cca s1, d1, a1

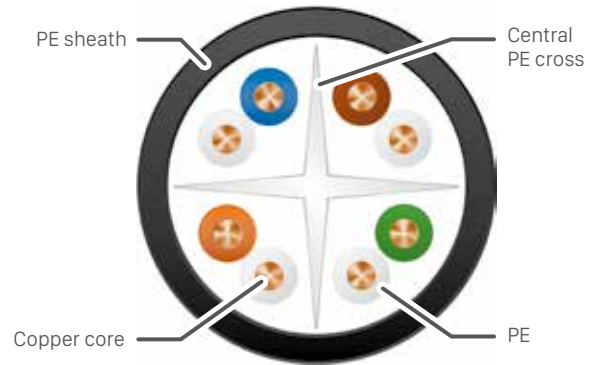
Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*	PACKING (m)
VG6xy	4	PVC	Eca	6.1	B305 - Reel in box** 305 - D500
VG6xSHy	4	LSZH	Dca s2, d2, a2	5.6	B305 - Reel in box** 305 - D500
VG6xSHCy	4	LSZH	Cca s1a, d1, a1	6.1	B305 - D500

** The external sheath is subject to a +/-0.2 mm difference in diameter
Replace y by 5 for T500, B for Box 305 or RIB for Reel in box 305

** Reel in box

CATEGORY 6 OUTDOOR U/UTP CABLE



+ ADVANTAGES

- Suitable for outdoor applications
- Electrical supply equipment (camera, hotspot wifi, IP phone ...)

COPPER CABLES

Applications

- VOICE : Analogic, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s
- POWER : PoE / PoEP

Standards

- CABLE : IEC 61156-5 Cat6
- SYSTEM : ISO 11801 Ed.3 E Class
EIA/TIA 568.2-D Cat6
EN 50173-1: 2011 E Class

Characteristics

CONDUCTOR	2 x 4 AWG23 solid copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs on a central PE cross
SHEATH	Black PE

Properties

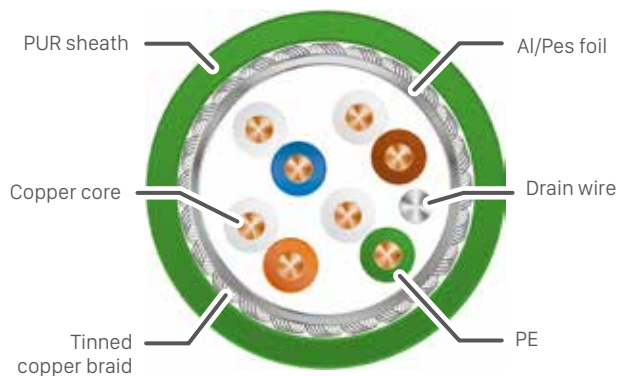
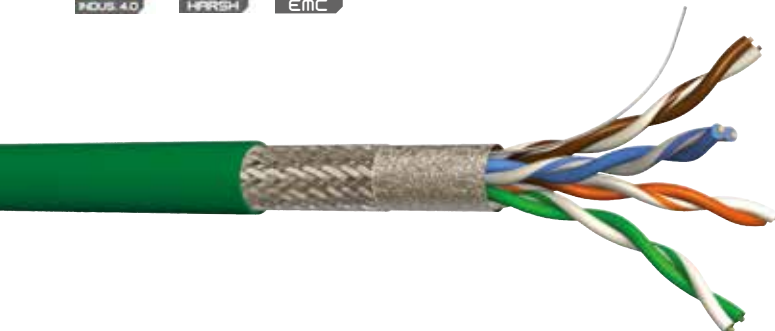
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	66 %
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering informations

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
VG64PE5	4	PE	6.2	D500

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 5e SF/UTP HARSH ENV. CABLE



+ ADVANTAGES

- PUR sheath mechanically and electrically suitable for harsh environment: hydrocarbon, oil ...
- Excellent electromagnetic immunity : thanks to a high shielding SF/UTP
- Suitable for industrial link with Profinet standards

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s, industrial network (profinet ...)
- POWER : PoE

Standards

- CABLE : IEC 61156-5 Cat5e
- SYSTEM : ISO 11801 Ed.3 D Class
EIA/TIA 568.2-D Cat5e
EN 50173-3: 2011 D Class
ISO/IEC 24702

Characteristics

CONDUCTOR	2 x 4 AWG24 solid copper
INSULATION	PE
ASSEMBLY	4 twisted pairs
SHIELDING	Double overall tinned copper braid shielding and Al/Pes foil shielding
SHEATH	PUR green RAL 6018

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	93 Ω/km
	Characteristics impedance	100 Ω
ELECTRICAL	Nominal velocity propagation	73 %
	Coupling attenuation	75 dB
	Operating temperature	-40°C to +80°C
ENVIRONMENTAL	Chemical resistance	Oil and kerosene UV and ozonemi- crobes and mud
	Fire rating	IEC 60332-1

Ordering information

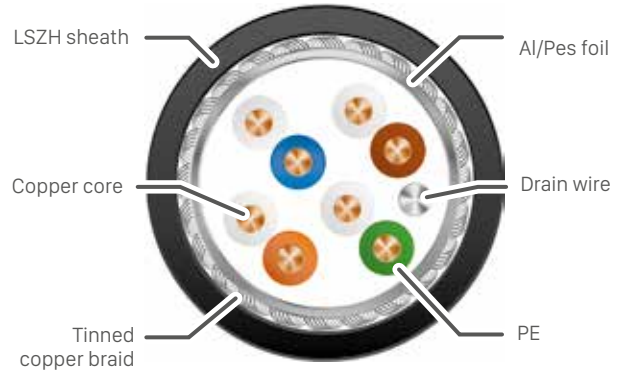
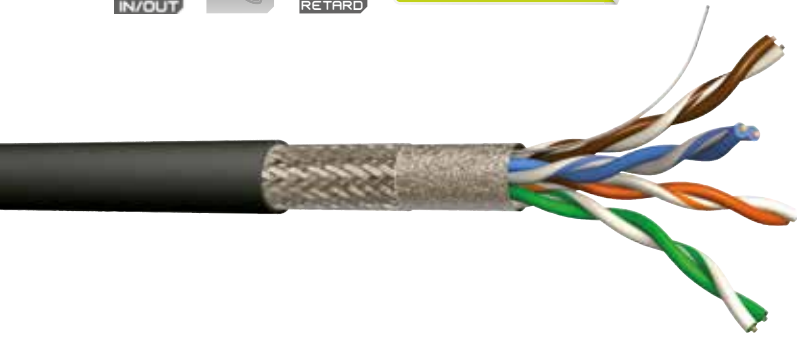
PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
SFU1004PUR10	4	PUR	6.2	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 5E IN/OUT SF/UTP CABLE



ON REQUEST



+ ADVANTAGES

- CAT5E perfect cable for IOT connection
- Water and UV resistant : suitable for indoor and outdoor applications

COPPER CABLES

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s
- POWER : PoE

Standards

- CABLE : IEC 61156-5 Cat5e
- SYSTEM : ISO 11801 Ed.3 D Class
EIA/TIA 568.2-D Cat5e
EN 50173-1: 2011 D Class

Characteristics

CONDUCTOR	2 x 4 AWG24 solid copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs
SHIELDING	Double overall tinned copper braid and Al/Pes foil shielding
OUTDOOR SHEATH	LSZH black RAL 9005

Properties

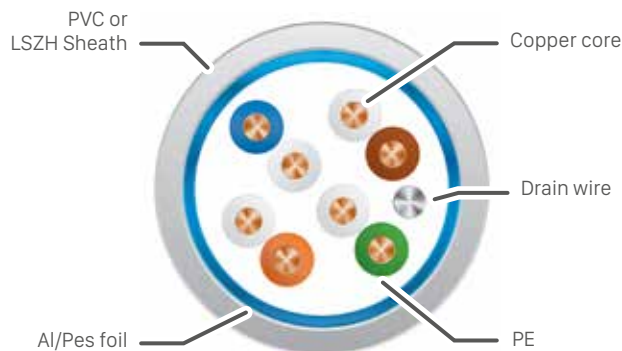
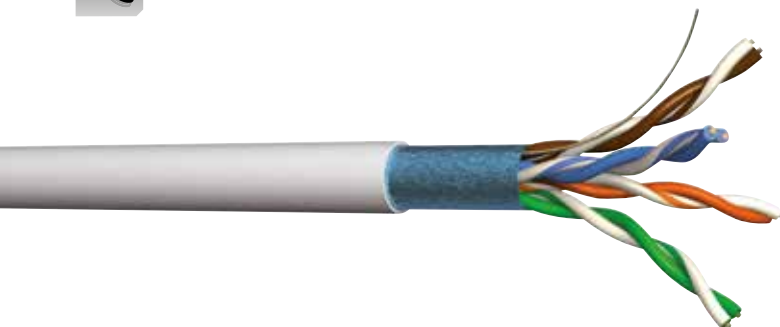
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	66 %
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	Fire rating	IEC 60332-1

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
SFU1004SHINOUT10	4	LSZH	6.5	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 5e F/UTP CABLES



+ ADVANTAGES

- Exceed standard performance
- Flame retardant
- Excellent electromagnetic immunity

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s
- POWER: PoE

Standards

- CABLE : IEC 61156-5 Cat5e
- SYSTEM : ISO 11801 Ed.3 D Class
EIA/TIA 568.2-D Cat5e
EN 50173-1: 2011 D Class

Characteristics

CONDUCTOR	2 x 4 AWG24 solid copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs
SHIELDING	Overall Al/Pes foil
SHEATH	PVC Grey RAL 7035 SGBxSH LSZH grey RAL 7035

Properties

MECHANICAL	Bending radius	8 x Ø
	Linear resistance	95 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Coupling attenuation	65 dB
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	Fire rating	IEC 60332-1
	CPR level	Dca s2, d2, a2 Eca

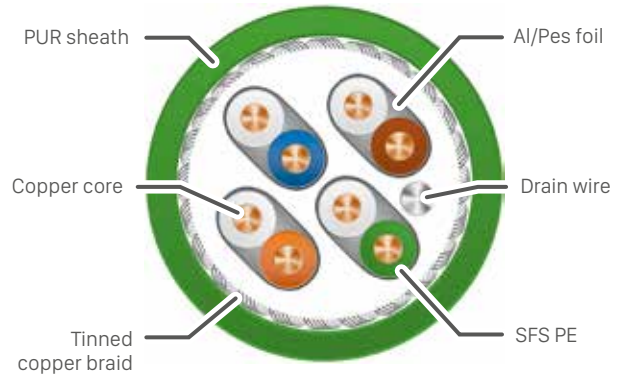
Ordering information

PART NUMBER	PAIRS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)*		PACKING (m)
				4P	2 x 4P	
SGBxy	4 - 8	PVC	Eca	5.7	5.7 x 12	C100 - B305
SGBxySH	4 - 8	LSZH	Dca s2, d2, a2	5.7	5.7 x 12	C100 - B305 - D500

* The external sheath is subject to a +/-0.2 mm difference in diameter
Replace x by number of pairs

Replace y by 1 for C100, 5 for T500 or B for Box 305m

CATEGORY 7 S/FTP HARSH ENV. CABLE



+ ADVANTAGES

- Stranded cable ideal for industrial links requiring flexibility
- Excellent electromagnetic immunity: thanks to a double shielding S/FTP
- PUR sheath adapted to harsh environment

COPPER CABLES

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s, industrial networks (profinet ...)
- POWER : PoE

Standards

- CABLE : IEC 61156-6 Cat7
- SYSTEM : ISO 11801 Ed.3 F Class
EIA/TIA 568.2-D Cat7
EN 50173-1: 2011 F Class

Characteristics

CONDUCTOR	2 x 4 AWG26/7 cuivre multibrin
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al / Pes shielding, Overall tinned copper braid shielding
SHEATH	PUR green RAL 6018

Properties

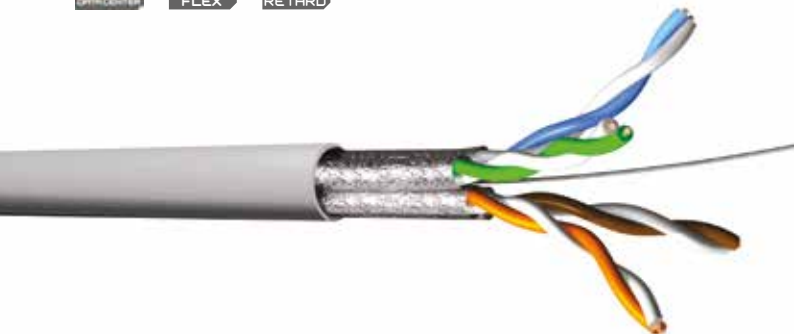
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	143 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	77 %
	Coupling attenuation	65 dB
ENVIRONMENTAL	Operating temperature	-40°C to +80°C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
SF600P4PUR10	4	PUR	6.4	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6A U/FTP CABLE



+ ADVANTAGES

- Suitable for patch cord conception or consolidation point links up to CAT6A
- Excellent electromagnetic immunity
- Flame retardant

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s
- POWER: PoE

Standards

- CABLE : IEC 61156-6 Cat6A
- SYSTEM : ISO 11801 Ed.3 Ea Class
EIA/TIA 568.2-D Cat6A
EN 50173-1: 2011 Ea Class

Characteristics

CONDUCTOR	2 x 4 AWG26/7 stranded copper
INSULATION	Skin Foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Individual Al/Pes foil
SHEATH	LSZH grey RAL 7035

Properties

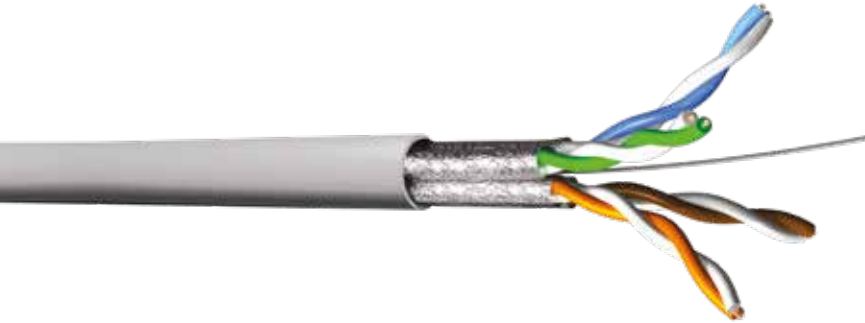
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	145 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	78 %
	Coupling attenuation	65 dB
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
555P4SH	4	LSZH	5.9	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 6 U/FTP CABLES



+ ADVANTAGES

- Suitable for patch cord conception or consolidation point links up to CAT6A
- Excellent electromagnetic immunity
- Flame retardant

COPPER CABLES

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s
- POWER: PoE

Standards

- CABLE : IEC 61156-6 Cat6
- SYSTEM : ISO 11801 Ed.3 E Class
EIA/TIA 568.2-D Cat6
EN 50173-1: 2011 E Class

Characteristics

CONDUCTOR	2 x 4 AWG26/7 stranded copper
INSULATION	Solid PE
ASSEMBLY	2 x 4 twisted pairs
SHIELDING	Individual Al/Pes foil
SHEATH	PVC dark blue or grey

Properties

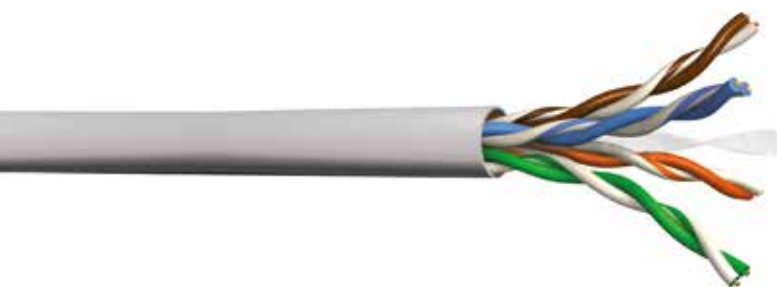
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	154 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	66 %
	Coupling attenuation	65 dB
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	Fire rating	IEC 60332-1

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
TX200P4FPy	4	PVC dark blue	5.6	C 100 - D1000
TX200P4FPGy	4	PVC grey	5.6	C 100 - D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter
Replace y by 1 for C100

CATEGORY 6 U/UTP CABLE



+ ADVANTAGES

- Flexible and easy to connect
- Suitable for patch cord conception or point link consolidation up to Cat6
- Flame retardant

Applications

- VOICE: Analog, ISDN, VoIP
- DATA: Ethernet up to 1 Gbit/s
- POWER: PoE

Standards

- CABLE : IEC 61156-6 Cat6
- SYSTEM : ISO 11801 Ed.3 E Class
EIA/TIA 568.2-D Cat6
EN 50173-1: 2011 E Class

Characteristics

CONDUCTOR	2 x 4 AWG26/7 stranded copper
INSULATION	Solid PE
ASSEMBLY	4 twisted pairs on central PE cross
SHEATH	PVC grey RAL 7035

Properties

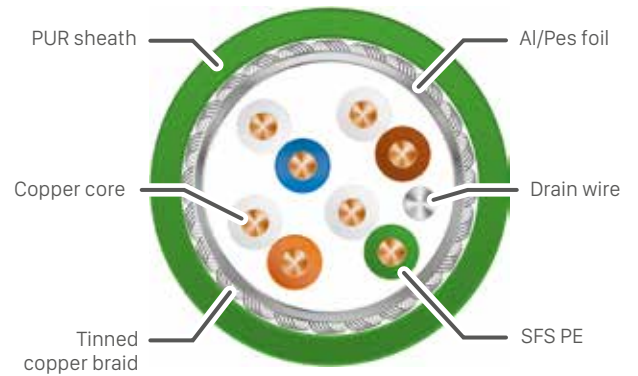
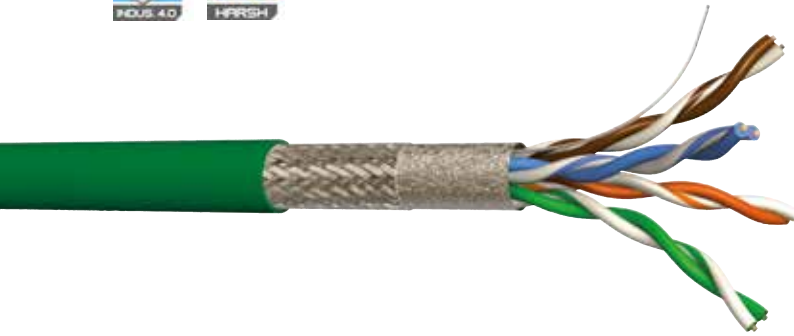
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	145 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	66 %
ENVIRONMENTAL	Operating temperature	-20°C to +60°C
	Fire rating	IEC 60332-1

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
VG200P4FPG	4	PVC	5.6	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

CATEGORY 5e F/UTP HARSH ENV. CABLE



+ ADVANTAGES

- Mechanically and electrically suitable for harsh environments thanks to its PUR sheath : hydrocarbon, oil...
- Stranded cable suitable for flexible industrial link
- Excellent electromagnetic immunity thanks to its double shielding: S/FTP

COPPER CABLES

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s, industrial network (profinet ...)
- POWER : PoE

Standards

- CABLE : IEC 61156-6 Cat5e
- SYSTEM : ISO 11801 Ed.3 D Class
EIA/TIA 568.2-D Cat5e
EN 50173-1: 2011 D Class

Characteristics

CONDUCTOR	2 x 4 AWG26/7 stranded copper
INSULATION	Skin foam Skin PE
ASSEMBLY	4 twisted pairs
SHIELDING	Overall Al/Pes shielding and tinned copper braid shielding
SHEATH	PUR green RAL 6018

Properties

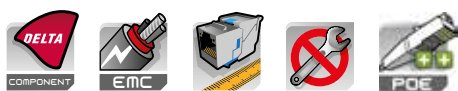
MECHANICAL	Bending radius	8 x Ø
	Linear resistance	139 Ω/km
ELECTRICAL	Characteristics impedance	100 Ω
	Nominal velocity propagation	74 %
	Coupling attenuation	65 dB
ENVIRONMENTAL	Operating temperature	-40°C to +80°C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1

Ordering information

PART NUMBER	PAIRS	SHEATH	OUTER DIAMETER (mm)*	PACKING (m)
SFU100P4PUR10	4	PUR	5.8	D1000

* The external sheath is subject to a +/-0.2 mm difference in diameter

SHIELDED CAT6A BC MODULAR JACK



+ ADVANTAGES

- Component certified connector by a third laboratory
- Compact Keystone connector : very low depth
- 4PPoE certified compliant to IEC 60512-99-002
- Dust shutter in different colors available

Applications

- VOICE : Analog, ISDN, VoIP
- DATA: Ethernet up to 10 Gbits/s
- POWER : up to 4PPoE

Standards

- COMPONENT : IEC 60603-7-51
- SYSTEM : ISO 11801 Ed.3 Classe Ea
EIA/TIA 568-C.2 Cat6A
EN 50173-1: 2011 Classe Ea

Characteristics

DIMENSIONS	21.9 mm x 28.25 mm x 16 mm (H x W x D)
CONTACT	Bronze/platine/nickel + gold platingr
PCB	Optimized PCB 4 layers
IDC	V shape : bronze/platine & copper + SnPb
TERMINATION	Tool less solid cable and stranded AWG26 to AWG23
SHIELDING	360° shielding
BODY	One part Zamac keystone

Properties

MECHANICAL	Insertion cycle	750 cycles min/1000 nom.
	Operating Voltage	≤ 72V DC
ELECTRICAL	Test Voltage	≥ 1000V DC contact to contact ≥ 1500V DC contact to ground (IEC 60512-4-1)
	Contact resistance	≤ 20 mΩ IEC 60512-2-1
	Power	100 W
ENVIRONMENTAL	Coupling attenuation	compliant to the ISO 11801
	Operating temperature	-40°C to +70°C
	Fire behavior	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BC6AFSTL8	Tool less full shielded CAT6A RJ45 modular jack - BCTL range	Pack of 8
BC6AFSTL50	Tool less full shielded CAT6A RJ45 modular jack - BCTL range	Pack of 50
BCDUSTSHx8	Dust shutter for MMC RJ45 jack	Pack of 8

Replace x by the color needed BL: white, B: blue, R: red, J: yellow, V: green

UNSHIELDED CAT6A **BC** MODULAR JACK



+ ADVANTAGES

- Component certified connector by a third laboratory
- 4PPoE certified : compliant to IEC 60412-99-002
- Tool less fast and easy termination
- Dust shutter available in different colors

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s
- POWER : up to 4PPoE

Standards

- COMPONENT : IEC 60603-7-5
- SYSTEM : ISO 11801 Ed.3 Classe Ea
EIA/TIA 568-C.2 Cat6A
EN 50173-1: 2011 Classe Ea

Characteristics

DIMENSIONS	21.9 mm x 28.25 mm x 16 mm (H x W x D)
CONTACT	Bronze/platine/nickel + gold plating
PCB	Optimized PCB 4 layers
IDC	V shape : bronze/platine and copper + SnPb
TERMINATION	Tool less solid and stranded cable to AWG24 to AWG23
BODY	One part ABS keystone

Properties

MECHANICAL	Insertion cycle	750 cycles min / 1000 nom.
	Operating voltage	≤ 72V DC
ELECTRICAL	Test voltage	≥ 1000V DC contact to contact
	Contact resistance	≤ 20 mΩ IEC 60512-2-1
	Power	100W
ENVIRONMENTAL	Operating temperature	-40°C to +70°C
	Fire behavior	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BC6ANBTL50	Tool less unshielded CAT6A RJ45 modular jack - BCTL range	Pack of 50
BCDUSTSHx8	Dust shutter for MMC RJ45 jack	Pack of 8

Replace x by the color needed BL: white, B: blue, R: red, J: yellow, V: green

FULL SHIELDED CAT6A **LK MODULAR JACK**



+ ADVANTAGES

- CAT6A RJ45 tool less modular jack
- CAT6A/Class Ea link certified connector
- Easy and fast tool less termination
- Compact Keystone connector

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s
- POWER : up to 4PPoE

Standards

- COMPONENT : IEC 60603-7-5
- SYSTEM : ISO 11801 Ed 3 Classe Ea
EIA/TIA 568-C.2 Cat6A
EN 50173-1: 2011 Classe Ea

Characteristics

DIMENSIONS	21.9 mm x 28.25 mm x 16 mm (H x W x D)
CONTACT	Bronze/platine/nickel + gold plating
PCB	Optimized PCB
IDC	V shape : bronze/platine and copper + SnPb
TERMINATION	Tool less solid cable to AWG24 to AWG23
SHIELDING	360° shielding
BODY	One part Zamac keystone

Properties

MECHANICAL	Insertion cycle	750 cycles min / 1000 nom.
	Operating voltage	≤ 72V DC
ELECTRICAL	Test voltage	≥ 1000V DC contact to contact ≥ 1500 V DC contact to ground (IEC 60512-4-1)
	Contact resistance	≤ 20 mΩ IEC 60512-2-1
	Power	100W
ENVIRONMENTAL	Coupling attenuation	Compliant to the ISO 11801
	Operating temperature	-40°C to +70°C
	Fire behavior	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
LK6AFSTL8	Tool less full shielded CAT6A RJ45 modular jack - Link+ range	Pack of 8
BCDUSTSHx8	Dust shutter for MMC RJ45 jack	Pack of 8

Replace x by the color needed BL: White, B: blue, R: red, J: yellow, V: green

SHIELDED CAT6 **BC** MODULAR JACK



+ ADVANTAGES

- Exceed the CAT6 standard performance
- Fast and easy tool less termination
- Keystone compact connector : better compatibility with big part of the box
- Dust shutter available in different colors

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s (TR24750 et TSB155)
- POWER : up to PoEP

Standards

- COMPONENT : IEC 60603-7-5
- SYSTEM ISO 11801 Ed.3 Classe E
EIA/TIA 568-C.2 Cat6
EN 50173-1: 2011 Classe E

Characteristics

DIMENSIONS	21.9 mm x 28.25 mm x 16 mm (H x W x D)
CONTACT	Bronze/platine/nickel + gold plating
PCB	Double layers optimized PCB
IDC	V shape : bronze/platine and copper + SnPb
TERMINATION	Tool less solid and stranded cable to AWG24 to AWG23
SHIELDING	360° shielding
BODY	One part Zamac keystone

Propriétés

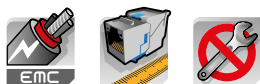
MECHANICAL	Insertion cycle	750 cycles min/1000 nom.
	Operating voltage	≤ 72V DC
ELECTRICAL	Test voltage	≥ 1000V DC contact to contact ≥ 1500 V DC contact to ground (IEC 60512-4-1)
	Contact resistance	≤ 20mΩ IEC 60512-2-1
	Power	<u>30W</u>
ENVIRONMENTAL	Coupling attenuation	Compliant to the ISO 11801
	Operating temperature	-40°C to +70°C
	Fire behavior	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BC6FSTL8	Tool less full shielded CAT6 RJ45 modular jack - BCTL range	Pack of 8
BC6FSTL50	Tool less full shielded CAT6 RJ45 modular jack - BCTL range	Pack of 50
BCDUSTSHx8	Dust shutter for MMC RJ45 jack	Pack of 8

Replace x by the color needed BL: white, B: blue, R: red, J: yellow, V: green

SHIELDED CAT6 **LK** MODULAR JACK



+ ADVANTAGES

- CAT6/Class E link certified connector
- Fast and easy tool less termination!
- Keystone compact connector : better compatibility with big part of the box

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1Gbits
- POWER : up to POEP

Standards

- COMPONENT : IEC 60603-7-4
- SYSTEM ISO 11801 Ed.3 Classe E
EIA/TIA 568-C.2 Cat6
EN 50173-1: 2011 Classe E

Characteristics

DIMENSIONS	21.9 mm x 28.25 mm x 16 mm (H x W x D)
CONTACT	Bronze/platine/nickel + gold plating
PCB	Double layer PCB
IDC	V shape : bronze/platine and copper + SnPb
TERMINATION	Tool less solid and stranded cable to AWG24 to AWG23
SHIELDING	360° shielding
BODY	One part Zamac keystone

Properties

MECHANICAL	Insertion cycle	750 cycles min / 1000 nom.
	Operating voltage	≤ 72 V DC
ELECTRICAL	Test voltage	≥ 1000V DC contact to contact ≥ 1500 V DC contact to ground (IEC 60512-4-1)
	Contact resistance	≤ 20 mΩ IEC 60512-2-1
	Power	≤ 30 W
ENVIRONMENTAL	Coupling attenuation	Compliant to the ISO 11801
	Operating temperature	-40°C to +70°C
	Fire behavior	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
LK6FSTL8	Tool less full shielded CAT6 RJ45 modular jack - Link+ range	Pack of 8
BCDUSTSHx8	Dust shutter for MMC RJ45 jack	Pack of 8

Replace x by the color needed BL: white, B: blue, R: red, J: yellow, V: green

UNSHIELDED CAT6 **BC MODULAR JACK**



+ ADVANTAGES

- Exceed the CAT6 standard performances
- Modular termination : punch down tool or special tool BCTOOLS type
- Compatible with RJ12 plugs
- Dust shutter available in different colors

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s
- POWER : PoEP

Standards

- COMPONENT : IEC 60603-7-4
- SYSTEM : ISO 11801 Ed.3 Classe E
EIA/TIA 568-C.2 Cat6
EN 50173-1: 2011 Classe E

Characteristics

DIMENSIONS	19.30 mm x 33.50 mm x 16 mm (H x W x D)
CONTACT	Bronze/platine/nickel + gold plating
PCB	Double layer optimized PCB
IDC	V shape : bronze/platine & copper + SnPb
TERMINATION	Tool less or punch down solid and stranded cable from AWG24 to AWG23
HOUSING	Unshielded
BODY	ABS

Properties

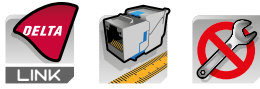
MECHANICAL	Insertion cycle	750 cycles min/1000 nom.	
	ELECTRICAL	Operating voltage	≤ 72V DC
		Test voltage	≥ 1000 V DC contact to contact
		Contact resistance	≤ 20 mΩ IEC 60512-2-1
ENVIRONMENTAL	Power	≤ 30 W	
	Operating temperature	-40°C to +70°C	
	Fire behavior	UL 94V0	

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BC6NB8	Unshielded CAT6 RJ45 modular jack - BC range	Pack of 8
BC6NB	Unshielded CAT6 RJ45 modular jack - BC range	Pack of 50
BCDUSTSHx8	Dust shutter for MMC RJ45 jack	Pack of 8
BCTOOLS	Termination tool for BC connector	Unit

Replace x by the color needed BL: white, B: blue, R: red, J: yellow, V: green

UNSHIELDED CAT6 **LK** MODULAR JACK



+ ADVANTAGES

- CAT6/Class E link certified connector
- Fast and easy tool less termination
- Keystone compact connector : better compatibility with big part of the box

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s
- POWER : PoEP

Standards

- COMPONENT : IEC 60603-7-4
- SYSTEM : ISO 11801 Ed.3 Classe E
EIA/TIA 568-C.2 Cat6
EN 50173-1: 2011 Classe E

Characteristics

DIMENSIONS	21.9 mm x 28.25 mm x 16 mm (H x W x D)
CONTACT	Bronze/platine/nickel + gold plating
PCB	Double layer optimized PCB
IDC	V shape : bronze/platine & copper + SnPb
TERMINATION	Tool less or punch down solid and stranded cable from AWG24 to AWG23
HOUSING	Unshielded
BODY	One part ABS keystone

Properties

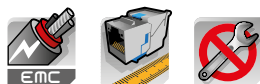
MECHANICAL	Insertion cycle	750 cycles min/1000 nom.
	Operating voltage	≤ 72V DC
ELECTRICAL	Test voltage	≥ 1000 V DC contact to contact
	Contact resistance	≤ 20 mΩ IEC 60512-2-1
	Power	≤ 30 W
ENVIRONMENTAL	Operating temperature	-40°C to +70°C
	Fire behavior	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
LK6NBTL8	Unshielded CAT6 RJ45 modular jack - Link+ range	Pack of 8
BCDUSTSHx8	Dust shutter for MMC RJ45 jack	Pack of 8

Replace x by the color needed BL: white, B: blue, R: red, J: yellow, V: green

UNSHIELDED CAT5E **BC** MODULAR JACK



+ ADVANTAGES

- Exceed the CAT5E standard performances
- Fast and easy tool less termination
- Compact keystone connector
- Dust shutter available in different colors

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s
- POWER : PoE

Standards

- COMPONENT : IEC 60603-7-3
- SYSTEM : ISO 11801 Ed.3 Classe D
EIA/TIA 568-C.2 Cat5e
EN 50173-1: 2011 Classe D

Characteristics

DIMENSIONS	21.9 mm x 28.25 mm x 16 mm (H x W x D)
CONTACT	Bronze/platine/nickel + gold plating
PCB	Double layers optimized PCB
IDC	V shape : bronze/platine and copper + SnPb
TERMINATION	Tool less solid and stranded cable to AWG24 to AWG23
SHIELDING	360° shielding
BODY	One part Zamac keystone

Properties

MECHANICAL	Insertion cycle	750 cycles min/1000 nom.
	Operating voltage	≤ 72V DC
ELECTRICAL	Test voltage	≥ 1000V DC contact to contact ≥ 1500 V DC contact to ground (IEC 60512-4-1)
	Contact resistance	≤ 20mΩ IEC 60512-2-1
	Power	15W
ENVIRONMENTAL	Coupling attenuation	Compliant to the ISO 11801
	Operating temperature	-40°C to +70°C
	Fire behavior	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BC5EFSTL8	Tool less full shielded CAT5E RJ45 modular jack - BC range	Pack of 8
BC5EFSTL50	Tool less full shielded CAT5E RJ45 modular jack - BC range	Pack of 50
BCDUSTSHx8	Dust shutter for MMC RJ45 jack	Pack of 8

Replace x by the color needed BL: white, B: blue, R: red, J: yellow, V: green

UNSHIELDED CAT5E **BC** MODULAR JACK



+ ADVANTAGES

- Exceed the CAT5E standard performances
- Fast and easy tool less termination
- Compact keystone connector
- Compatible with RJ12 plug

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1 Gbit/s
- POWER : PoE

Standards

- COMPONENT : IEC 60603-7-3
- SYSTEM : ISO 11801 Ed.3 Classe D
EIA/TIA 568-C.2 Cat5e
EN 50173-1: 2011 Classe D

Characteristics

DIMENSIONS	19.30 mm x 33.50 mm x 16 mm (H x W x D)
CONTACT	Bronze/platine/nickel + gold plating
COMPENSATION	Double layers optimized PCB
IDC	V shape : bronze/platine and copper + SnPb
TERMINATION	Tool less solid and stranded cable to AWG24 to AWG22
SHIELDING	Unshielded
BODY	ABS

Properties

MECHANICAL	Insertion cycle	750 cycles min/1000 nom.
	Operating voltage	≤ 72V DC
ELECTRICAL	Test voltage	≥ 1000V DC contact to contact ≥ 1500 V DC contact to ground (IEC 60512-4-1)
	Contact resistance	≤ 20mΩ IEC 60512-2-1
	Power	15W
ENVIRONMENTAL	Coupling attenuation	Compliant to the ISO 11801
	Operating temperature	-40°C to +70°C
	Fire behavior	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BC5ENB	Unshielded CAT5E RJ45 modular jack - BC range	Pack of 50
BCDUSTSHx8	Dust shutter for MMC RJ45 jack	Pack of 8
BCTOOLS	Termination tools for BC connecteur	Unit

Replace x by the color needed BL: white, B: blue, R: red, J: yellow, V: green

ACCESSORY **BC MODULAR JACK**



+ ADVANTAGES

- Proprietary connection tool for BC series connectivity
- Equipped with blade to strip the cable
- Scale for the stripping

COPPER CONNECTIVITY

Characteristics

DIMENSIONS	128.5 mm x 58 mm x 23 mm (H x W x D)
FEATURES	Termination tool equipped with blade to strip the cable 6.5 to 7.5 mm
LABELING	Scale for stripping
MATERIAL	Fire retardant thermal plastic

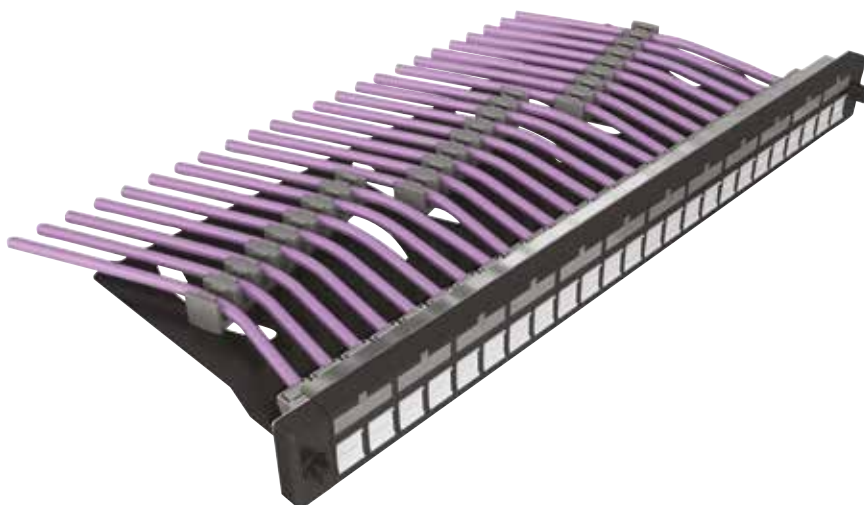
Properties

ENVIRONMENTAL	Operating temperature	-5°C to +45°C
	Fire rating	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BCTOOLS	Termination tool for BC jacks	Unit

UNLOADED PATCH PANEL 24 PORTS - 1U



+ ADVANTAGES

- Screw less patch panel
- Rotative rear cable management bloc
- Attach cable system without cable tie
- Front face equipped with removable colored dust shutter

Characteristics

DIMENSIONS	484 mm x 44 mm x 169.4 mm (H x W x D)
FOOTPRINT	Keystone
HANGING	Screw less system (M6 screw can be added and are provided)
IDENTIFICATION	Front label holder and removable colored dust shutter
CABLES MANAGEMENT	3 rotative rear management blocs

Properties

MECHANICAL	Tensile loaded	> 110 N
ELECTRICAL	Ground contact	Direct grounding
ENVIRONMENTAL	Operating temperature	-10°C to +60°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
MMCPAN1U	19" patch panel 24 ports 1U	Unit
BCDUSTPANx8	Dust shutter for BC panel	Pack of 8

Replace x by the color needed BL: White, B : Blue, R : Red, J : Yellow, V : Green

UNLOADED **BC PATCH PANEL 24 PORTS - 1U**



+ ADVANTAGES

- 19" panel with automatic ground recovery
- Intelligent rear cable support for fixing cables without cable tie
- Keystone format

Characteristics

DIMENSIONS	445 mm x 43.6 mm x 165 mm (H x W x D)
FORMAT	Keystone
FIXING	Central screw to 19" mounting
IDENTIFICATION	Front label holder
CABLES MANAGEMENT	system management without cable ties

Properties

MECHANICAL	Tensile loaded	> 110 N
ELECTRICAL	Ground contact	Automatic mass recovery
ENVIRONMENTAL	Operating temperature	-10°C to +60°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BCPAN1U	19" patch panel 24 ports 1U BC range	Unit
BCPAN2U	19" patch panel 24 ports 2U BC range	Unit
BCOB	Port blank module for keystone panel	Pack of 10

ANGLED PATCH PANEL BC 48 PORTS - 1U



+ ADVANTAGES

- Angled patch panel 48 ports on 1U dedicated for big density (with BCxFSTL or LINK+ connector)
- Equipped with lateral rings to allow a better management of patch cord
- The rear support is studied to allow the fixing of 48 cables
- A label holder allows a clear identification

Characteristics

DIMENSIONS	445 mm x 44 mm x 100 mm (H x W x D)
FORMAT	Keystone
FIXING	2 screws on each side
IDENTIFICATION	Label holder
CABLES MANAGEMENT	Rear support bar with T shape to fix the cable

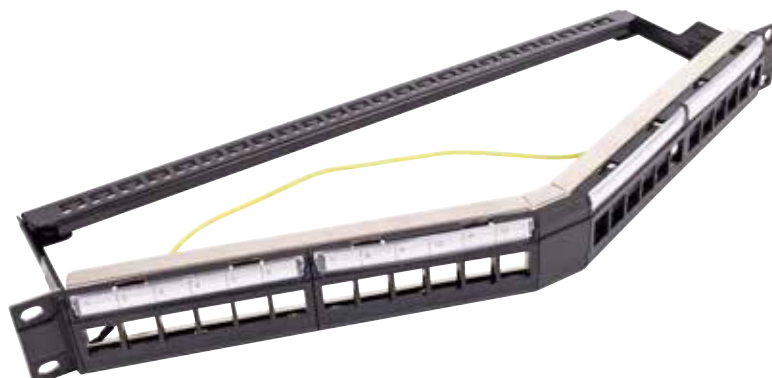
Properties

MECHANICAL	Tensile loaded	> 110 N
ELECTRICAL	Ground contact	Direct grounding
ENVIRONMENTAL	Operating temperature	-10°C to +60°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BCPAN1UV48	Angled patch panel 48 ports on 1U	Unit

ANGLED LK PATCH PANEL 24 PORTS - 1U



+ ADVANTAGES

- Angled patch panel 24 ports : better front management of the cord
- Easy termination : equipped with removable bloc to allow an easy connection
- A label holder allows a clear identification

Characteristics

DIMENSIONS	445 mm x 48.2 mm x 204.4 mm (H x W x D)
FORMAT	Keystone
FIXING	2 screws to 19" mounting
IDENTIFICATION	Front label holder with removable bloc
CABLES MANAGEMENT	Rear bar with T shape

Properties

MECHANICAL	Tensile loaded	> 110 N
ELECTRICAL	Ground contact	Automatic mass recovery and/or yellow/green wire
ENVIRONMENTAL	Operating temperature	-10°C to +60°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
LKPAN1UV	Angled 19" patch panel 24 ports 1U BC range	Unit
BCOB	Port blank module for keystone panel	Pack of 10

LOADED CAT6 PATCH PANEL 24-48 PORTS



+ ADVANTAGES

- UTP CAT6 loaded patch panel 24 or 48 ports
- Equipped with support bar
- 180° punch down type mechanical insertion connection
- Color coding clearly identified: TIA 568 A or 568 B

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 1Gbit/s
- REMOTE POWER : PoE

Standards

- SYSTEM: ISO 11801 Ed.3 Class E
EIA/TIA 568-C.2 Cat6
EN 50173-1: 2011 Class E

Characteristics

DIMENSIONS	482.6 mm x 43.5 mm x 26.8 mm (H x W x D) (without support bar)
CONTACT	Bronze / Nickel + Gold plating
COMPENSATION	2 layers compensation
IDC	110 Dual IDC Phosphor bronze
TERMINATION	180° punchdown solid and stranded wire from AWG24 to AWG22
CABLES MANAGEMENT	Rear support bar equipped with cable manager (with cable ties)

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Operating voltage	≤ 72 V DC
ELECTRICAL	Voltage test	≥ 1000 V DC contact to contact
	Contact resistance	≤ 20 mΩ IEC 60512-2-1
	Power capacity	≤ 30 W
ENVIRONMENTAL	Operating temperature	-10°C to +60°C
	Fire rating	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BC6NBPANSB24	19" loaded CAT6 unshielded patch panel 24 ports 1U with support bar - BC range	Unit
BC6NBPANSB48	19" loaded CAT6 unshielded patch panel 48 ports 2U with support bar - BC range	Unit
MMCMAT	Punch down tool	Unit

VOICE PATCH PANEL **CAT3 50-60 PORTS 1U**



+ ADVANTAGES

- ISDN telephone panel equipped with 50 or 60 UTP CAT3 ports
- PANISDNxxN : 4/5 and 3/6 pairs with punch down termination

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 10 Mbits/s

Standards

- SYSTEM : ISO 11801 Class C
EIA/TIA 568-B.2 Cat3
EN 50173: 2011 Class C

Characteristics

DIMENSIONS	483 mm x 44 mm x 170 mm (H x W x P)
CONTACT	Phosphor Bronze / Nickel + Gold plating
COMPENSATION	Integrated circuit board
IDC	Dual IDC Phosphor bronze
TERMINATION	PANISDNxxN : mechanical punch down solid and stranded cable from AWG24 to AWG22
CABLES MANAGEMENT	PANISDNxxN : Rear cable manager with cables ties

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Operating voltage	< 72 V DC
	Voltage test	> 1000 V DC contact to contact
	Contact resistance	< 20 mΩ IEC 60512-2-1
ELECTRICAL	Power capacity	< 10 W
	Operating temperature	-10°C to +60°C
	Fire rating	UL94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
PANISDN50N	19" voice panel 50 ports 4-5/3-6 - 1U	Unit
PANISDN60N	19" voice panel 60 ports 4-5/3-6 - 1U	Unit
MMCMAT	Dual IDC punch down tool	Unit

PUNCH DOWN TOOL**+ ADVANTAGES**

- Punch down tool for connectors 110, IDC and KRONE
- Allow the termination of voice panel and RJ45 connectors with punch down
- Adjustable with wheel, autcutting with blade

Characteristics

DIMENSIONS	171 mm x 38 mm x 29 mm (H x L x D)
BLADE	Cast iron
TERMINATION	DUAL, IDC : 110 and KRONE

Properties

ENVIRONMENTAL	Operating temperature	-10°C to +60°C
	Fire rating	UL94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
MMCMTAT	Punch down tool for BC series connectors and pre-loaded panel	Unit
MMCLAMEMTAT	Blade for punch down tool	Unit

BC SERIE FACEPLATES **FRENCH STYLE**



+ ADVANTAGES

- French style 45 x 45 mm keystone format
- Removable dust shutter for color identification
- Inclined labelling for a better visibility and protected by a flapping crystal window
- Hang system high density

COPPER CONNECTIVITY

Characteristics

DIMENSIONS	45 mm x 45 mm 1 or 2 ports
FEATURES	Dust shutter flapping
LABELING	Individual and protected label holder
INPUT / OUTPUT	Individual fixing point for cable
MATERIAL	ABS UV resistant white RAL 9003

Properties

ENVIRONMENTAL	Operating temperature	-5°C to +45°C
	Fire rating	UL94V0
	Protection index	IP20

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BC451C8	45 x 45 mm faceplate 1 connector BC range	Pack of 8
BC452C8	45 x 45 mm faceplate 2 connectors BC range	Pack of 8
BCDUSTFPx8	Colored dust flap for BC faceplate	Pack of 8

Replace x by the color needed B : Blue, J : Yellow, V : Green, R : Red

BC SERIE FACEPLATES **UK STYLE**



+ ADVANTAGES

- UK style 86 x 86 mm faceplate
- Integrated dust shutters
- Inclined labelling for a better visibility and protected by a flapping crystals window
- Hang system high density

Characteristics

DIMENSION	86 mm x 86 mm 1 or 2 ports
FEATURES	Dust shutter flapping
LABELING	Individual and protected label holder
INPUT / OUTPUT	Individual fixing point for cable
MATERIAL	ABS UV resistant white RAL 9003

Properties

ENVIRONMENTAL	Operating temperature	-5°C to +45°C
	Fire rating	UL94V0
	Protection index	IP20

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BC861C	86 x 86 mm faceplate 1 connector BC range	Pack of 20
BC862C	86 x 86 mm faceplate 2 connectors BC range	Pack of 20
BC864C	86 x 86 mm faceplate 4 connectors BC range	Pack of 20

SURFACE MOUNTING BOX



+ ADVANTAGES

- Surface mounting box for faceplate format 86 x 86 mm (UK format)
- Depth 35 mm
- Pre cut in order to ensure a good bending radius

COPPER CONNECTIVITY

Characteristics

DIMENSIONS	86 mm x 86 mm
FEATURES	wall mounting of access points
FIXING	2 screws (supplied)
CABLE ENTRY/EXIT	Pre cut entry
MATERIAL	Polycarbonate UV resistant White RAL 9003

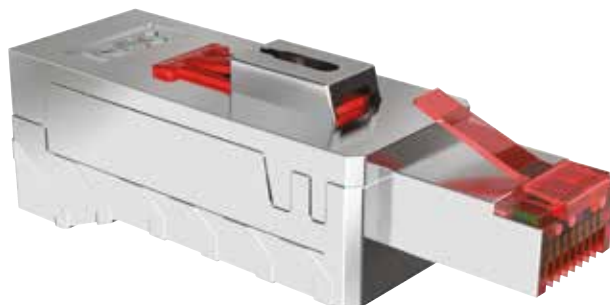
Properties

ENVIRONMENTAL	Operating temperature	-10°C to +60°C
	Fire rating	UL 94V0
	Protection index	IP20

Ordering Information

PART NUMBER	DESCRIPTION	PACKING
WP8686PR9003	86 x 86 mm surface mounting box for faceplate depth 35 mm	Unit
WPF45R9003	Wall plate 45x45 for housing 86x86	Unit

CAT6A SHIELDED **MULTI APPLICATION PLUG**



+ ADVANTAGES

- Tool less RJ45 plug for solid cable up to AWG22
- Direct attach solution : fast and easy termination
- Excellent EMC thanks to a high Zamac shielding quality
- Locking system to ensure a secured connection

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 10 Gbit/s
- POWER : up to 4PPoE

Standards

- SYSTEM : ISO11801 Ed.3 Classe Ea
EIA/TIA 568-C.2 Cat6A
EN 50173: 2011 Classe Ea

Characteristics

DIMENSIONS	21.2 mm x 19 mm x 18.2 mm (H x W x D)
CONTACT	Gold plating 50 µinch
COMPENSATION	Double layer PCB
IDC	V shape : bronze/nickel 8 µm
TERMINATION	Tool less for solid cable from AWG24 to AWG22
SHIELDING	360° shielded
BODY	High quality ZAMAC

Properties

MECHANICAL	Insertion cycle	750 cycles min / 1000 nom.
	Operating voltage	≤ 72 V DC
ELECTRICAL	Operating test	≥ 1000 V DC contact to contact ≥ 1500 V DC contact to ground
	Contact resistance	≤ 20 mΩ IEC 60512-2-1
	Power	≤ 90 W
ENVIRONMENTAL	Operating temperature	-40°C to +70°C
	Fire rating	UL 94V0

Ordering Information

PART NUMBER	DESCRIPTION	PACKING
PL6AFS	Tool less full Shield CAT6A RJ45 plug for solid cable	Unit
PL6AFSKEY	Unlocking key for PL6AFS	Unit

ROTATING CAT6A MULTI APPLICATION PLUGS



+ ADVANTAGES

- Rotative RJ45 plug for solid cables : 135° rotation to allow a very small bending radius
- Tool less RJ45 plug
- Innovative technology with a flexible PCB
- Available in shielded and unshielded version

Applications

- VOICE: Analog, ISDN, VoIP
- DATA : Ethernet up to 10 Gbit/s
- POWER : up to 4PPOE

Standards

- SYSTEM : ISO11801 Ed.3 Classe Ea
EIA/TIA 568-C.2 Cat6A
EN 50173: 2011 Classe Ea

Characteristics

DIMENSIONS	50.50 mm x 13.60 mm x 8 mm (H x W x D)
CONTACT	Gold plating 50 µinch
COMPENSATION	Innovative flexible PCB
IDC	V shape : bronze/nickel 8 µm
TERMINATION	Tool less for solid and stranded cable from AWG26 to AWG22 (insulation max of 1,27 mm)
SHIELDED	PLAG6AFS: shielded PLAG6ANB: unshielded
BODY	flame retardant

Properties

MECHANICAL	Rotation cycle	50 cycles
ELECTRICAL	Operating voltage	≤ 72 V DC
	Test Voltage	≥ 1000 V DC contact to contact ≥ 1500 V DC contact to ground
	Contact resistance	≤ 20 mΩ IEC 60512-2-1
	Power	≤ 60 W
ENVIRONMENTAL	Operating temperature	-40°C to +70°C
	Fire rating	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
PLAG6ANB	Unshielded rotative CAT6A RJ45 plug RJ45	Unit
PLAG6AFS	Shielded rotative CAT6A RJ45 plug RJ45	Unit

SHIELDED CAT6A RJ45 PLUG LINK+



+ ADVANTAGES

- Tool less RJ45 plug for solid cables up to AWG23
- Good EMC thanks to a 360° shielding
- Classe Ea performance
- TIA 568 A & B and industrial color coded

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 10Gbit/s
- POWER : PoE / PoEP

Standards

- SYSTEM : ISO11801 Ed.3 Classe Ea
EIA/TIA 568-C.2 Cat6A
EN 50173: 2011 Classe Ea

Characteristics

DIMENSIONS	13.61 mm x 45.65 mm x 14.1 mm (H x W x D)
CONTACT	Bronze, platine, nickel and gold plating
COMPENSATION	Double layer PCB
IDC	Bronze + platine/copper + SnPb
TERMINATION	Tool less solid cable from AWG26 to AWG23
SHIELDED	360° shielding
BODY	Zamac

Properties

MECHANICAL	Insertion cycle	750 cycles min / 1000 nom.
	Operating voltage	≤ 72 V DC
ELECTRICAL	Test voltage	≥ 1000V DC contact to contact ≥ 1500 V DC contact to ground
	Contact resistance	≤ 20 mΩ IEC 60512-2-1
	Power	≤ 30 W
ENVIRONMENTAL	Operating temperature	-40°C to +70°C
	Fire rating	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
PLST6AFS	Shielded CAT6A RJ45 plug - LINK+ range	Unit

CRIMPING TOOLS



+ ADVANTAGES

- Crimping tool : RJ45 plug RJ45 (8P8C) or RJ12 (6P6C)
- Tool for intensive use with crimping pressure selection
- BW tool : crimping tool for MMCRJ45SC6BW1 plug made for big diameter wire

COPPER CONNECTIVITY

Characteristics

DIMENSIONS	50.5 mm x 13.6 mm x 220 mm (H x W x D)
CRIMPING	8P8C or 6P6C
CONSTRUCTION	Steel
HANDLE	Rubber
HOUSING	Black o xyde

Properties

ENVIRONMENTAL	Operating temperature	-40°C to +70°C
	Fire rating	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
MMCP86MET	RJ45 and RJ12 crimping tools	Unit
MMCP86METBW	RJ45 crimping tools for plug dedicated for big wire	Unit

RJ45 PLUGS & BOOTS



+ ADVANTAGES

- RJ45 plugs high performances : available in shielded and unshielded for wires solid and/or stranded
- Gold plating 50µ inch
- Plugs BW : dedicated for big wire with max insulation diameter 1.5 mm
- Boots for RJ45 plugs : Available in different colors to facilitate the port identification

Characteristics

DIMENSIONS	21.52 mm x 11.8 mm x 8.27 mm (H x W x D)
CONTACT	2 contacts inserters : stranded wire 3 contacts inserters : solid wire
TERMINATION	SI : integrated insert Other : insert not integrated to the plug
MATERIAL	Crystal polycarbonate

Properties

MECHANICAL	Insertion cycle	750 cycles min / 1000 nom.
ENVIRONMENTAL	Operating temperature	-40°C to +70°C
	Fire rating	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
MMCRJ45UC6SI	CAT6 RJ45 unshielded plug for stranded cable with integrated insert	Pack of 100
MMCRJ45SC6SI	CAT6 RJ45 shielded plug for stranded cable with integrated insert	Pack of 100
MMCRJ45SC6A	CAT6A RJ45 shielded plug for stranded cable without integrated insert	Pack of 100
MMCRJ45SC6BW1	CAT6 RJ45 shielded plug for big wire (diameter < 1.5 mm) without integrated insert	Pack of 100
MRJSR6x	Colored boots for RJ45 plug and 6mm cable diameter	Pack of 100
MRJBWx1	Boots for plug big wire (MMCRJ45SC6BW1), cable diameter up to 7,5 mm (back or grey)	Pack of 100

Replace x by the color needed N : black, B : blue, R : red, J : yellow, V : green, G : grey

CATEGORY 6A S/FTP RJ45 LED PATCHCORDS



+ ADVANTAGES

- LED identification to allow an easy and quick maintenance in high density cabinet
- Clearly visible from long distance
- High NEXT margin

Applications

- VOICE: Analog, ISDN, VoIP
- DATA: Ethernet up to 10 Gbits/s
- REMOTE POWER: PoEP

Standards

- COMPONENT: TIA 568-C.2 Cat6A
- SYSTEM: ISO 11801 Ed.3 Class Ea
EIA/TIA 568-C.2 Cat6A
EN 50173-1: 2011 Class Ea

Characteristics

PLUG	RJ45 High performance CAT6A special insert bar on two levels for NEXT compensation
BOOTS	Snagless moulded boots extra flexible
CABLE	Shielded: S/FTP - LSZH
IDENTIFICATION	LED: Red light

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ELECTRICAL	Operating temperature	-20°C to +70°C
	Fire rating	UL94V0 IEC 60332-1

Ordering information

PART NUMBER	DESCRIPTION	PACKING
CORD6AS01LED	CAT6A LED shielded S/FTP patch cord 1 m	Unit
CORD6AS02LED	CAT6A LED shielded S/FTP patch cord 2 m	Unit
CORD6AS03LED	CAT6A LED shielded S/FTP patch cord 3 m	Unit
CORD6AS05LED	CAT6A LED shielded S/FTP patch cord 5 m	Unit
LEDTOOL	LED activation tool	Unit

CATEGORY 6A U/FTP RJ45 PATCHCORDS



+ ADVANTAGES

- 100% component compliant- Individually tested
- High performance : wire termination on two level to improve the NEXT
- Gold plated 50 μ inch

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 10 Gbits/s
- REMOTE POWER : up 4PPoE

Standards

- COMPONENT : TIA 568-C.2 Cat6A
- SYSTEM : ISO 11801 Ed.3 Class Ea
EIA/TIA 568-C.2 Cat6A
EN 50173-1: 2011 Class Ea

Characteristics

PLUG	RJ45 High performance CAT6A special insert bar on two levels for NEXT compensation
BOOTS	Snagless moulded boots extra flexible
CABLE	Shielded : U/FTP - LSZH
IDENTIFICATION	Colored boots for identification performance Cat6A

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ELECTRICAL	Operating temperature	-20°C to +70°C
	Fire rating	UL 94V0 IEC 60332-1

Ordering information

PART NUMBER	DESCRIPTION	PACKING
CORD6AS01MSH	CAT6A shielded U/FTP patch cord 1 m	Unit
CORD6AS02MSH	CAT6A shielded U/FTP patch cord 2 m	Unit
CORD6AS03MSH	CAT6A shielded U/FTP patch cord 3 m	Unit
CORD6AS05MSH	CAT6A shielded U/FTP patch cord 5 m	Unit
CORD6AS10MSH	CAT6A shielded U/FTP patch cord 10 m	Unit

CATEGORY 6A S/FTP RJ45 PATCHCORDS LINK+



+ ADVANTAGES

- Class Ea link compliant
- Gold plated 50 μ inch
- High EMC thanks to a S/FTP shielding
- LSZH jacket and different colors available to allow an identification according to TIA 606A

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 10 Gbits/s
- REMOTE POWER : up PoEP

Standards

- COMPOSANT : TIA 568-C.2 Cat6A
- SYSTEM : ISO 11801 Ed.3 Class Ea
EIA/TIA 568-C.2 Cat6A
EN 50173-1: 2011 Class Ea

Characteristics

PLUG	RJ45 High performance CAT6A special insert bar on two levels for NEXT compensation
BOOTS	Snagless moulded boots extra flexible
CABLE	Shielded : S/FTP - LSZH
IDENTIFICATION	Colored patch cords available

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ELECTRICAL	Operating temperature	-20°C to +70°C
	Fire rating	UL94V0 IEC 60332-1

Ordering information

PART NUMBER	DESCRIPTION	PACKING
CORD6ASF01xMSH	CAT6A S/FTP RJ45 patch cord 1 m LSZH	Unit
CORD6ASF02xMSH	CAT6A S/FTP RJ45 patch cord 2 m LSZH	Unit
CORD6ASF03xMSH	CAT6A S/FTP RJ45 patch cord 3 m LSZH	Unit
CORD6ASF05xMSH	CAT6A S/FTP RJ45 patch cord 5 m LSZH	Unit
CORD6ASF10xMSH	CAT6A S/FTP RJ45 patch cord 10 m LSZH	Unit

Replace x by the color needed : J = yellow or B = blue or R = Red or V = Green

For grey standard color, remove x

CATEGORY 6A U/UTP RJ45 PATCHCORDS



+ ADVANTAGES

- High performance : wire termination on two level to improve the NEXT
- PE cross separator to reduce the crosstalk
- Gold plated 50µ inch

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 10 Gbits/s
- REMOTE POWER : up PoEP

Standards

- COMPONENT : TIA568-C.2 Cat6A
- SYSTEM : ISO 11801 Ed.3 Class Ea
EIA/TIA 568-C.2 Cat6A
EN 50173-1: 2011 Class Ea

Characteristics

PLUG	RJ45 High performance CAT6A special insert bar on two levels for NEXT compensation
BOOTS	Snagless moulded boots extra flexible
CABLE	Unshielded : U/UTP - LSZH
IDENTIFICATION	Colored patch cords available

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ELECTRICAL	Operating temperature	-20°C to +70°C
	Fire rating	UL 94V0 IEC 60332-1

Ordering information

PART NUMBER	DESCRIPTION	PACKING
CORD6AUL01LM SH	CAT6A unshielded U/UTP patch cord 1 m LSZH	Unit
CORD6AUL02M SH	CAT6A unshielded U/UTP patch cord 2 m LSZH	Unit
CORD6AUL03M SH	CAT6A unshielded U/UTP patch cord 3 m LSZH	Unit
CORD6AUL05M SH	CAT6A unshielded U/UTP patch cord 5 m LSZH	Unit

CATEGORY 6A S/FTP RJ45 PATCHCORDS LINK+



+ ADVANTAGES

- Cat6A Link compliant
- Gold plated contacts with low resistivity
- Good price/quality ratio

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up to 10 Gbits/s
- REMOTE POWER : PoEP

Standards

- SYSTEM : ISO 11801 Ed.3 Class EA
EIA/TIA 568-C.2 Cat6A
EN 50173-1 2011 Class EA

Characteristics

PLUG	Cat6A RJ45
BOOTS	Snagless moulded boots extra flexible
CABLE	Shielded : S/FTP - LSZH
IDENTIFICATION	Colored patch cords available

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ELECTRICAL	Operating temperature	-20°C to +70°C
	Fire rating	UL 94V0 IEC 60332-1

Ordering information

PART NUMBER	DESCRIPTION	PACKING
ECORD6ASF005xMSH	CAT6A S/FTP RJ45 patch cord 0,5 m LSZH LINK+ RANGE	Unit
ECORD6ASF01xMSH	CAT6A S/FTP RJ45 patch cord 1 m LSZH LINK+ RANGE	Unit
ECORD6ASF02xMSH	CAT6A S/FTP RJ45 patch cord 2 m LSZH LINK+ RANGE	Unit
ECORD6ASF03xMSH	CAT6A S/FTP RJ45 patch cord 3 m LSZH LINK+ RANGE	Unit
ECORD6ASF05xMSH	CAT6A S/FTP RJ45 patch cord 5 m LSZH LINK+ RANGE	Unit
ECORD6ASF10xMSH	CAT6A S/FTP RJ45 patch cord 10 m LSZH LINK+ RANGE	Unit

Replace x by the color needed : J = yellow or B = blue or R = Red or V = Green

For grey standard color, remove x

CATEGORY 6 **F/UTP RJ45 PATCHCORDS**



+ ADVANTAGES

- Cat6 Link compliant
- Wire termination on two level to improve the NEXT

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 1 Gbit/S
- REMOTE POWER : POEP

Standards

- COMPONENT : TIA568-C.2
- SYSTEM : ISO 11801 Ed.3 Class E
EIA/TIA 568-C.2 Cat6
EN 50173-1 2011 Class E

Characteristics

PLUG	RJ45 High performance CAT6
BOOTS	Snagless moulded boots extra flexible
CABLE	Unshielded : F/UTP - PVC
IDENTIFICATION	Colored patch cords available

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ELECTRICAL	Operating temperature	-20°C to +70°C
	Fire rating	UL 94V0 IEC 60332-1

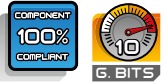
Ordering information

PART NUMBER	DESCRIPTION	PACKING
CORD6F01xM	CAT6 F/UTP RJ45 patch cord 1 m	Unit
CORD6F02xM	CAT6 F/UTP RJ45 patch cord 2 m	Unit
CORD6F03xM	CAT6 F/UTP RJ45 patch cord 3 m	Unit
CORD6F05xM	CAT6 F/UTP RJ45 patch cord 5 m	Unit
CORD6F10xM	CAT6 F/UTP RJ45 patch cord 10 m	Unit

Replace x by the color needed : J = yellow or B = blue or R = Red or V = Green

For grey standard color, remove x

CATEGORY 6 U/UTP RJ45 PATCHCORDS



+ ADVANTAGES

- Exceed Cat6 performance
- 100% component compliant- Individually tested
- Wire termination on two level to improve the NEXT
- LSZH jacket and different colors available to allow an identification according to TIA 606A

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 10 Gbits/s (TR24750 and TSB155)
- REMOTE POWER : PoEP

Standards

- COMPONENT : TIA568-C.2
- SYSTEM : ISO 11801 Ed.3 Class E
EIA/TIA 568-C.2 Cat6
EN 50173-1 2011 Class E

Characteristics

PLUG	RJ45 High performance CAT6
BOOTS	Snagless moulded boots extra flexible
CABLE	Unshielded : U/UTP - LSZH
IDENTIFICATION	Colored patch cords available

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ELECTRICAL	Operating temperature	-20°C to +70°C
	Fire rating	UL 94V0 IEC 60332-1

Ordering information

PART NUMBER	DESCRIPTION	PACKING
VG5041xMSH	CAT6 unshielded U/UTP patch cord 1 m LSZH	Unit
VG5042xMSH	CAT6 unshielded U/UTP patch cord 2 m LSZH	Unit
VG5043xMSH	CAT6 unshielded U/UTP patch cord 3 m LSZH	Unit
VG5045xMSH	CAT6 unshielded U/UTP patch cord 5 m LSZH	Unit

Replace x by the color needed : J = yellow or B = blue
For grey standard color, remove x

CATEGORY 6 U/UTP RJ45 PATCHCORDS



+ ADVANTAGES

- Cat6 link compliant
- Wire termination on two level to improve the NEXT

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 10 Gbits/s (TR24750 and TSB155)
- REMOTE POWER : PoEP

Standards

- COMPONENT : TIA568-C.2
- SYSTEM : ISO 11801 Ed.3 Class E
EIA/TIA 568-C.2 Cat6
EN 50173-1 2011 Class E

Characteristics

PLUG	RJ45 High performance CAT6
BOOTS	Snagless moulded boots extra flexible
CABLE	Unshielded : U/UTP - PVC
IDENTIFICATION	Colored patch cords available

Properties

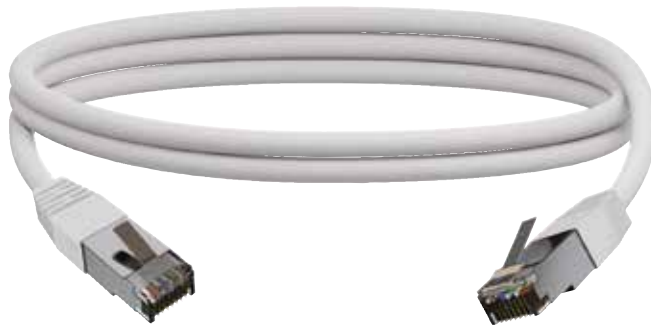
MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ELECTRICAL	Operating temperature	-20°C to +70°C
	Fire rating	UL 94V0 IEC 60332-1

Ordering information

PART NUMBER	DESCRIPTION	PACKING
CORD6U01xM	CAT6 U/UTP RJ45 patch cord 1 m - LINK+ range	Unit
CORD6U02xM	CAT6 U/UTP RJ45 patch cord 2 m - LINK+ range	Unit
CORD6U03xM	CAT6 U/UTP RJ45 patch cord 3 m - LINK+ range	Unit
CORD6U05xM	CAT6 U/UTP RJ45 patch cord 5 m - LINK+ range	Unit

Replace x by the color needed : J = yellow or B = blue
For grey standard color, remove x

CATEGORY 6 **F/UTP RJ45 PATCHCORDS LINK+**



+ ADVANTAGES

- Cat6 Standards compliant
- Gold plated contacts with low resistivity
- Good quality/price ratio

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 1 Gbit/s
- REMOTE POWER : PoE

Standards

- SYSTEM : ISO 11801 Ed.3 Class E
- EIA/TIA 568-C.2 Cat6
- EN 50173-1 2011 Class E

Characteristics

PLUG	RJ45 Cat6
BOOTS	Snagless moulded boots extra flexible
CABLE	Shielded : F/UTP - PVC

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ELECTRICAL	Operating temperature	-20°C to +70°C
	Fire rating	UL 94V0 IEC 60332-1

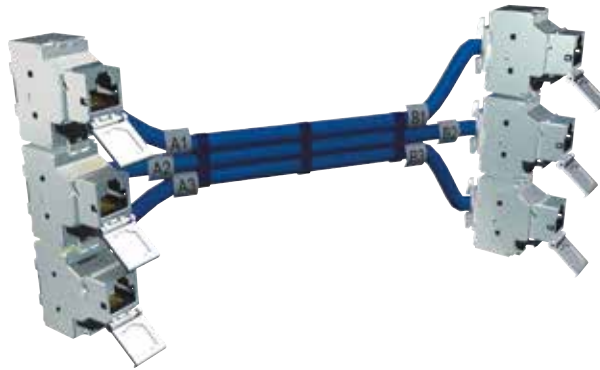
Ordering information

PART NUMBER	DESCRIPTION	PACKING
ECORD6F005M	CAT6 F/UTP RJ45 patch cord 0,05 m PVC - Grey LINK+ RANGE	Unit
ECORD6F01M	CAT6 F/UTP RJ45 patch cord 1 m PVC - Grey LINK+ RANGE	Unit
ECORD6F02M	CAT6 F/UTP RJ45 patch cord 2 m PVC - Grey LINK+ RANGE	Unit
ECORD6F03M	CAT6 F/UTP RJ45 patch cord 3 m PVC - Grey LINK+ RANGE	Unit
ECORD6F05M	CAT6 F/UTP RJ45 patch cord 5 m PVC - Grey LINK+ RANGE	Unit

COPPER PATCHCORDS & LINKS

RJ45 PRE-TERMINATED TRUNK

ON REQUEST



+ ADVANTAGES

- Pre-terminated link to optimize the installation time
- Pre-terminated link on request : length, category, shielding
- Each link are tested (test included)
- Different solutions of cable assemblies are available

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet
- REMOTE POWER : up 4PPoE depending on type of connection

Standards

- SYSTEM : ISO 11801 Ed.3
EIA/TIA 568-C.2
EN 50173-1

Characteristics

RJ45 JACKS	PRJ45 jacks high performance : BCTL or LK
CABLE	Stranded or solid core cable Shielded or unshielded solution
ASSEMBLY	Jacketed cables / Velcro ties / Plastic ties / Polyamid braid
TEST	Each link are tested following ISO or TIA standard
IDENTIFICATION	Colored dust shutter and labelling of each link

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ENVIRONNEMENTAL	Operating temperature	-20°C to +70°C
	Fire rating	IEC 60332-1

CONSOLIDATION **COPPER LINK**

ON REQUEST



+ ADVANTAGES

- Consolidation link offers the solution in case of open space office and gives a modularity on the structured cabling
- Consolidation point can be easily installed on double ceiling or double floor
- Saving time solution : preterminated and tested following ISO and/or TIA standard

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet
- REMOTE POWER : Up 4PPoE depending on type of connection

Standards

- SYSTEM : ISO 11801 Ed.3
EIA/TIA 568-C.2
EN 50173-1

Characteristics

RJ45 JACKS	RJ45 jacks high performance : BCTL or LK
CABLE	Stranded or solid core cable Shielded or unshielded solution
ASSEMBLY	Jacketed cables / Velcro ties / Plastic ties / Polyamid braid
TEST	Each link are tested following ISO or TIA standard
IDENTIFICATION	Colored dust shutter and labelling of each link

Properties

MECHANICAL	Mating cycles	750 cycles min / 1000 nom
	Bending radius	8 x outer diameter
ENVIRONNEMENTAL	Operating temperature	-20°C to +70°C
	Fire rating	IEC 60332-1

WATERPROOF JUNCTION BOX



+ ADVANTAGES

- Waterproof junction box to protect outside termination : IP54 rated
- Allows all types of connections : copper RJ45, fiber optic, coaxial BNC etc
- Easy installation : can be fixed to the wall
- Adaptable silicone housing regardless of the diameter of the cable

Applications

- COPPER : RJ45 plug or RJ45 connector
- Fiber optic : All types of connectivity : SC or LC
- Coaxial : BNC connectivity

Characteristics

DIMENSION	32.3 x 142.1 x 37.58 (H x W x D)
BODY	Thermal plastic high resistance
HOUSING	Silicone
CABLE DIAMETER	Cable diameter from 5 to 8mm

Properties

ENVIRONMENTAL	IP Rated	IP54
	UV protection	UL 746C
	Operating temperature	-10°C to +60°C
	Fire rating	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
COUPLMMCIP54	Waterproof junction box for copper or fiber optic connection	Unit

CATEGORY 6A RJ45 SHIELDED COUPLER



+ ADVANTAGES

- CAT6A RJ45 Coupler female/female for cross connect or consolidation point
- Shielded coupler with high EMC
- Ensure a Class Ea performance of the link
- Direct connection without tool

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 10 Gbits/s
- REMOTE POWER : PoEP

Standards

- COMPONENT : IEC 60603-7
- SYSTEM : ISO 11801 ED3 Class Ea
EIA/TIA 568-C.2 Cat6A
EN 50173-1: 2011 Class Ea

Characteristics

DIMENSIONS	16.4 mm x 30 mm x 20.3 mm (L x W x H)
CONTACT	Gold plated contact
COMPENSATION	Double Layer integrated PCB + Lead frame
HOUSING	Zamac

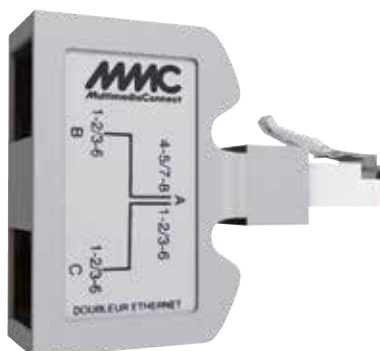
Properties

MECHANICAL	Insertion cycles	750 cycles min
	Current rating	1.5 A
ELECTRICAL	Insulation resistance	500 mΩ
	Contact resistance	20 mΩ
	Power capacity	≥ 30 W
ENVIRONMENTAL	Operating temperature	-40°C to +70°C
	Fire rating	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
COUPLK6AFS	CAT6A fully shielded 360° RJ45 coupler female/female	Unit

CAT5 & 3 (4-5/7-8) SPLITTERS



+ ADVANTAGES

- Splitter for Ethernet application
- Allow the connection of two work station in only one socket
- Available for shielded or unshielded link
- Available in CAT5 (pairs 1/2 and 3/6) and CAT3 (pairs 4/5 and 7/8)

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 100 Mbits/s (Cat5) or 10 Mbits/s (Cat3)

Standards

- SYSTEM : ISO 11801
TIA 568-C.2 Cat5 / Cat3

Characteristics

DIMENSIONS	20 mm x 38 mm x 43 mm (L x P x H)
CONTACT	Gold plated contact
COMPENSATION	PCB
HOUSING	Polycarbonate

Properties

MECHANICAL	Insertion cycles	750 nom
	Operating voltage	≥ 72 V D.C
ELECTRICAL	Contact resistance	20 mΩ
	Power capacity	15 W
ENVIRONMENTAL	Operating temperature	-10°C to +40°C
	Fire rating	UL 94 V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
DEFF	Ethernet 1/2 - 3/6 pairs splitter 2 female input and 1 male output for fixe application	Unit
DEFM	Ethernet 1/2 - 3/6 pairs splitter 2 female input and 1 female output for mobile application	Unit
DTUF	Ethernet 4/5 - 7/8 pairs splitter 2 female input and 1 female output for fix application	Unit

GALVANIC ISOLATOR



+ ADVANTAGES

- Plug and play devices to create isolation between networks equipments
- Compliant with EN 60601 medical electrical equipment safety standard
- Equipped with identification icons

Applications

- VOICE : Analog, ISDN, VoIP
- DATA : Ethernet up 1 Gbit/s

Standards

- SYSTEM : ISO 11801
TIA 568-C.2
EN 50173-1
EN 60601

Characteristics

DIMENSIONS	49.90 mm x 64.90 mm x 29.40 mm (L x P x H)
WEIGHT	58g
COMPENSATION	PCB
SHIELD	Full shielded
HOUSING	ABS

Properties

ELECTRICAL	Voltage withstand	4 KV
	Voltage test	4000 Vrms
	Return Loss of isolation component	< -6 dB @ 100 MHz
	Transmission length	90 m
ENVIRONMENTAL	Operating temperature	0°C to +60°C
	Fire rating	UL 94V0

Ordering information

PART NUMBER	DESCRIPTION	PACKING
ISOGALVRJ45	Network galvanic isolator	Unit

12 PORTS METAL CONSOLIDATION BOX



+ ADVANTAGES

- 12 ports metal consolidation box to offer a modularity of cabling system
- Management rings on the front face for lateral exit of RJ45 links
- Removable fixing brackets for installation on a cable tray or floor installation

Characteristics

DIMENSIONS	337 mm x 278 mm x 41.5 mm (L x P x H)
PORT NUMBER	Keystone 12 ports RJ45
FIXING	Fixing of the technical floor or cable tray using adjustable brackets
MATERIAL	Steel thickness 18/10

Properties

ENVIRONMENTAL	Operating temperature	0°C to +60°C
	Protection index	IP20

Ordering information

PART NUMBER	DESCRIPTION	PACKING
BCBOXFS12	12 ports metal consolidation box	Unit

DIN RAIL SUPPORTS



+ ADVANTAGES

- RJ45 support for DIN RAIL
- Keystone design
- Design studied to allow a good management of the bending radius

Characteristics

DIMENSIONS	Support 1 connector : 18 mm x 40.2 mm x 51.2 mm (L x P x H)
MATERIAL	Stainless steel 1,5 mm

Ordering information

PART NUMBER	DESCRIPTION	PACKING
SUPRJ45DIN	DIN RAIL support for 1 RJ45 connector	Unit

LOCKING SYSTEM **RJ45 PORT**



+ ADVANTAGES

- Allows the unused RJ45 ports to be locked in order to secure the network against not desired connection/disconnection
- Security of patch panel or faceplate
- Unlocked with a key
- Can be adapted on all RJ45 jack

Characteristics

DIMENSIONS	11.6 mm x 10.5 mm x 9.94 mm (L x P x H)
MATERIAL	Polycarbonate
COLOR AVAILABLE	Red

Ordering information

PART NUMBER	DESCRIPTION	PACKING
LOCKRJ45R	Red RJ45 port blocker	Pack of 10 + 1 locking key

OPTICAL OUTER SHEATH CABLE : ENVIRONMENT

Material behavior

	PVC	LSZH	POLYETHYLENE PE	W PUR	RUBBER (NBR)	POLYAMIDE PA
LINK	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor	Indoor	Outdoor
HEAT	+70°C	+70°C	+70°C	+80°C	+60°C	+115°C
COLD	-30°C	-25°C	-50°C	-40°C	-25°C	-40°C
WATER	●	●	●	●	●	●
FLAME	●	●	●	●	●	●
SMOKE	Toxic	Low	-	Low	Toxic	Toxic
OIL	●	●	●	●	●	●
ACID	●	●	●	●	●	●
UV	●	●	●	●	●	●

Material resistance

	POLYCHLORURE DE VINYLE (PVC)	LSZH POLYOLÉFINE (LSZH)	POLYÉTHYLÈNE (PE)	POLYURÉTHANE (PUR)	RUBBER (NBR)	POLYAMIDE (PA)
SOLIDITY	●	●	●	●	●	●
RODENT	●	●	●	●	●	●
CRUSH	●	●	●	●	●	●
TORSION	●	●	●	●	●	●
BENDING	●	●	●	●	●	●
PULLING	●	●	●	●	●	●
TEAR	●	●	●	●	●	●

● Suitable ● Adapted ● Not adapted

OPTICAL CABLES

FIBER SELECTION PER APPLICATION

The optical links are used in several configurations : indoor, outdoor or both. The installation method used will determine the protection level and the direct environment will dictate the jacket choice and the fire rating.



INDOOR		LAN BUILDING OFFICE		SAN DATA CENTER
INDOOR OUTDOOR		LAN PARKING OR WAREHOUSE		LAN PRODUCTION UNIT
OUTDOOR		LAN CAN CAMPUS LINK		MAN WAN TELECOM NETWORK



SELECT THE SUITABLE CABLE

PART NUMBER	NETWORK	APPLICATIONS	INSTALLATION TYPE	MAIN BENEFITS	CPR
BIFIBEROHALx	LAN	Patchcord	Indoor/backbone	Traction	Fca
BIFIBERSx	LAN	Patchcord	Indoor/backbone	Outer jacket	Fca
BIFIBERSRx	LAN	Patchcord	Indoor/backbone	Ideal for LC uniboot	Dca
BIFIBERA	LAN	Patchcord	Indoor/backbone	Crush	Dca
MMCDCARP1CZ	FTTH	Suscriber	Distribution	Robustness	Fca - Eca
MMCDCARP2CZ	FTTH	Suscriber	Distribution	Robustness	Fca - Eca
MMCDCARP4CZ	FTTH	Suscriber	Distribution	Robustness	Fca - Eca
DCXC	FTTH	Suscriber	Distribution	Traction	Fca
RCOxxxAAMSSyzzzS	FTTH	Backbone	Link to roof	Micro module	Eca
RCOxxxAAMSSyzzzD	FTTH	Backbone	Link to roof	Micro module	Dca
RCRxxxAAMSSyzzzS	FTTH	Backbone	Link to roof	Micro module	Eca
RCRxxxAAMSSyzzzD	FTTH	Backbone	Link to roof	Micro module	Dca
MULTIxxRyyy	Building	Backbone	Switches	Traction	Cca
MULTIxxRMCyyy	Building	Backbone	Switches	Traction / capacity	Cca
MULTIxxIEyyy z	Building	Distribution	Between racks	Size / termination	Cca
MULTIxxIEMCyyy z	Building	Distribution / infra	Between racks	Space / capacity	Cca
INTEXxyyyz	Building	Inter-building	Under sheath	Multifunctions	Eca-Cca
INTEMTFRxyyy	CAN	Inter-building	Sheath	Multifunctions	Eca
EXTALCTxxSHC1	CAN	Inter-building	Buried	Armed / fire resistant C1	Eca
EXTALMTxxSHC1	CAN	Inter-building	Buried	Armed / fire resistant C1	Eca
EXTALCTxxC1P	CAN	Nuclear	Buried	Armed / fire resistant C1 EDF	Eca
EXTALMTxxC1P	CAN	Nuclear	Buried	Armed / fire resistant C1 EDF	Eca
EXTALCTDSxxSH	CAN	Buried	Buried	Double sheath / reinforced / LSZH	Eca
EXTCTxyyy	CAN	Inter-building	Ground / Air	Dielectric	Fca
EXTCTDSxyyy	CAN	Inter-building	Ground / Air	Double sheath / Dielectric	Fca
EXTMTxyyy	CAN	Inter-building	Ground / Air	Dielectric / capacity	Fca
EXTMTDS xxx yyy	CAN	Inter-building	Ground / Air	Capacitance / dielectric	Fca
ADSSDS120 xx yyy	Telecom	Inter-pillars	Air	Bad weather	Fca
FOLIVE xx yyy	Tactic	Hostile environment	Mobiles	Robustness / suppleness / watertightness	Fca
EXTALCTxyyy	CAN	Inter-building	Buried	Rodents	Fca
EXTALCTxxRyyy	CAN	Inter-building	Buried	Rodents	Fca
EXTALCTDSxyyy	CAN	Inter-building	Buried	Rodents / double sheath	Fca
EXTALMT xxx yyy	CAN	Inter-building	Buried	Rodents / capacity	Fca
EXTALMTDS xxx yyy	CAN	Inter-building	Buried	Rodents	Fca
FOFIRE xx yyy	CAN	Inter-building	Buried	Crush	Eca
FOFIREMT xx yyy	CAN	Inter-building	Buried	Crush / capacity	Eca

APPLICATIONS AND LENGTH

APPLICATION	WAVE LENGTH nm	MAXIMAL LENGHT PER APPLICATION							
		OM3	FIBER NUMBER	OM4	FIBER NUMBER	OM5	FIBER NUMBER	OS2	NUMBER FIBER
10G BASE SX	850	300 m	LC 2co	550 m	LC 2co	550 m	LC 2co	-	-
10G BASE LW	1300 / 1310	220 m	LC 2co	220 m	LC 2co	220 m	LC 2co	10 000 m	-
10G BASE LX4	1300 / 1310	300 m	LC 2co	300 m	LC 2co	-	-	10 000 m	LC 2co
40G SR4	850	100 m	MTP 8co	125 m	MTP 8co	150 m	MTP 8co	-	-
40G BASE LR4	1310	-	-	-	-	-	-	10 000 m	MTP 8co
40G SWDM4	850-950	240 m	-	350 m	-	440 m	LC 2co	-	-
100G SR4	850	100 m	MTP 8co	125 m	MTP 8co	125 m	MTP 8co	-	-
100G BASE LR4	1310	-	-	-	-	-	-	10 000 m	MTP 8co
100G SWDM4	850-950	75 m	MTP 8co	100 m	MTP 8co	150 m	LC 2co	10 000 m	LC 2co

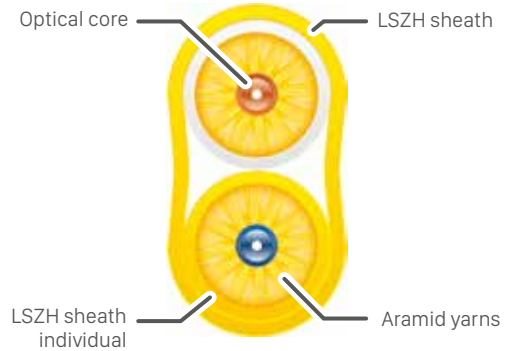
ATTENUATIONS AND BANDWIDTHS

FIBER TYPE	OM3	OM4	OM5	OS2
LIGHT SOURCE	VCSEL	VCSEL	SWDM (MUX/DEMUX)	LASER
	50/125	50/125	50/125	9/125
STRUCTURE				
BANDWIDTH 850 nm	1500 MHz/km 2000 MHz/km (VCSEL source)	3500 MHz/km 4700 MHz/km (VLSSEL source)	3500 MHz/km 4700 MHz/km (VCSEL source)	-
BANDWIDTH 953 nm	-	-	1850-2470 MHz/km	-
BANDWIDTH 1300 nm	500 MHz/km	500 MHz/km	500 MHz/km	-
ATTENUATION AT 850 nm	2.5 dB/km	2.5 dB/km	2.5 dB/km	-
ATTENUATION AT 953 nm)	-	-	1.8 dB/km	-
ATTENUATION AT 1300 nm	0.8 dB/km	0.8 dB/km	0.8 dB/km	-
ATTENUATION AT 1310 nm	-	-	-	0,35 dB/km
ATTENUATION AT 1550 nm	-	-	-	0,22 dB/km

ZIPCORD OR ROUND DUPLEX PATCH CABLES



ON REQUEST



+ ADVANTAGES

- 4 cables structures available with LSZH jacket
 - Zipcord (BIFiber0HAL)
 - Flat duplex (BIFibers)
 - Round duplex (BIFibersR)
 - Armored duplex (BIFiberA)

Applications

- DATA : Ethernet up to 100 Gbits/s
- For fiber optic patchcords
- Direct termination, pigtailed and patchcords
- Connections between two floors or between two cabinets

Standards

- OPTICAL FIBER :
 - Multimode : IEC 60793-2-10 : A1a.2 (OM3)
A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode : IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA & 900 µm colored thermoplastic (following IEC 304)
ASSEMBLY	BIFiber0HAL : 2 zipcord fibers 2.8 mm BIFibers : 2 zipcord fibers in a 3rd sheath BIFibersR : 2 fibers in a round sheath BIFiberA : 2 armored zipcord fibers
PROTECTION	Reinforced with aramid yarns and/or steel armor
OUTER SHEATH	LSZH, color according to the table below

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load (Permanent)	BIFiber0HAL : 400N BIFibers : 500N BIFibersR : 250N BIFBREA : 500N
	Crush resistance	BIFiber0HAL : 1 000N BIFibers : 1 500N BIFibersR : 500N BIFiberA : 3 000N
	Rodent index	Light (Zip, Flat, round) medium/high (Armored))
	CPR level	Fca Dca s2, d2, a2

Ordering information

PART NUMBER	FIBERS	SHEATH				CPR LEVEL	OUTER DIAMETER (mm)	PACKING (m)
		OM3	OM4	OM5	OS2			
BIFIBEROHALx	Zipcord duplex	Aqua	Aqua	Lime	Yellow	Fca	2.8 x 5.9	T4000
BIFIBERSx	Flat duplex cable	Aqua	Aqua	Lime	Yellow	Fca	3.8 x 7.0	T4000
BIFIBERSRx	Round duplex	Aqua	Purple	Lime	Yellow	Dca s2, d2, a2	3.0	T4000
BIFIBERA	Army zipcord	Aqua	Purple	-	Yellow	Dca s2, d2, a2	2.8 x 5.6	T4000

Replace x by : OM3, OM4, OM5, OS2, 7A1 (for G657A1), 7A2 (for G657A2), 655 (for G655)
Color of sheath : Aqua RAL 6027, OM4 Purple RAL 4003, OM5 Lime green Pantone381C, OS2 Yellow RAL 1021

ZIPCORD DROP CABLES



ON REQUEST



+ ADVANTAGES

- Low radius curvature and low friction
- Suitable for FTTx applications
- Flame retardant

Applications

- Indoor applications in the FTTx network

Standards

- OPTICAL FIBER : Singlemode : IEC 60793-2-50 B6.a (G657A2)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EN 50173, EIA/TIA 568-C.3

Characteristics

CORE	G657 A2: 9 μm / 125 μm
COATING	250 μm PMMA colored (Following IEC 304) thermoplastic)
ASSEMBLY	Central position
PROTECTION	2 aramid reinforced plastic strength members
OUTER SHEATH	LSZH light grey

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load (Permanent)	100 N/50 N
	Crush resistance	500 N
	Rodent index	Light
ENVIRONMENTAL	Operating temperature	-30°C to +60° C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1 F5
	CPR level	Fca Eca

Ordering information

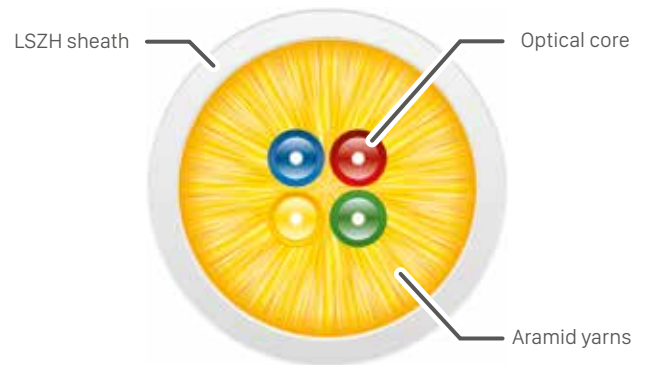
PART NUMBER	FIBERS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)	PACKING (m)
MMCDCARP1Cz	1 x G657A2	LSZH	Fca - Eca	2.0 x 3.1	T4000
MMCDCARP2Cz	2 x G657A2	LSZH	Fca - Eca	2.0 x 3.1	T4000
MMCDCARP4Cz	4 x G657A2	LSZH	Fca - Eca	2.0 x 3.1	T4000

By default the cables are Fca for Eca replace z by E

ROUND DROP CABLES



ON REQUEST



+ ADVANTAGES

- Good mechanical resistance
- Suitable for FTtx applications
- Two cables available :
 - 1 core cable
 - 4 cores cable

Applications

- Indoor applications in the FTtx network DC1C and DC4C

Standards

- OPTICAL FIBER : Singlemode : IEC 60793-2-50 B6.a (G657A2)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EN 50173, EIA/TIA 568-C.3

Characteristics

CORE	G657 A2: 9 µm / 125 µm
COATING	250 µm PMMA & 900 µm colored (Following IEC 304) thermoplastic)
ASSEMBLY	1 or 4 cores reinforced with aramid yarns assembled into a round LSZH sheath
PROTECTION	Reinforced with aramid yarns
OUTER SHEATH	White LSZH RAL 9003

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load (Permanent)s	200 N
	Crush resistance	500 N
	Rodent index	Light
ENVIRONMENTAL	Operating temperature	-20°C to +60° C
	Fire rating	IEC 60332-1-2
	Smoke emission	IEC 60754-1 F5
	CPR Level	Fca

Ordering information

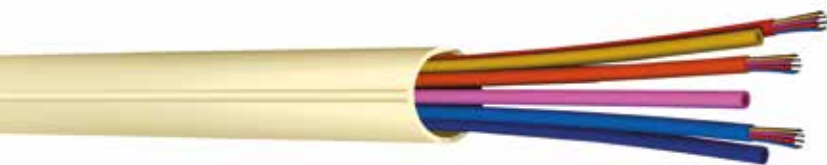
PART NUMBER	FIBERS	SHEATH	OUTER DIAMETER (mm)	PACKING (m)
DCyC	1 ou 4 x G657A2	LSZH	4.0	T1000

Replace y by total number of fibers : 1 or 4

6 TO 288 RISER OVAL CABLE



ON REQUEST



+ ADVANTAGES

- From 6 to 288 fibers, a with multiple modularities, from 2 to 12 fibers per micro-sheath
- Easy installation : micro sheaths are easy to unstrip
- Oval shape for easier of installation

Applications

- FTTh applications, vertical cabling
- Allows to collect fiber strings per floor

Standards

- OPTICAL FIBER : Singlemode IEC 60793-2-50 B6.a (G657A2)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EN 50173, EIA/TIA 568-C.33

Characteristics

CORE	G657 A2: 9 µm / 125 µm
COATING	250 µm PMMA colored thermoplastic
ASSEMBLY	Fiber core inside a soft micro tube «easy strip» Up to 12 cores inside each soft tube.
PROTECTION	Jelly or dry, 2 FRP inside the sheath
OUTER SHEATH	Ivory LSZH RAL 1015 or white RAL 9016 Black PE RAL 9005

Properties

MECHANICAL	Bending radius	25 x Ø
	Tensile load (Permanent)	710 N
	Crush resistance	1000 N
	Rodent index	Light
ENVIRONMENTAL	Operating temperature	-40°C to +70° C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1 F5
	CPR Level	Eca Dca s2, d2, a2 Fca

Ordering information

PART NUMBER	FIBERS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)	PACKING (m)
RCOxxxaaMssyzzzS	xxx FO zzz INT RISER	Ivory LSZH	Eca	8.5 à 17.8	T4000
RCOxxxaaMssyzzzD	xxx FO zzz INT RISER	White LSZH	Dca s2, d2, a2	8.5 à 17.8	T4000
RCOxxxaaMssyzzzP	xxx FO zzz INT RISER	Black PE	Fca	8.5 à 17.8	T4000

Replace xxx by total number of fibers
 Replace aa by number of soft micro tube
 Replace a by D for Dry or G for jelly filled
 Replace ss by number of fibers inside soft micro tube
 Replace zzz by type of fiber (example 7A2)

6 TO 288 FO ROUND BACKBONE CABLE



ON REQUEST



+ ADVANTAGES

- From 6 to 288 fibers
- The micro sheaths are easy to unstrip with gel or not
- Round shape for more flexibility and easy pulling
- Easy termination thanks to smart stripping

Applications

- FTTh applications, vertical cabling I

Standards

- OPTICAL FIBER: Singlemode: IEC 60793-2-50 B6.a (G657A2)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EN 50173, EIA/TIA 568-C.3

Characteristics

CORE	G657 A2: 9 μm / 125 μm
COATING	Colored thermoplastic PMMA 250 μm
ASSEMBLY	Fiber core inside a soft micro tube «easy strip» Up to 12 cores inside each soft tube.
PROTECTION	Jelly or dry, 2 FRP inside the sheath
OUTER SHEATH	Ivory RAL 1015 or white RAL 9016 LSZH

Properties

MECHANICAL	Bending radius	25 x Ø
	Tensile load (Permanent)	710 N
	Crush resistance	1000 N
	Rodent index	Light
ENVIRONMENTAL	Operating temperature	-40°C to +70° C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1 F5
	CPR Level	Eca Dca s2, d2, a2 Fca

Ordering information

PART NUMBER	FIBERS	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)	PACKING (m)
RCRxxxaaMssyzzzS	xxx FO zzz INT RISER	Ivory LSZH	Eca	8.5 to 17.8	T4000
RCRxxxaaMssyzzzD	xxx FO zzz INT RISER	White LSZH	Dca s2, d2, a2	8.5 to 17.8	T4000

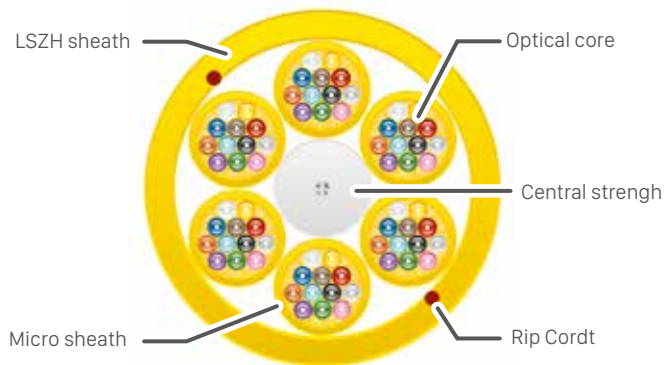
Replace xxx by the number of fibers
 Replace aa by the number of micro-sheath
 Replace y by D for Dry or G for jelly filled
 Replace ss by the number of fibers in the micro sheath
 Replace zz by the type of fiber (example 7A2)

OPTICAL CABLES

MULTI MICRO BREAK OUT CABLE ASSEMBLY



ON REQUEST



+ ADVANTAGES

- Cable designed for the MTP or LC link organization in high-density cabinet
- Easy installation : assembly of several micro Break out 250 μm cables to be pulled at the same time
- Up to 50% space saving compared to 900 μm mini break-out cables

Applications

- DATA : Ethernet up to 400 Gbits/s
- Ideal for backbone cabling or in cable bundles
- For Networks Data center (SAN)
- Indoor connection

Standards

- OPTICAL FIBER :
Multimode : IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
Singlemode: IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE: IEC 60794
- OPTICAL SYSTEM : ISO 11801 - EIA/TIA 568-C.3 - EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 μm / 125 μm OS2/G657A2: 9 μm / 125 μm
COATING	PMMA 250 μm colored thermoplastic (Following IEC 304)
ASSEMBLY	2,4, 6, 8 or 12 cables assembled under sheath LSZH
PROTECTION	Aramid yarns in each distribution cable
OUTER SHEATH	LSZH colored as per below table

Properties

MECHANICAL	Bending radius	15 x Ø
	Tensile load (Permanent)	1 400N
	Crush resistance	1 400N
ENVIRONMENTAL	Operating temperature	-10°C to +60° C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1 F5
	Niveau CPR	Dca s2, d2, a2

Ordering information

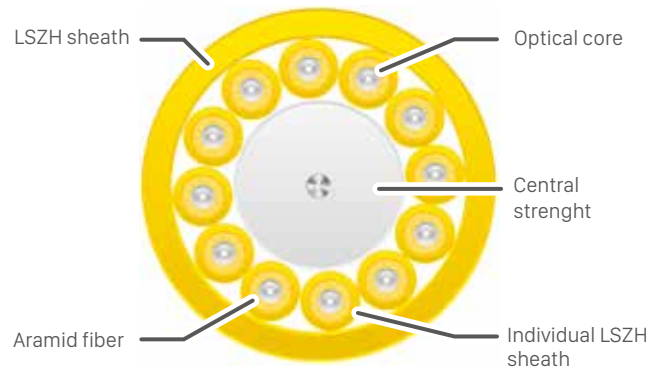
PART NUMBER	FIBERS	SHEATH					OUTER DIAMETER (mm)					PACKING (m)	
		OM3	OM4	OM4A	OM5	OS2	G657A2	24 FO	48 FO	72 FO	96 FO		144 FO
MICROMCSHXYYY	xx FO yyy	Aqua	Purple	Aqua	Lime	Yellow	Yellow	10	10	11.9	13.9	17.9	T4000

Replace xx by the number of fibers

Replace YYY by the type of fiber OM3, OM4, OM4A, OM5, OS2, 7A2 (G657A2)

Colored sheath: OM3/OM4A aqua RAL 6027, OM4 Purple RAL 4003, OM5 Pantone lime green 381C, OS2/G657A2 jaune RAL 1021

2.5 MM BREAK OUT CABLE



+ ADVANTAGES

- Best in class pulling resistance
- Individually protected with aramid yarns
- Flame retardant

Applications

- DATA : Ethernet up to 400G
- Ideal for backbone cabling
- Indoor connections between bays or floors
- Installation in trunkings or cable ducts

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5: 50 µm / 125 µm OS2 : G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA & 900 µm colored (Following IEC 304) thermoplastic
ASSEMBLY	900 µm fibers Individual sheaths 2.5 mm LSZH around a central element
PROTECTION	Reinforced with aramid yarns
OUTER SHEATH	LSZH, colored as per below table RAL 6027, RAL 1021 RAL 4003

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load (Permanent)	1000 N(2fo)-1350 N (4fo) 2050 N (6fo)-2700 N (8fo) 3500 N (12-16fo)
	Crush resistance	2 000N
	Rodent index	Light
ENVIRONMENTAL	Operating	-20°C to +50° C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1 F5
	CPR Level	Dca s2, d2, a2

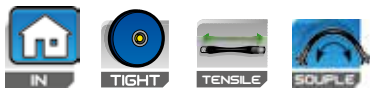
Ordering information

PART NUMBER	FIBER	SHEATH						OUTER DIAMETER (mm)			PACKING (m)
		OM3	OM4	OM4A	OM5	OS2	G657A2	6 FO	12 FO	16 FO	
MULTIxxRyyy	xx FO yyy	Aqua	Purple	Aqua	Lime	Yellow	Yellow	9.6	15	14.8	T4000

Replace xx by the number of fibers from 6 to 16
 Replace yyy by the types of fibers : OM3, OM4, OM5, OS2, 7A2 (G657A2)

OPTICAL CABLES

2.5 MM BREAK OUT CABLE ASSEMBLY



ON REQUEST



+ ADVANTAGES

- Assembly of several cables MULTIxxRyyy
- From 24 FO to 48 FO
- Individually protected with aramid yarns
- Flame retardant

Applications

- DATA : Ethernet up to 400G
- Ideal for backbone cabling or distribution I
- Indoor connections between bays or floors
- Installation in trunkings or cable ducts

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5: 50 µm / 125 µm OS2 : G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA & 900 µm colored (Following IEC 304) thermoplastic
ASSEMBLY	900 µm fibers Individual sheaths 2.50 mm LSZH around a central element
PROTECTION	Reinforced with aramid yarns
OUTER SHEATH	LSZH colored as per below table

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load (Permanent)	4 000N
	Crush resistance	1 500N
	Rodent index	Light
ENVIRONMENTAL	Operating	-20°C to +50° C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1 F5
	CPR Level	Dca s2, d2, a2

Ordering information

PART NUMBER	FIBER	SHEATH						OUTER DIAMETER (mm)				PACKING (m)
		OM3	OM4	OM4A	OM5	OS2	G657A2	24 FO	32 FO	36 FO	48 FO	
MULTIxxRMCyyy	xx FO yyy	Aqua	Purple	Aqua	Lime	Yellow	Yellow	15	24.9	26.7	26.7	T4000

Replace xx by the number of fibers from 24 to 48
 Replace yyy by the types of fibers : OM3, OM4, OM5, OS2, 7A2 (G657A2)

900 MM DISTRIBUTION CABLE



+ ADVANTAGES

- Easy installation : tight buffered fiber for direct termination
- Security : LSZH jacket with Cca CPR level
- Flame retardant

Applications

- DATA : ETHERNET UP TO 400 Gbits/s
- Ideal for backbone cabling
- Indoor links or protected outdoor links
- For inter-building links, to be installed in trunkings

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5: 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA & 900 µm colored (Following IEC 304) thermoplastic
ASSEMBLY	Tight buffered fibers enclosed in a LSZH sheath
PROTECTION	Water resistant glass yarns
OUTER SHEATH	LSZH colored as per below table

Properties

MECHANICAL	Bending radius (mm)	20 x Ø
	Tensile load (Permanent)	2 & 4 fibers : 800 N 6 & 8 fibers : 1000 N 12 fibers : 1200 N 24 fibers : 1400 N
	Crush resistance	1 000N
	Rodent index	-
ENVIRONMENTAL	Operating temperature	-20°C to +50° C
	Fire rating	IEC 60332-3
	Smoke emission	IEC 60754-1
	CPR level	Cca s1, d1, a1

Ordering information

PART NUMBER	FIBER	STEATH					OUTER DIAMETER (mm)			PACKING (m)
		OM3	OM4	OM5	OS2	G657A2	6 FO	12 FO	24 FO	
MULTIxxIEyyyC	xx FO yyy	Aqua	Aqua	Lime	Yellow	Yellow	6.3	7.6	13	D4000

Replace xx by the number of fibers: 6, 12 or 24

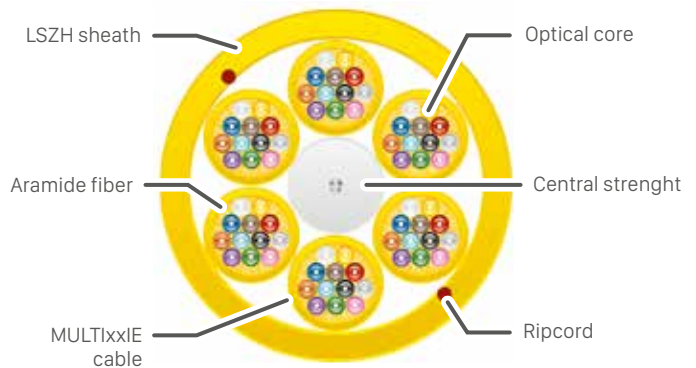
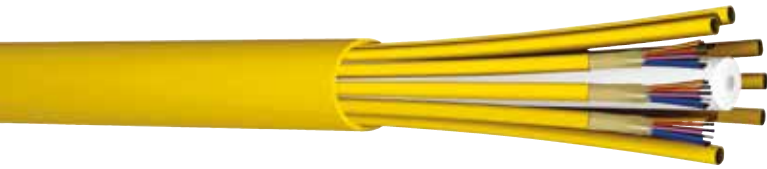
Replace yyy by the types of fibers : OM3, OM4, OM5, OS2, 7A2 (G657A2)

Color of sheath : OM3/OM4 aqua RAL 6027, OM5 lime green PANTONE 381C, OS2/G657A2 yellow RAL 1021

900 MM BUNDLE TIGHT BUFFERED



ON REQUEST



+ ADVANTAGES

- Easy installation : tight buffered fiber for direct termination
- Saving time installation : bundle of several cables to be pulled at once
- Flame retardant

Applications

- DATA : ETHERNET UP TO400 Gbits/s
- Ideal for backbone cabling
- Indoor links or protected outdoor links
- Installation in trunkings or cable ducts

Standards

- OPTICAL FIBER: Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5) Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5: 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA & 900 µm colored (Following IEC 304) thermoplastic
ASSEMBLY	4, 6 or 8 sub cables around a central strenght member and covered by a LSZH sheath
PROTECTION	Aramid yarns inside each distribution cable
OUTER SHEATH	LSZH colored as per below tables

Properties

MECHANICAL	Bending radius (mm)	20 x Ø
	Tensile load (Installation)	2300 N (36-48fo) 3400 N (72fo) 3500 N (96fo)
	Crush resistance	1500 N
ENVIRONMENTAL	Operating temperature	-20°C to +70° C
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1 F5
	CPR level	Cca s1, d1, a1

Ordering information

PART NUMBER	FIBER	STEATH					OUTER DIAMETER (mm)				PACKING (m)
		OM3	OM4	OM5	OS2	G657A2	36-48 FO	72 FO	96 FO		
MULTixxiEMCyyyC	xx FO yyy	Aqua	Aqua	Lime	Yellow	Yellow	16	19.6	23	D4000	

Replace xx by the number of fibers: 6, 12 or 24

Replace yyy by the types of fibers : OM3, OM4, OM5, OS2, 7A2 (G657A2)

Color of sheath : OM3/OM4 aqua RAL 6027, OM5 lime green PANTONE 381C, OS2/G657A2 yellow RAL 1021

CENTRAL TUBE CABLE



+ ADVANTAGES

- Easy installation : indoor/outdoor cable
- Good watertightness for universal use
- Flame retardant

Applications

- DATA : ETHERNET UP TO 400 Gbits/s
- Indoor or outdoor links
- For inter-building links, to be installed in trunkings
- Termination requires fan-out kit

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Central tube PBT filled with Gel
PROTECTION	Water resistant glass yarns
OUTER SHEATH	LSZH Back RAL 9005

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load (Permanent)	1200 N
	Crush resistance	3000 N
	Rodent index	Medium
ENVIRONMENTAL	Operating temperature	-20°C to +70° C
	Fire rating	IEC 60332-3
	Smoke emission	IEC 60754-1
	Fluid penetration	IEC 60794-1-2 F5
	CPR level	Cca s1, d1, a1

Ordering information

PART NUMBER	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)		PACKING (m)
			6-12 FO	24 FO	
INTEX xx yyy C	LSZH	Cca	6.5	8.1	D4000

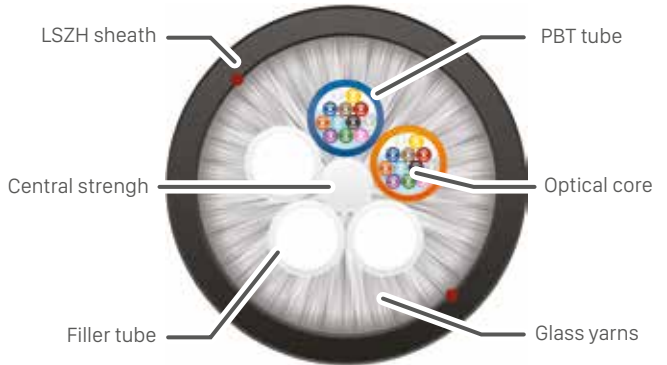
Replace xx by the number of fibers from 6 to 24
 Replace yyy by the type of fiber : OM3, OM4, OM5, OS2, 7A2 (G657A2)

OPTICAL CABLES

MULTI TUBES CABLE



ON REQUEST



+ ADVANTAGES

- Low radius curve and low friction
- Multitube for universal use
- From 24 FO to 144 FO
- Flame retardant

Applications

- DATA : ETHERNET UP TO 400 Gbits/s
- Indoor or Protected outdoor links
- For inter-building links, to be installed in trunkings
- Termination requires fan-out kit

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5: 50 µm / 125 µm OS2/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	6 or 12 PBT tubes around a central strength member and covered by a LSZH sheath
PROTECTION	Water resistant glass yarns
OUTER SHEATH	LSZH Black RAL 9005

Properties

MECHANICAL	Bending radius (mm)	20 x Ø
	Tensile load (Installation/Permanent)	2700 N / 1600 N
	Crush resistance	3000 N
ENVIRONMENTAL	Rodent index	Light
	Operating temperature	-40°C to +70° C
	Fire rating	IEC 60332-3
	Smoke emission	IEC 60754-1 F5
	CPR level	Eca

Ordering information

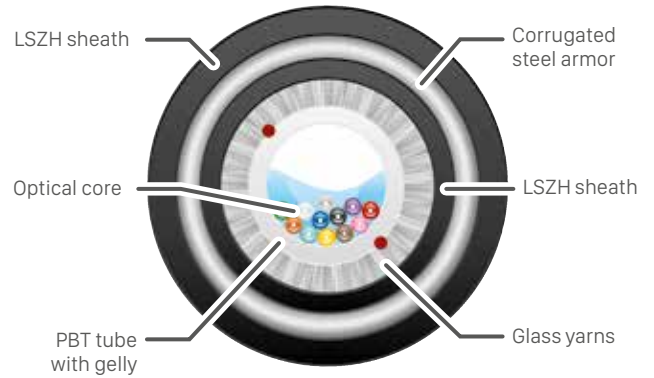
PART NUMBER	SHEATH	OUTER DIAMETER (mm)							PACKING (m)
		24 FO	36 FO	48 FO	60 FO	72 FO	96 FO	144 FO	
INTEX MT xx yyy	LSZH	10.6	10.6	10.6	11.9	11.9	13.8	17.3	T4000

Replace xx by the number of fibers : 24, 36, 48, 60, 72, 96 or 144
 Replace yyy by the type of fiber : OM3, OM4, OS2, 7 A2 (G657A)

ARMORED CABLE WITH DOUBLE SHEATH



ON REQUEST



+ ADVANTAGES

- High rodent protection thanks to the armor
- Excellent water tightness thanks to the double sheath
- High crush resistance : allow a direct buried installation

Applications

- DATA : ETHERNET UP TO 400 Gbit/s
- Outdoor links only, DIRECT buried
- Termination requires fan-out kit

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5: 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Central tube PBT filled with Gel
PROTECTION	Water resistant glass yarns corrugated steel tape
OUTER SHEATH	LSZH, Double Black Sheath RAL 9005

Properties

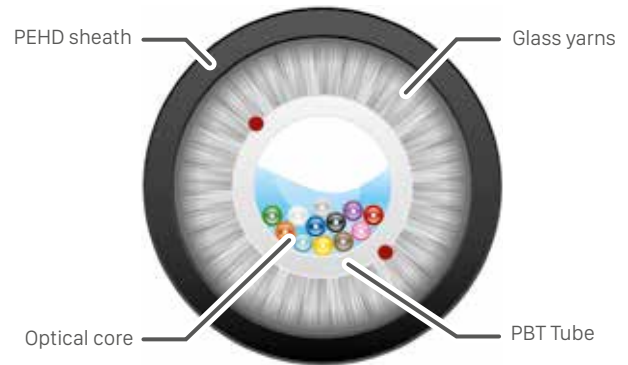
MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	2500 N / 1500 N
	Crush resistance	5000 N
	Rodent index	Very strong
ENVIRONMENTAL	Operating temperature	-40°C to +70° C
	Fluid penetration	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	Fire rating	IEC 60332-1
	CPR level	Eca

Ordering information

PART NUMBER	SHEATH	OUTER DIAMETER (mm)		PACKING (m)
		6-12 FO	24 FO	
EXTALCTDSxxSH	LSZH	7.4	9.0	D4000

Replace xx by the number of fibers (6, 12 or 24)
Replace yyy by the type of fiber OM3, OM4, OM5, OS2, 7A2 (G657A2)

CENTRAL TUBE OUTDOOR CABLE



+ ADVANTAGES

- Excellent rodent protection
- Excellent watertightness
- Black PE sheath for good UV resistance

Applications

- DATA : ETHERNET UP TO 400G
- Outdoor links only,
- Termination requires fan-out kitt

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Central tube PBT filled with Gel
PROTECTION	Hydroinflating glass yarn
OUTER SHEATH	PEHD Black RAL 9005

Properties

MÉCANIQUE	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	2500 N / 1500 N
	Crush resistance	4000 N
ENVIRONMENTAL	Rodent index	High
	Operating temperature	-40°C to +70° C
	Fluid penetration	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering information

PART NUMBER	STEATH	OUTER DIAMETER (mm)		PACKING (m)
		6-12 FO	24 FO	
EXTCT xx yyy	PEHD	7.1	8.2	D4000

Replace xx by the number of fibers (6, 12 or 24)
 Replace yyy by the type of fiber OM3, OM4, OM5, OS2, 7A2 (G657A2)

DOUBLE SHEATH CENTRAL TUBE CABLE



ON REQUEST



+ ADVANTAGES

- Good protection against rodents and optimized crush resistance
- Outdoor links only
- UV-resistant black polyethylene double sheath for outdoor application

Applications

- DATA : Ethernet up to 400 Gbits/s
- Outdoor links only
- Termination requires fan-out kit

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5: 50 µm / 125 µm OS2/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Central tube PBT filled with Gel
PROTECTION	Water resistant glass yarns
OUTER SHEATH	LSZH, Double Black Sheath RAL 9005

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	2500 N / 1500 N
	Crush resistance	4000 N
	Rodent index	Hight
ENVIRONMENTAL	Operating temperature	-40°C to +70° C
	Fluid penetrations	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	CPR level	Fca

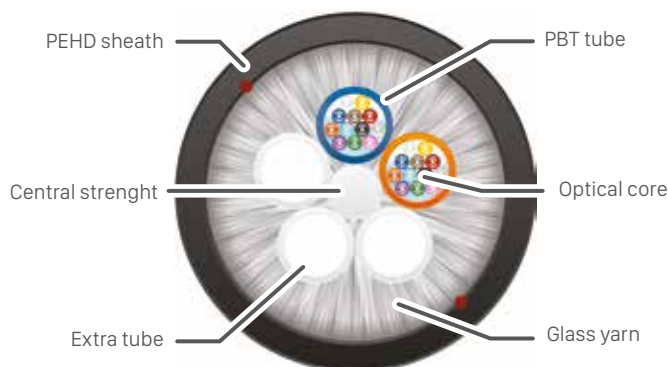
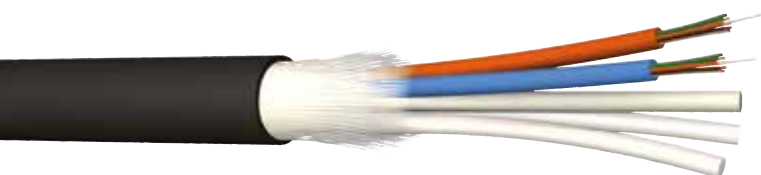
Ordering information

PART NUMBER	SHEATH	OUTER DIAMETER (mm)		PACKING (m)
		6-12 FO	24 FO	
EXTCTDS xx yyy	PEHD	10.1	10.6	D4000

Replace xx by the number of fibers (6, 12 or 24)
 Replace yyy by the type of fiber : OM3, OM4, OM5, OS2, 7A2 (G657A2)

OUTDOOR FIBER OPTIC CABLE

MULTI TUBES OUTDOOR CABLE



+ ADVANTAGES

- Good rodent protection
- Multi-tube cable can hold up to 144 coress
- Black PE sheath for good UV reisitance allow external use only

Applications

- DATA : ETHERNET UP TO 400 Gbits/s
- Outdoor links only
- Termination requires fan-out kit

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Multi tube PBT filled with Gel around a central element
PROTECTION	Water resistant glass yarns
OUTER SHEATH	PEHD Black RAL 9005

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	2700 N / 1600 N
	Crush resistance	4000 N
ENVIRONMENTAL	Rodent index	Hight
	Operating temperature	-40°C to +70° C
	Fluid penetrations	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering information

PART NUMBER	SHEATH	OUTER DIAMETER (mm)				PACKING (m)
		24-48 FO	60-72 FO	96 FO	144 FO	
EXTMT xxx yyy	PEHD	10.6	11.9	13.8	17.3	T4000

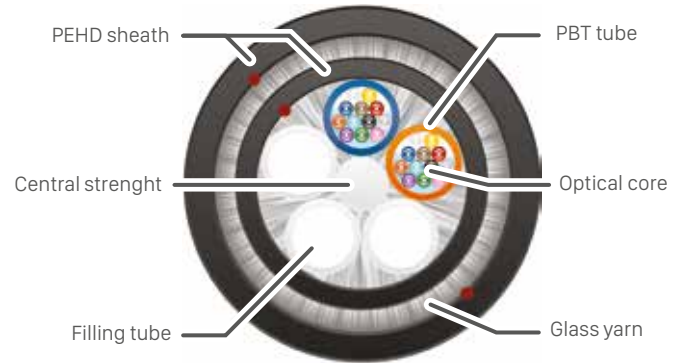
Replace xx by the number of fibers (6, 12 or 24)
 Replace yyy by the type of fiber : OM3, OM4, OM5, OS2, 7A2 (G657A2)

OUTDOOR FIBER OPTIC CABLE

DUAL SHEATH MULTI TUBES **CABLE**



ON REQUEST



+ ADVANTAGES

- Good rodent protection and crush resistance optimized thanks the double sheath
- Multi-tube cable can hold up to 144 cores
- For external use only, the black PE sheath has an excellent UV resistance

Applications

- DATA : Ethernet up to 400 Gbits/s
- Outdoor links only
- Termination requires fan-out kit

Standards

- OPTICAL FIBER:
 - Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
 - Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM : ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Multi tube PBT filled with Gel around a central element
PROTECTION	Water resistant glass yarns
OUTER SHEATH	PEHD noir RAL 9005

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	2700 N / 1600 N
	Crush resistance	4000 N
	Rodent index	High
ENVIRONMENTAL	Operating temperature	-40°C to +70° C
	Fluid penetrations	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering information

PART NUMBER	STEATH	OUTER DIAMETER (mm)				PACKING (m)
		24-48 FO	60-72 FO	96 FO	144 FO	
EXTMTDS xxx yyy	PEHD	10.6	11.9	13.8	17.3	D4000

Replace xx by the number of fibers 24, 36, 48, 60, 72, 96, 144
 Replace yyy by the type of fibers : OM3, OM4, OM5, OS2, 7A2 (G657A2)

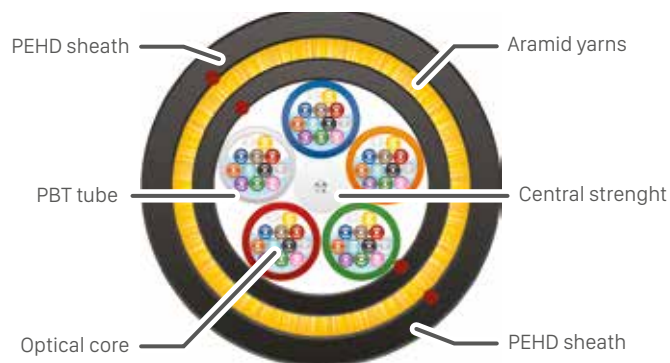
OPTICAL CABLES

OUTDOOR FIBER OPTIC CABLE

AERIAL DUAL SHEATH MULTI TUBES CABLE



ON REQUEST



+ ADVANTAGES

- Specific cable for aerial links between pylons
- Excellent protection against weather aggressions
- Hight crush resistance
- UV resistance

Applications

- DATA : Ethernet up to 400 Gbits/s
- Outdoor aerial links only
- Termination requires fan-out kit

Standards

- OPTICAL FIBER :
Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM: ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OS2/G652D/G657A2: 9 μm / 125 μm
COATING	250 μm PMMA colored (Following IEC 304) thermoplasti)
ASSEMBLY	Multi tube PBT filled with Gel around a central element
PROTECTION	Aramid yarns
OUTER SHEATH	PEHD, double black sheath RAL 9005

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	4000N
	Crush resistance	2500 N
	Rodent index	High
ENVIRONMENTAL	Operating temperature	-40°C to +70°C
	Fluid penetrations	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering information

PART NUMBER	SHEATH	OUTER DIAMETER (mm)								PACKING (m)
		12 FO	24 FO	36 FO	48 FO	60 FO	72 FO	96 FO	144 FO	
ADSSDS120 xx yyy	PEHD	12.7	12.7	12.7	12.7	12.7	12.7	14.3	17.8	D4000

Replace xx by the number of fibers : 12 to 144

Replace yyy by the type of fibers : OS2, 7A2 (G657A2)

TACTICAL / INDUSTRIAL 900 MM CABLE



+ ADVANTAGES

- Insensitive to friction
- Small bending radius
- Suitable for repetitive movements (shape memory)
- Ideal for extreme installations and GSM
- Good tightness and resistance to rodents

Applications

- DATA : Ethernet up to 400 Gbits/s
- Outdoor links
- FTTP, FTTA and hostile environment
- Direct buried installation

Standards

- OPTICAL FIBER
Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM: ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2: G652D/G657A2 : 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Tightly woven fibers in polyurethane sheathing
PROTECTION	Aramid yarns
OUTER SHEATH	Black PUR (polyurethane) RAL 9005

Properties

MECHANICAL	Bending radius	6 x Ø
	Tensile load to the Installation	700 N
	Crush resistance	2000 N
	Rodent index	Very good
ENVIRONMENTAL	Operating temperature	-40°C to +70° C
	UV resistance	IEC 60068-2-5
	Fire rating	IEC 60332-1
	Smoke emission	IEC 60754-1 F5
	CPR level	Fca

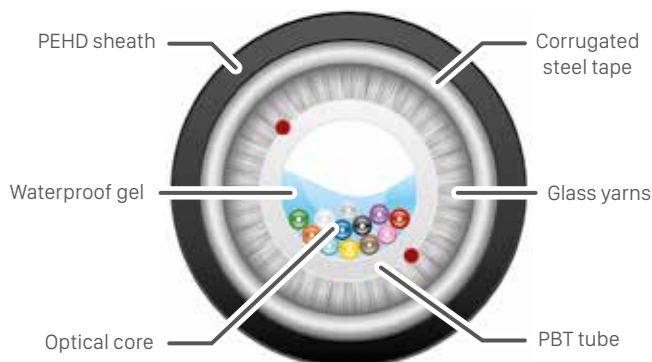
Ordering information

PART NUMBER	FIBER	SHEATH	OUTER DIAMETER (mm)	PACKING (m)
FOLIVE xx yyy	xx FO Folive yyy	PUR	5.0 à 8.2	D4000

Replace xx by the number of fiber from 6 to 12
Replace yyy by the type of fibers : OM3, OM4, OM5, OS2, 7A2 (G657A2)

OPTICAL CABLES

ARMORED CENTRAL TUBE CABLE



+ ADVANTAGES

- Good level of rodent protection and very high crush resistance
- Can be buried without protection
- Black polyethylene sheath for good UV resistance

Applications

- DATA : Ethernet up to 400 Gbits/s
- Outdoors links only
- Termination requires fan-out kit

Standards

- OPTICAL FIBER
Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM: ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2/G652D/G657 : 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Central PBT tube filled with gel
PROTECTION	Water resistant glass yarns and corrugated steel tape
OUTER SHEATH	PEHD Black RAL 9005

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	2 500N / 1 500N
	Crush resistance	5 000N (version R)
ENVIRONMENTAL	Rodent index	very strong
	Operating temperature	-40°C to +70° C
	Fluid penetrations	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering information

PART NUMBER	SHEATH	OUTER DIAMETER (mm)		PACKING (m)
		6-12 FO	24 FO	
EXTALCTxxyyy	PEHD	7.4	8.3	D4000
EXTALCTxxRyyy	PEHD	8.7 à 9.5	8.5 à 9.7	D4000

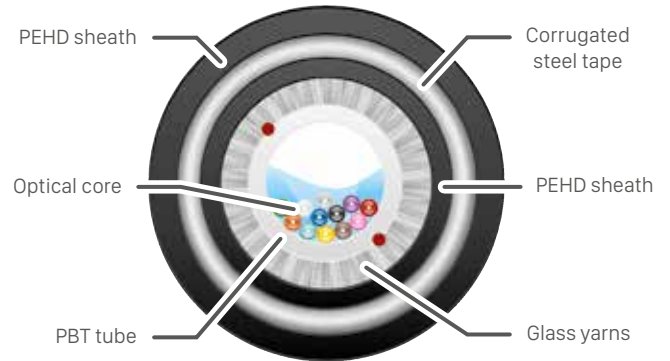
Replace xx by the number of fiber (6, 12 or 24)
Replace yyy by the type of fibers : OM3, OM4, OM5, OS2, 7A2 (G657A2)

OUTDOOR FIBER OPTIC CABLE

DUAL SHEATH ARMORED CT CABLE



ON REQUEST



+ ADVANTAGES

- Excellent rodent protection and high crush resistance
- Can be buried without protection
- Double black polyethylene sheath, UV resistance

Applications

- DATA : Ethernet up to 400 Gbits/s
- Outdoor links only, direct buried
- Termination requires fan-out kit

Standards

- OPTICAL FIBER
Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM: ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4, OM5 : 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Central PBT tube filled with gel
PROTECTION	Water resistant glass yarns and corrugated steel tape
OUTER SHEATH	Double PEHD Black RAL 9005

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	2 700N / 1 500N
	Crush resistance	2 500N
ENVIRONMENTAL	Rodent index	Very strong
	Operating temperature	-40°C to +70° C
	Fluid penetration	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering information

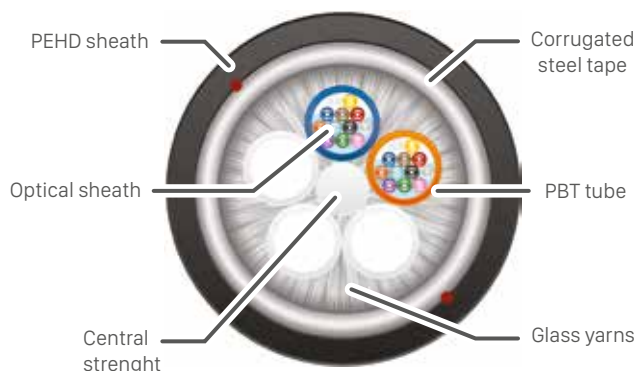
PART NUMBER	SHEATH	OUTER DIAMETER (mm)		PACKING (m)
		6-12 FO	24 FO	
EXTALCTDSxxyyy	PEHD	9.9	12.8	D4000

Replace xx by the number of fibers (6, 12 ou 24)
Replace yyy by the type of fiber : OM3, OM4, OM5, OS2, 7A2 (G657A2)

OPTICAL CABLES

OUTDOOR FIBER OPTIC CABLE

ARMORED MULTI TUBE CABLE



+ ADVANTAGES

- Excellent rodent protection and high crush resistance
- Can be buried without protection
- UV resistance

Applications

- DATA : Ethernet up to 400 Gbits/s
- Outdoor links only, direct buried
- Termination requires fan-out kit

Standards

- OPTICAL FIBER
Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM: ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Multi PBT tube filled with gel around a central element
PROTECTION	Water resistant glass yarns and corrugated steel armor
OUTER SHEATH	PEHD Black RAL 9005

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	3 200N / 2 700N
	Crush resistance	4000N
ENVIRONMENTAL	Rodent index	Very strong
	Operating temperature	-40°C to +70°C
	Fluid penetration	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering information

PART NUMBER	SHEATH	OUTER DIAMETER (mm)					PACKING (m)
		24 FO - 36 FO - 48 FO - 60 FO - 72 FO	96 FO	144 FO	288 FO		
EXTALMT xxx yyy	PEHD	12.5	13.5	16.5	18.0	D4000	

Replace xxx by the number of fibers 24, 36, 48, 60, 72, 96, 144, 288
Replace yyy by the type of fiber : OM3, OM4, OM5, OS2, 7A2 (G657A2)

OUTDOOR FIBER OPTIC CABLE

DUAL SHEATH ARMORED MULTI TUBE **CABLE**



ON REQUEST



+ ADVANTAGES

- Excellent rodent protection and crush resistance
- Can be buried without protection
- UV resistance

Applications

- DATA : Ethernet up to 400 Gbits/s
- Outdoor links only, direct buried
- Termination requires fan-out kit

Standards

- OPTICAL FIBER
Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM: ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Multi PBT tube filled with gel around a central element
PROTECTION	Water resistant glass yarns and corrugated steel armor
OUTER SHEATH	PEHD Black RAL 9005

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation/Permanent	3 600N / 2 000N
	Crush resistance	2 500N
ENVIRONMENTAL	Rodent index	Very strong
	Operating temperature	-40°C to +70°C
	Fluid penetration	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5
	CPR level	Fca

Ordering information

PART NUMBER	SHEATH	OUTER DIAMETER (mm)								PACKING (m)
		24 FO	36 FO	48 FO	60 FO	72 FO	96 FO	144 FO	288 FO	
EXTALMTDS xxx yyy	PEHD	10.0	13.0	13.0	13.0	13.0	15.6	18.0	18.0	D4000

Replace xxx by the number of fibers 24, 36, 48, 60, 72, 96, 144, 288
Replace yyy by the type of fibers : OM3, OM4, OM5, OS2, 7A2 (G657A2)

OUTDOOR FIBER OPTIC CABLE

FIRE RESISTANT OPTICAL CABLE



+ ADVANTAGES

- Fire resistant optical cable : Following XPC-C 93539
- Optimal protection against rodents thanks to a steel wires armor
- Can be used for direct burried installation

Applications

- DATA : Ethernet up to 400 Gbits/s
- Indoors or outdoor links
- For inter-building links, to be installed in trunkings
- Termination requires fan-out kit

Standards

- OPTICAL FIBER
Multimode IEC 60793-2-10 : A1a.2 (OM3), A1a.3 (OM4), A1a.4 (OM5)
Singlemode IEC 60793-2-50 : B1.3 (OS2, G652 D) B6.a (G657A)
- OPTICAL CABLE : IEC 60794
- OPTICAL SYSTEM: ISO 11801, EIA/TIA 568-C.3, EN 50173

Characteristics

CORE	OM3/OM4/OM5 : 50 µm / 125 µm OS2/G652D/G657A2: 9 µm / 125 µm
COATING	250 µm PMMA colored (Following IEC 304) thermoplastic
ASSEMBLY	Multi PBT tube or Central tube
PROTECTION	Water resistant glass yarns and Steel wires armor
OUTER SHEATH	Double sheath LSZH black/orange (FOFIRE/FOFIRE MT)

Properties

MECHANICAL	Bending radius	20 x Ø
	Tensile load to the Installation	4 500N (FOFIRE) 6 000 (FOFIRER)
	Crush resistance	3 500N
	Rodent index	High
ENVIRONMENTAL	Operating temperature	-40°C to +70° C
	Fluid penetration	IEC 60794-1-2 F5
	UV resistance	IEC 60068-2-5

Ordering information

PART NUMBER	FIBER	SHEATH	CPR LEVEL	OUTER DIAMETER (mm)							PACKING (m)
				6-12 FO	24 FO	48 FO	60 FO	72 FO	96 FO	144 FO	
FOFIRE xx yyy	xx FOFIRE yyy	LSZH	Eca	11.0	12.0	-	-	-	-	-	T4000
FOFIREMT xx yyy	xx FOFIRE MT yyy	LSZH	Eca	-	-	15.2	15.2	15.2	15.2	15.2	T4000

Replace xxx by the number of fibers: 6, 12, 24, 48, 60, 72, 96, 144
Replace yyy by the type of fibers : OM3, OM4, OM5, OS2, 7A2 (G657A2)

WHICH PANEL DESIGNED FOR APPLICATIONS

RANGE	INSTALLATION	APPLICATIONS	LOCATION	ACCESS	MATERIAL	KEY POINTS
TC	Building	LAN	Rack Wall mounted cabinet	Sliding	Steel	Quality Price ratio
CH1U	Building	LAN SAN (Data center)	Rack Dataroom Wall mounted cabine	Sliding	Steel/ABS	Modularity medium density
DCPANEL 1U	Building	LAN SAN (Data center) MAN (Telecom)	Rack Dataroom Wall mounted cabinet	Telescopic	Steel Aluminum	Modularity High density
UHD PANEL 1U	Building	SAN (Data center)	Data center	Sliding	steel ABS	High density
UHD PANEL 3U	Building	SAN (Data center)	Data center	Frame	Steel	Very high density Vertical access
48BMOM6SCDLCQI	Building warehouse Industrial plant	LAN	DIN RAL	Box screwed	Steel	IP20 Industrial application Robustness
FTTBOXxU	Residential Warehouse	MAN (FTTH) LAN CAN (Indus)	Wall installation	open glass door or sliding	Steel	Modularity Saving space solution
48BMOPxxIP65PN	Building External wall	LAN MAN (FTTH) CAN (Indus)	External wall	Door key locked	ABS	IP65 Capacity Multi-fonctions

 Indoor

 Indoor/outdoor

 Outdoor

3U UHD PANEL



+ ADVANTAGES

- 19" 3U frame for 12 cassettes :total of 288 fibers
- High modularity through different type of cassettes or adapters plates
- Easy maintenance : Access to vertical modules
- Easy cord management : lateral access through open rings

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)

Standards

- OPTICAL PERFORMANCES : IEC-61754-20, IEC-61754-14, IEC-61754-7
- OPTICAL SYSTEM : ISO/IEC 11801 2nd Edition, EN 50173, IEEE 802.3ae, TIA/EIA-604-5

Characteristics

DIMENSIONS	Width 482.6 mm (19") x depth 426 mm x height 130 mm (3U)
MATERIAL	12/10 steel sheet and aluminum epoxy paint RAL 7016
FEATURES	19" fixed frame for 12 cassettes or adapter plates
INPUT / OUPUT	Oval hole equipped with rubber for cable protection

Properties

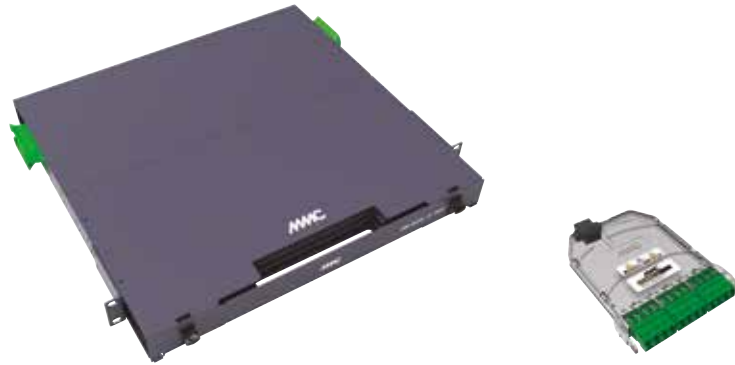
MECHANICAL	Net weight (unloaded)	5.2 kg (3U)
OPTICAL	Compatible adapters	SCS, LCD, MTP®S
	Maximum density	288 cores
ENVIRONMENTAL	Temperature range	-5°C to + 40°C

Ordering information

PART NUMBER	DESCRIPTIONS	PACKING
UHD PANEL 3U 288C	Empty UHD 3U chassis for 12 vertical cassettes / adapter plates	Unit
UHD K7 MTP 12 yyy zzz	UHD cassettes 24fo MTP® fully loaded	Unit
UHD FE xxA yyyy wwww	Loaded UHD adapter plates	Unit
UHD FU OB	UHD blank module	Unit

Replace xx by the number of adapters : 6 ou 12
 Replace yyyy by the type of adapters : LCD, MTP®S
 Replace wwww by the type of adapters: MONO (blue for UPC,) OM3 (aqua) OM4 (Erica violet), OM5 (lime green)
 Replace zzz by the performances of the fibers: OM3, OM4, OM5, OS2

1U UHD PANEL 144 FO



+ ADVANTAGES

- High modularity : 3 independants layers of 4 cassettes for a total of 144 fibers
- Modularity : different module are disponibles
- Easy management thanks to open rings each side
- Easy access to cable : full access thanks to a back cover

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitain Area Network)
- WAN (Wide Area Network)

Standards

- OPTICAL PERFORMANCES : IEC-61754-20, IEC-61754-14, IEC-61754-7
- OPTICAL SYSTEM : ISO/IEC 11801 2nd Edition, EN 50173, IEEE 802.3ae, TIA/EIA-604-5

Characteristics

DIMENSIONS	L Width 482.6 mm (19") x depth 384 mm x height 44.3mm (1U)
MATERIAL	12/10 steel sheet and aluminum epoxy paint RAL 7016
FEATURES	19" telescopic panel for 12 MTP cassettes
INPUT/OUTPUT	Easy access

Properties

MECHANICAL	Net weight (unloaded)	7.06 kg
OPTICAL	Compatible adapters	LCD
	Maximum density	144 cores over 12 cassettes
ENVIRONMENTAL	tempreature range	-5°C to + 40°C

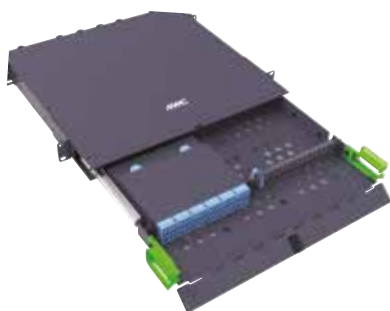
Ordering information

PART NUMBER	DESCRIPTION	PACKING
UHD PANEL 1U 144C	TEmpty UHD 1U telescopic panel with front patching rings	Unit
UHD K7 MTP 06 yyy zzz	UHD cassettes 12fo MTP fully loaded	Unit

Replace yyyy by the type of adapters 12 adapters: LCD, MTP[®]S
 Replace zzz by the performances of the fibers : OM3, OM4, OM5, OS2

OPTICAL CONNECTORS

1U DC PANEL - MULTIFUNCTIONS



+ ADVANTAGES

- High density for Data Center
- Modularity through cassettes or adapter plates
- Side management thanks to lateral rings

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)

Standards

- OPTICAL PERFORMANCES : IEC-61754-20, IEC-61754-14, IEC-61754-7
- SYSTEM : ISO/IEC 11801 2nd Ed. , EN 50173, IEEE 802.3ae, TIA/EIA-604-5

Characteristics

DIMENSIONS	Width 482.6 mm (19") x depth 423 mm x height 44.45 mm (1U)
MATERIAL	12/10 steel sheet and aluminum epoxy paint RAL 7016
FEATURES	19" telescopic panel with removable cassettes or adapter plates
INPUT/OUTPUT	6 x PG13.5/M20 cable gland back input 6 DC cassettes front output or 2 adapters plate front output

Properties

MECHANICAL	Net weight (unloaded)	5.0 kg
OPTICAL	Compatible adapters	LCQ, MTP®D LCD, MTP®S
	Maximum density	120 fo over 2 adapters-plates 144 fo over 6 cassettes
ENVIRONMENTAL	Temperature range	-5°C to + 40°C

OPTICAL CONNECTORS

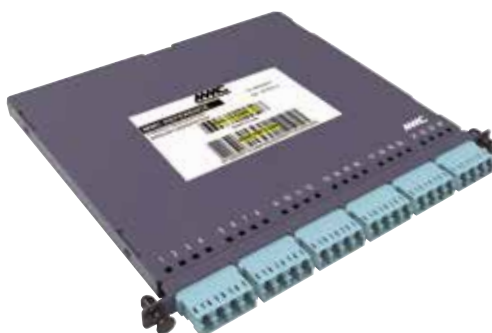
Ordering information

PART NUMBER	DESCRIPTION	PACKING
DC PANEL 1U	Empty Telescopic panel 1U with front patching rings	Unit

LOADED CASSETTES FOR DC PANEL 1U



ON REQUEST



+ ADVANTAGES

- 6 ports slim cassettes
- Available for preterms, fanout or splicing
- Port numbers are printed on top
- Receives LCQ OR EVEN MTP®D

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)

Standards

- OPTICAL PERFORMANCES : IEC-61754-20 IEC-61754-14, IEC-61754-7
- SYSTEM : ISO/IEC 11801 2nd Ed. , EN 50173, IEEE 802.3ae, TIA/EIA-604-5

Characteristics

DIMENSIONS	Width 201.5 mm x depth 160 mm x height 11.5mm
MATERIAL	1.2 mm steel with epoxy paint RAL 7016
FEATURES	Removable splice and fanout cassette for DC Panel
INPUT/OUTPUT	2 x cable entry for fanout or splice connection 6 x LCQ or SCD output on front side of the cassette

Properties

MECHANICAL	Net weight (unloaded)	0.486 kg
OPTICAL	Compatible adapters	LCQ, MTP®D
	Maximum density	24 cores
ENVIRONMENTAL	Temperature range	-5°C to +40°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
DC K7 6A yyy www	DC Cassettes loaded with adapters only	Unit
DC K7 24P yyy zzz	DC Cassettes loaded with adapters, pigtails and splice holders	Unit

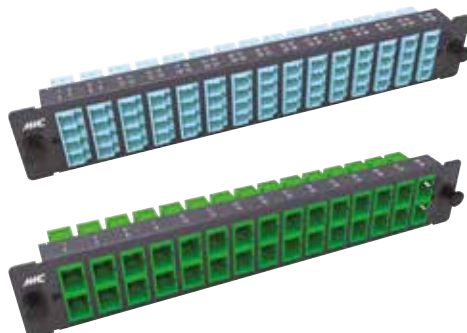
Replace yyyy by the tyoe of adapters : LCQ, MTP®D,
 Replace www by the couleurs of the adapters: MONO (blue for UPC, Green for APC) OM3 (aqua) OM4 (Erica violet, OM5 (lime green)
 Replace zzz by the pigtail performances: OM3; OM4, OM5, OS2)

OPTICAL CONNECTORS

1/2 ADAPTER FRONT PLATES FOR DC PANEL 1U



ON REQUEST



+ ADVANTAGES

- Modularity with removable front plates
- Labelling thanks printed port number
- Reversible plates

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)

Standards

- OPTICAL PERFORMANCES : IEC-61754-20 IEC-61754-14, IEC-61754-7
- SYSTEM : ISO/IEC 11801 2nd Ed. , EN 50173, IEEE 802.3ae, TIA/EIA-604-5

Characteristics

DIMENSIONS	Width 202.5 mm x depth 9.5 mm x height 34.5 mm
MATERIAL	1.2 mm steel and epoxy paint RAL 7016
FEATURES	Removable & reversible adapter plates
INPUT/ OUTPUT	15 LC quad or SC duplex adapters 30 LC duplex or SC simplex adapters

Proprietes

MECHANICAL	Net weight (unloaded)	0.8 kg
OPTICAL	Compatible adapters :	LCQ, MTPD , LCD, MTPS
	Maximum density	60 cores
ENVIRONMENTAL	Temperatures range	-5°C to + 40°C

OPTICAL CONNECTORS

Ordering information

PART NUMBER	DESCRIPTION	PACKING
DC FU 30 SCSLCD	Unloaded adapter plate for 30 adapters LCD or MTPS flangeless only	Unit
DC FU 15 SCDLCQ	Unloaded adapter plate for 15 adapters LCQ or MTPD flangeless only	Unit
DC FE xx A yyyy wwww	Loaded adapter plates with LC or MTP adapter	Unit

Replace xx by the number of adapters, 15 ou 30

Replace yyyy by the type of adapters : LCQ, MTP^D, LCD, MTP^S

Replace wwww by the colore of the adapters: MONO (blue forUPC, Green for APC) OM3 (aqua) OM4 (Erica violet), OM5 (lime green)

MTP CASSETTES FOR DC PANEL 1U



ON REQUEST



+ ADVANTAGES

- Slim MTP®/MPO Plug & Play cassettes
- High reliability : Test reports, S/N & 25 years warranted
- Easy identification : printed port numbers & Polarity sticker
- Ready for MTP 8, 12, 24

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)

Standards

- OPTICAL PERFORMANCES : IEC-61754-20 IEC-61754-14, IEC-61754-7
- SYSTEM : ISO/IEC 11801 2nd Ed. , EN 50173, IEEE 802.3ae, TIA/EIA-604-5

Characteristics

DIMENSIONS	Width 201.5 mm x depth 120 mm x height 11.6mm
MATERIAL	1.2 mm steel with epoxy paint RAL 7016
FEATURES	Extractable Cassette MTP® / 6x LCQ ou SCD
INPUT/OUTPUT	2 x cable entry for fanout or splice connection 6 x LCQ or SCD output on front side of the cassette

Properties

MECHANICAL	Net weight (un-loaded)	0.486 kg
OPTICAL	Compatible adapters :	LCQ, SCD, MTP®D
	Maximum density (Based on 2 x 12 FO MTP®)	72 FO with SCD 144 FO with LCQ
ENVIRONMENTAL	Temperature range	-5°C to +40°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
DC K7 MTP 6 yyyy ww S	DC cassettes MTP® fully loaded base 12 - standards adaptaters with LASER protection	Unit
DC K7 MTP 06 yyyy ww S8	DC cassettes MTP® fully loaded base 8 - standards adaptaters with LASER protection	Unit
DC K7 MTP 6 yyyy ww S4	DC cassettes MTP® fully loaded base 24 - standards adaptaters with LASER protection	Unit

Replace yyyy by the type of adapters: SCD, SCAD, LCQ, LCAQ, MTP®D,
 Replace ww by the pigtails performances : M3 for OM3; M4 for OM4, M5 for OM5, S2 for OS2,
 Replace z by s for adapters with laser partections (Shutter)

CH1U: 1U UNLOADED TRANSFORMER PANEL



+ ADVANTAGES

- Maximum modularity, removable front plates
- Easy ID with label holders on covering ports
- Ultra High Density, 144 FO on 1U front plates
- Plug & Play solution

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)

Standards

- OPTICAL PERFORMANCES : IEC 61754-20, IEC 61754-14, IEC 61754-7
- OPTICAL SYSTEM : ISO 11801 ED2.2 EIA/TIA 568-C.3

Characteristics

DIMENSIONS	L 482.6 mm (19") x P 250 mm x H 44.45 mm (1U)
MATERIAL	Steel 1.5 mm (frame) 1.2 mm (front face) RAL 7016
FEATURES	19" panel with removable modules
INPUT/OUTPUT	Cable entry 2 x PG13.5 & 2 x PG16 1 additional entry LGX type

Properties

MECHANICAL	Net weight (unloaded)	2.40 kg
OPTICAL	Compatible adapters	ST, SC, LC, FC, MU, MT-RJ, E2000, MTP*
	Maximum density (Based on 12 FO MTP)	144 FO with 72 x LCD 144 FO with 36 x LCQ 120 FO with 5 cassettes
ENVIRONMENTAL	Temperature range	-5°C to +40°C

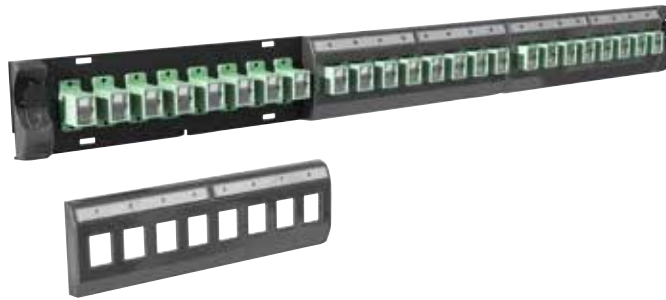
Ordering information

PART NUMBER	DESCRIPTION	PACKING
CH1U	Empty chassis including cable routing management kit 48MKS with fiber spoolers	Unit
FU1U24SCSLCD	Unloaded front plate for 24 adapters STS, SCS, LCD or MTP®S	Unit
FU1U24SCDLCQ	Unloaded front plate for 24 adapters STD, SCD, LCQ or MTP®D	Unit
FU1U48SCSLCD	Unloaded front plate for 48 adapters SCS, LCD or MTP®S flangeless only	Unit
FU1U36SCDLCQ	Unloaded front plate for 36 adapters STD, SCD, LCQ or MTP®D flangeless only	Unit
FU1U72SCSLCD	Unloaded front plate for 72 adapters SCS, LCD or MTP®S without screws	Unit
FU1U3MOD	Unloaded front plate for 3 LGX modules and/or MTP® cassettes	Unit
ECA451U	Rear cable entry 45° for 1 x PG13.5 or 1 x PG16	Unit
ECAMP1U	Rear cable entry for Micro and Premium preterms	Unit
EQCH1U19	19" rear additional bracket	Pack of 2
EQCH1U23	ETSI 23" front or rear alternative bracket	Pack of 2

LOADED FRONT PLATES FOR CH1U



ON REQUEST



+ ADVANTAGES

- Saving time installation with adapters loaded front plates
- Clear identification : easy ID, labeling option with covering ports

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitain Area Network)
- WAN (Wide Area Network)

Standards

- OPTICALPERFORMANCES : IEC 61754-20, IEC 61754-14 IEC 61754-7
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3

Characteristics

DIMENSIONS	Width 422.4 mm x height 44 mm
MATERIAL	Steel sheet 1.2 mm with powder coating RAL 7016
FEATURES	19" front face equipped with adapters
LOCKING SYSTEM	2 x push-pull buttons (snap latches)

Properties

MECHANICAL	Net weight (unloaded) :	0.10 kg
OPTICAL	Compatible adapters	ST, SC, LC, FC, MU, MT-RJ, E2000, MTP®
	Compatible fibers	All types of MM & SM
ENVIRONMENTAL	Temperature range	-5°C to +40°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
FE 1U xx A yyyy wwwww	Loaded front plate delivered unassembled on the fiber panel: FE 1U xx A yyyy wwwww	Unit
TO 1U xx A yyyy wwwww	Loaded front plate delivered assembled on the fiber panel: TO 1U xx A yyyy wwwww	Unit

Replace xx by the number of adaptaters : de 1 à 72

Replace yyyy by the type of adaptaters: STS, FCS, SCS, LCD, STD, FCD, SCD, LCQ

Replace wwwww by the colors of the adaptater :MUL (beige) MONO (Blue for UPC, Green for APC) OM3 (Aqua) OM4 (Erica), OM5 (Lime green)

LOADED LGX MODULES FOR CH1U



ON REQUEST



+ ADVANTAGES

- Loaded LGX modules for CH1U panel
- ID label holders on panel front plates

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)

Standards

- IEC 60793-2-10 : A1a 2(om3), A1a 3(om4), A1a4 (om5)
- IEC 60793-2-50 : B1.3 (oS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced)

Characteristics

DIMENSION	width 96.6 mm x depth 40 mm x height 29 mm
MATERIAL	Steel sheet 1.2 mm (fiber modules) Steel Sheet 1.5 mm (copper & brush module) with powder coating RAL 70166
FEATURES	LGX adapter modules loaded with adapter
LOCKING SYSTEM	2 x push-pull buttons (snap latches)

Properties

MECHANICAL	Net weight (unloaded) :	0.06 kg to 0.10 kg
OPTICAL	Compatible adapters	4 x XLR 6 x RJ45 BCTL 6 X SCD/LCQ/MTP®D 12 SCS/LCD/MTPS®
	Compatible fibers	All types of MM & SM
ENVIRONMENTAL	Temperature range	-5°C to +40°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
LX xx A yyyy wwww	Loaded LGX adapter plate module	Unit
LXK7 xxP yyyy zzz	Cassette en ABS équipé de 6 traversées SCD ou LCQ + 12 ou 24 pigtaills	Unit

Replace xx by the number of adapters (6 or 12) or pigtaills (12 ou 24)

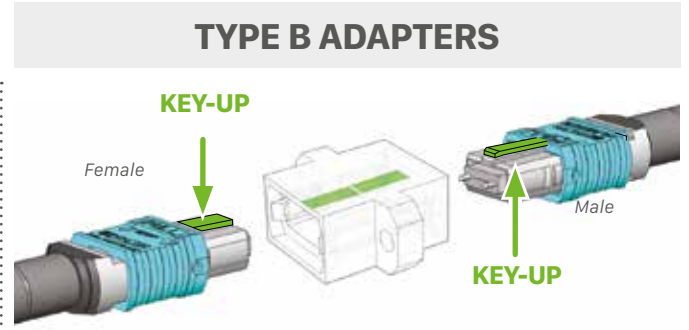
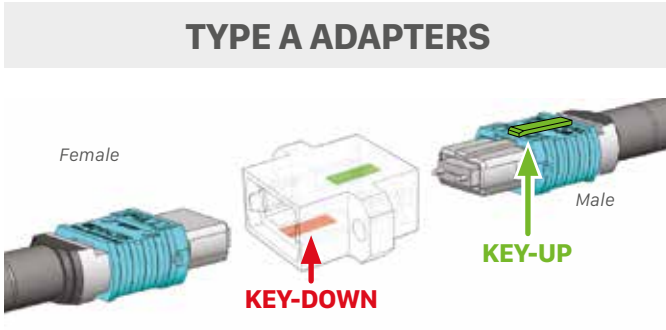
Replace yyyy by the type of adaptaters or pigtaills : STS, FCS, SCS, LCD, STD, FCD, SCD, LCQ, XLR (LxK7 : only SCD or LCQ)

Replace wwww by the colore of adapters : MUL (beige) MONO (bleur of UPC, Green of APC) OM3 (aqua) OM4 (Erica), OM5 (lime green)

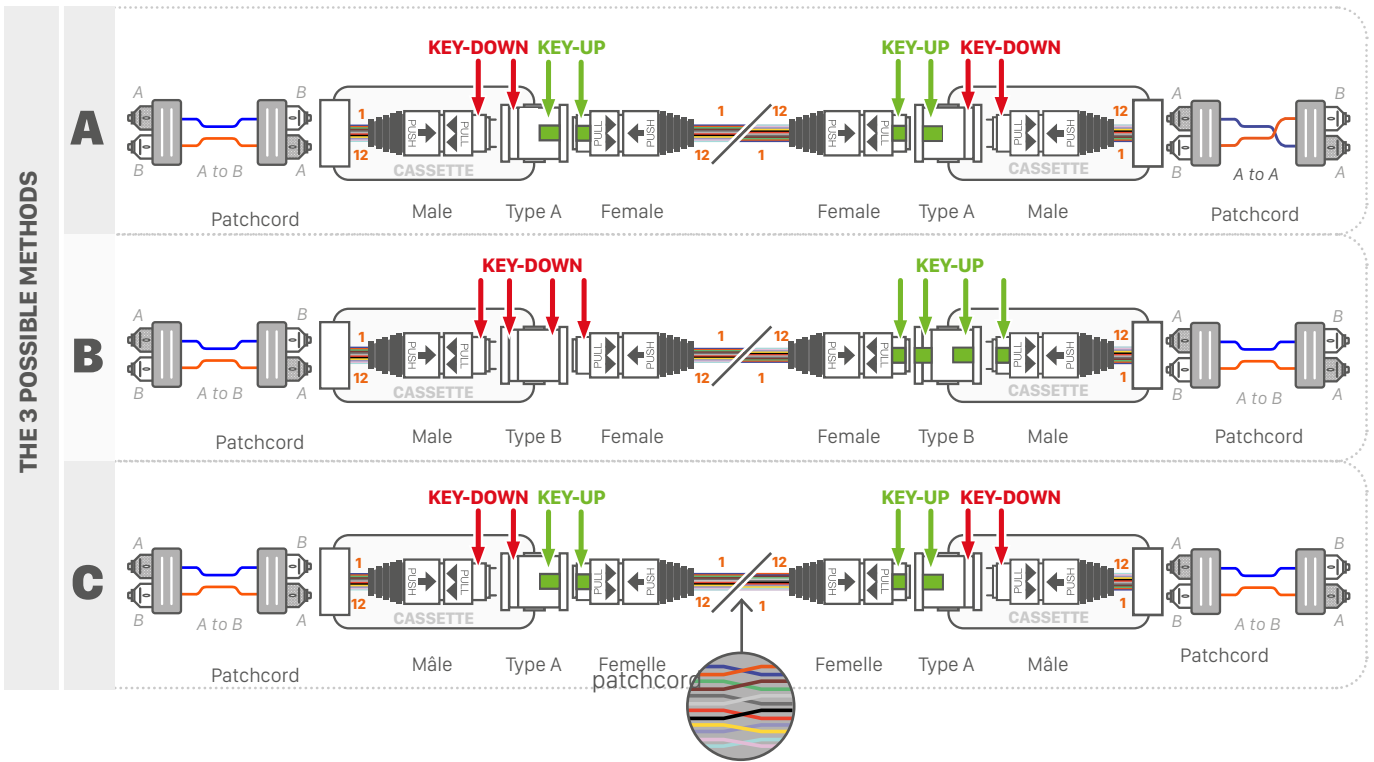
Replace zzz by the pigtaills performances : OM3, OM4, OM5, OS2

CASSETTE DIAGRAM POLARITY & GENDER

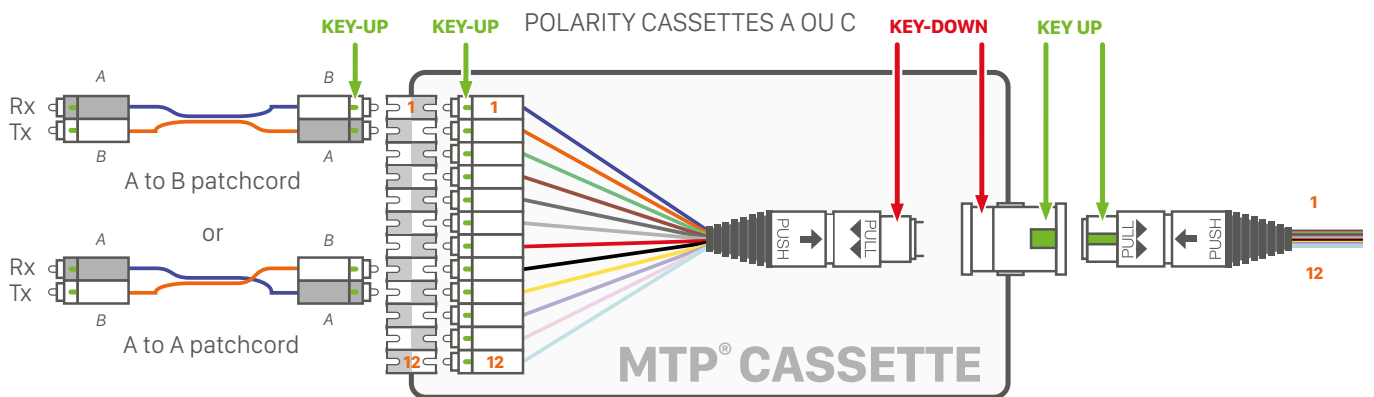
- Type A adapters with opposite key (**UP / DOWN**)
- Type B adapters with aligned key (**UP / UP**)
- Male & female connectors



As per the ANSI/TIA-568C.0, three cabling methods can assure the polarity on the optical link.



Principle of polarity over 12 fibers



MTP® IS A BRAND NAME OF US CONEC LTD.

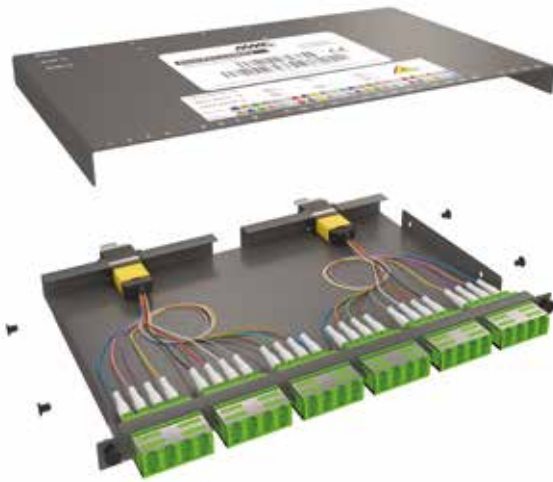
DC CASSETTE **BASE 8, BASE 12, BASE 24**

- Type A adapters with opposite key (**UP / DOWN**)
- Type B adapters with aligned key (**UP / UP**)
- Male & female connectors



Ref : DCK7MTP6LCAQS2S8

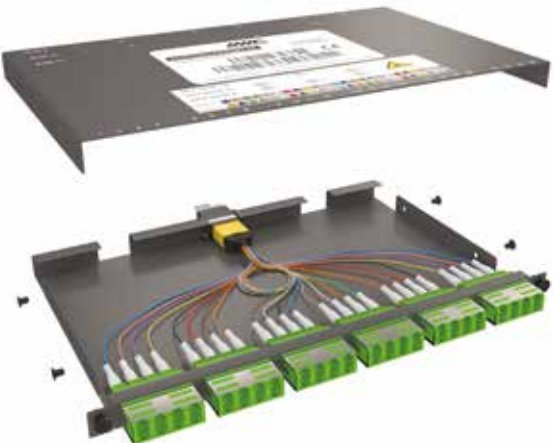
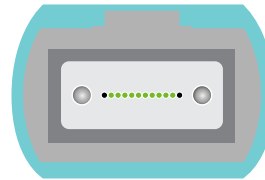
Base 8 - 40G



Ref : DCK7MTP06LCAQS

Base 12 - 100G

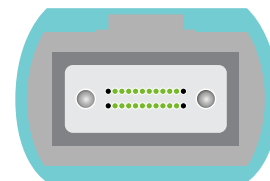
- 1 MTP 12fo :
 - 10 x 10G Tx
- 1 MTP 12fo :
 - 10 x 10G Rx



Ref : DCK7MTP6LCAQS2S4

Base 24 - 100G

- 1 MTP 24fo :
 - 10 x 10G Tx
 - 10 x 10G Rx



12/24 FO MTP CASSETTES **BASE 12 FOR CH1U**



ON REQUEST



+ ADVANTAGES

- Loaded MTP® cassettes 24 FO for CH1U panel
- Plug and play system for saving time installation
- ID label holders on front plate

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)

Standards

- MULTIMODE - IEC 60793-2-10 : A1a 2(om3) A1a 3(om4), A1a4 (om5)
- SINGLEMODE - IEC 60793-2-50 : B1.3 (oS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced)

Characteristics

DIMENSIONS	width 107.8 mm x depth 109.4 mm x height 25.1 mm
MATERIAL	Steel sheet 1.2 mm with powder coating RAL 7016
FEATURES	Cassettes MTP® pre terminated with 6 or 12 adapters and fan-out
LOCKING SYSTEM	2 x push-pull buttons (snap latches)

Properties

MECHANICAL	Net weight (unloaded)	from 0.06 kg to 0.10 kg
OPTICAL	Compatible adapters	SC, LC
	Compatible fiber	all types MM & SM
ENVIRONMENTAL	Temperature range	-5°C to +40°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
Q yyyy www	Steel cassette 12 FO preterminated MTP® Plug & Play	Unit
CAMTP 6A yyyy wwwP	ABS cassette 24 FO preterminated MTP® Plug & Play	Unit
CAMTP 12A yyyy www	Steel cassette 24 FO preterminated MTP® Plug & Play	Unit

Replace yyyy by the type of adapters: STS, FCS, SCS, LCD, STD, FCD, SCD, LCQ
 Replace www by the pigtail performances:: OM3; OM4, OM5, OS2

OPTICAL SLIDING TC PANEL



+ ADVANTAGES

- Including cable management
- Easy access to the panel
- Panel with good depth to make easier the splicing operation
- Solution Plug & Play Solution on request

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)

Standards

- IEC 60793-2-10 : A1a 2(om3), A1a 3(om4), A1a4 (om5)
- IEC 60793-2-50 : B1.3 (oS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced)

Characteristics

DIMENSIONS	Width 482.6 mm (19") x depth 238 mm x height 44 mm
MATERIAL	Steel sheet 1.2 mm with powder coating RAL 7016
FEATURES	Factory assembled & fully loaded fiber panel on request
SPLICING	Fusion, with heathshrinks

Properties

MECHANICAL	Net weight (unloaded)	2.5 kg
OPTICAL	Compatible adapters	ST, SC, LC, FC
	Compatible fiber	All types MM & SM 48 ST, SC, FC - 96 LC
ENVIRONMENTAL	Temperature range	-10°C to +40°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
TC 1U 24 SCSLCD	Unloaded TC panel for 24 adapters SCS, LCD	Unit
TC 1U 24 SCDLCQ	Unloaded TC panel for 24 adapters SCD, LCQ	Unit
TC U xx A yyyy wwww	TC panels loaded with adapters	Unit
TC U xx P yyyy zzz	Ready to splice loaded TC panels	Unit

Replace xx by the number of adapters : form 1 to 24

Replace yyyy by the type of adapters: SCS, LCD, SCD, LCQ

Replace wwww by the colored of adapters: MUL (beige) MONO (Blue for UPC, green for APC) OM3 (aqua) OM4 (Erica), OM5 (Lime green)

Replace zzz by the pigtails performances : OM3; OM4, OM5, OS2

1U CABLE MANAGER DC



+ ADVANTAGES

- Cable manager for high capacity cord
- Removable front door for easy access
- 2 side rings for optical patch cord management

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)

Standards

- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10

Characteristics

DIMENSION	Outer dimensions width 482.6 mm x depth 80 mm x height 43.5 mm Useful dimensions width 415 mm x depth 79.6 mm x height 40 mm
MATERIAL	Steel sheet 1.2 mm with powder coating RAL 7016
FEATURES	cable management
LOCKING	2 x push-pull buttons

Properties

MECHANICAL	Net weigh (unloaded)	0.8 kg
	Ring capacity	216 patchcords of Ø 2 mm or 96 patchcords of Ø 3 mm
OPTICAL	Compatible fiber	All types
ENVIRONMENTAL	Temperature range	-10°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
DC MANAGER 1U	1U cable ring manager for patchcords	Unit

FIBER SPOOLER



+ ADVANTAGES

- Complete kits to route fibers inside panels
- Protects the bending radius of 30mm of fibers
- Can be splitted into 4 parts
- Stackable

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)

Standards

- IEC 60793-2-10 : A1a 2(om3), A1a 3(om4), A1a4 (om5)
- IEC 60793-2-50 : B1.3 (oS2>), G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (réduit)

Characteristics

DIMENSION	Ø 80 mm (base) Ø 60 mm (tray) x heigh 30 mm
MATERIAL	ABS compound
FEATURES	Kit to organize the routing of fibers inside panels

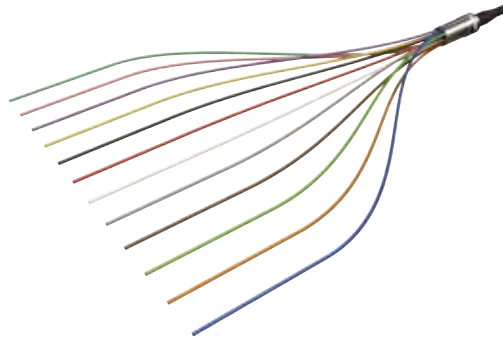
Properties

MECHANICAL	Net weigh (unloaded)	0.032 kg/spooler
	Bending radius	30 mm
ENVIRONMENTAL	Temperature range	-5°C to +40°C

Ordering informations

PART NUMBER	DESCRIPTION	PACKING
48MKS	2 bases + 2 trays + 1 PG 13.5 cable gland + cable ties + screws	Unit
48SPOOLERKIT	2 bases + 2 trays	Unit
48SPOOLERTRAY	2 additional trays to be stacked on 2 bases	Unit

DC & MICRO FAN OUT



+ ADVANTAGES

- Direct connect 900 µm connectors to 250 µm
- Suitable for central tubes from Ø 3 to Ø 4.5 mm
- DC version for DC splice cassette 12 & 24 cores
- Micro for transformer panel 12 & 24 cores

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)

Standards

- OPTICAL SYSTEM : ISO 11801 ED2.2 EIA/TIA568-C.3
- CECC BFOC 86260, Bellcore / Telcordia

Characteristics

MATERIAL	Stainless steel
TUBING	Standard : 12 colored 900 µm
CRIMP RING	Metal

Properties

MECHANICAL	Dimensions :	
	DC FANOUT KIT 12C	42 x 17 x 6.2 mm
	DC FANOUT K24C	42 x 25.6 x 6.2 mm
	MICRO FANOUT KIT 12C	38.5 x Ø 11.8 mm
	MICRO FANOUT KIT 24C	38.5 x Ø 14.8 mm
	Tensile traction	45N
	Crush resistance	52N
	Bending radius	13 mm
ENVIRONMENTAL	Temperature range	-10°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
DC FANOUT KIT 12C	DC fanout kit - spreader for 12 fiber	Unit
DC FANOUT KIT 24C	DC fanout kit - spreader for 24 fiber	Unit
48CRIMPTOOLUNIV	Crimp tool for DC fanout kits	Unit
MICRO FANOUT KIT 12C	Micro fanout kit - spreader for 12 fiber	Unit
MICRO FANOUT KIT 24C	Micro fanout kit - spreader for 24 fiber	Unit
48CRIMPTOOLMICRO	Crimp tool for Micro Fanout kits	Unit

SPLICING CASSETTE 12-24-36 CORES



+ ADVANTAGES

- 12, 24, 36 cores per splice cassette
- Density : up to 4 cassettes stacked on 1U height

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)

Standards

- COMPONENT : IEC 60874-14, EIA/TIA 604-3
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- CECC, Telcordia (Bellcore)

Characteristics

DIMENSION	12 cores: width 150 mm x depth 97 mm x height 80 mm 24 cores: width 220 mm x depth 97 mm x height 80 mm 36 cores: width 230 mm x depth 152 mm x height 80 mm
FEATURES	Stackable splice trays 12/24/36 cores For 40/45/60 mm heatshrinks With transparent cover Color coded ID label
MATERIAL	Green ABS Pantone 368C

Properties

MECHANICAL	Net weight	0.09 kg
	Compatible heatshrinks	40, 45 or 60 mm
	Cable entry for cable ties	4 (2 each side)
ENVIRONMENTAL	Temperature range	-5°C to +60°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48K712F01598	Splice tray for 12 heat shrinks 15 x 9.7 x 0.8 cm	Unit
48K724F02298	Splice tray for 24 heat shrinks 22 x 9.7 x 0.8 cm	Unit
48K736F023158	Splice tray for 36 heat shrinks 23 x 15.2 x 0.8 cm	Unit

HEATSHRINKS



+ ADVANTAGES

- Shrinkable splice fusion protection tubes
- Steel pin strenght member EVA tube
- 40, 45 & 60 mm for all splicers

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)

Standards

- COMPONENT : IEC 60874-14, EIA/TIA 604-3
- OPTICAL SYSTEM : ISO 11801 ED 2.2, EIA/TIA 568-C.3
- Mil-I-23053/ 5 class 2
- BS 2056 Type 302 S 26), BT-RC-6959BR
- Bellcore GR 1380

Characteristics

DIMENSION	Cross section 2.4 - 2.2 mm +/- 0.1 mm
FEATURES	Transparent protection tube heat-shrinkable for melting point Lengths 40/45/60 mm
MATERIALS	Heatshrinkable Polyolefin tube ID 2.4-2.2 mm Transparent EVA (Ethylene vinyl Acetate) 1.2 - 1.0 mm stainless steel pin Ø 1.10 mm

Properties

MECHANICAL	Shrink time Full recovery	60 to 120°C
	Tensile traction	10.4 mpa
	Melting point	67°C
ENVIRONMENTAL	Temperature range	-50°C to +125°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
MANCHONEPI45150	Heat shrink splice protection tube 1.0/2.2 mm x length 45 mm	Pack of 50
MANCHONEPI60150	Heat shrink splice protection tube 1.0/2.2 mm x length 60 mm	Pack of 50
MANCHONEPISSURE	Heat shrink splice protection tube 1.2/2.4 mm x length 40 mm	Pack of 50
MANCHONEPISSUR60	Heat shrink splice protection tube 1.2/2.4 mm x length 60 mm	Pack of 50

PIGTAILS



+ ADVANTAGES

- Compatible with central loose tube fiber cables
- Suitable for central tubes from Ø 2 mm to Ø 4 mm
- Semi tight buffer

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)
- FTTH (Fiber-To-The-Home)
- WAN (Wide Area Network)

Standards

- Multimode : IEC 60793-2-10 : A1a 2(om3), A1a 3(om4), A1a.5 (OM5)
 Singlemode : IEC 60793-2-50 : B1.3 (oS2), G652 D), B6 a (G657A)
- SYSTEM : ISO 11801 Edition 2.2 TIA568-C.3
 - COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10, ECC BFOC 86260, Bellcore/Telcordia GR-326

Characteristics

CONNECTOR TYPES POLISHING QUALITY	SC, LC, UPC (other on request) Multimode : UPC; Singlemode : UPC, APC 8°
CONNECTOR MATERIAL	Composite
BOOTS MATERIAL	Multimode : beige - Singlemode : blue, green Multimode : beige - Singlemode : blue, green
IDENTIFICATION	900µm semi tight, LSZH Flag sticker

Properties




















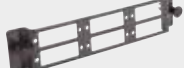








MECHANICAL	Insertion cycle	> 1000
	Vibration	As per IEC 61300-2-2 As per IEC 61300-2-1
	Ferule material	Ceramic zirconia (ZrO2)
OPTICAL	Size of the ferule	Singlemode 125/126µm Multimode 127/128µm
	Return loss (typical)	Multimode 0.35dB Singlemode 0.65dB
	Insertion loss (typical)	0.25dB
ENVIRONMENTAL	Temperature range	-10°C + 65°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
PIG yyy 2 zzz	Individual Pigtail xxx 2m, YYY semi tight buffered	Unit
PIG yyy 2 zzz B12	Pack of 1 x 12 colored pigtails xxx 2m, YYY semi tight buffered	Unit
PIG yyy 2 zzz B2X6	Pack of 2 x 6 colored pigtails xxx 2m, YYY semi tight buffered	Unit

Replace YYY by the type of connectors : SC, LC, SCA, LCA
 Replace ZZZ by the pigtail performances : OM3, OM4, OM5, OS2, A2 (G657A2)
 Note : Please add «TB» at the end of P/N for tight buffered

SELECT YOUR ADAPTERS

FRONT PANEL FOR CH1U OR LGX MODULES		SCS	SCD	LCD	LCQ	STD
 FU1U36SCDLCQDL	 LXU06SCDLCQ	-	 48SMTSCDFL	-	 48SMTLCQFL  48SMTLCQITFL (laser protection)	-
 FU1U24SCSLCD	 LXU12SCSLCD	 48SMTSCSFL	-	 48SMTLCDFL	-	-
 FU1U48SCSLCD	 LXU12SCSLCD	 48SMTSCSFL	-	 48SMTLCDFL	-	-
 FU1U72SCSLCDDL	-	 48SMTSCSISSFL (inner shutter)	-	 48SMTLCDFL	-	-
-	 LXU12SCSFLZ	 48SMTSCSFLZ (laser protection)	-	-	-	-
 FU1U24SCDLCQ	 LXU06STDFCD	-	 48SMTSCD	-	 48SMTLCQ	 48SMTSTDB
 FU1U24SCSLCD	-	 48SMTSCS  48SMTSCSISS (inner shutter)	-	 48SMTLCDFL	-	 48SMTSTSB

The references of the above adapters are singlemode UPC
For all other versions, see the selection guide below.

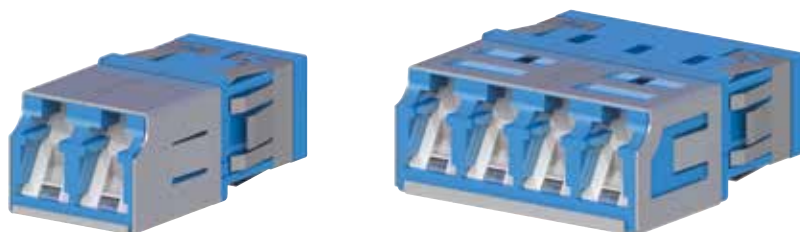
COMPOSE THE REFERENCES

48	XX	T	XXXX	XX ou XXX	XX	XX	XX
Type	Alignment	Protection	Screwless	Laser	Color		
SM singlemode	UPC	Shutter	FL	-	B, BE		
MM multimode	APC	Tongue	FL	-	B, BE		
		Inner shutter	FL	-	B, BE		
ST	STS	-	FL	-	A, M, LG		
	STAS	-	FL	-	A, M, LG		
FC	STD	-	FL	-	-		
	STAD	-	FL	-	-		
SCS	FCS	-	FL	Default settings	A, M, LG		
	FCD	-	FL	Default settings	-		
	SCS	-	FL	LZ	-		
	SCAS	Default settings	FL	-	-		
SCD	SCS	-	FL	-	A, M, LG		
	SCAS	IT	FL	Default settings	A, M, LG		
	SCAS	-	FL	Default settings	-		
LC	SCD	-	FL	Default settings	A, M, LG		
	SCAD	-	FL	Default settings	A, M, LG		
	SCAD	-	FL	Default settings	-		
	LCD	-	FL	-	A, EV, LG		
	LCAD	-	FL	Default settings	A, EV, LG		
	LCAD	IS	FL	Default settings	A, EV, LG		
LCQ	LCAQ	-	FL	-	A, M, LG		
	LCAQ	IT	FL	Default settings	A, M, LG		
	LCAQ	-	FL	Default settings	A, M, LG		
	LCAQ	IS	FL	Default settings	A, M, LG		

LC SHUTTERED ADAPTERS



ON REQUEST



+ ADVANTAGES

- Dedicated for Data Centers & Ultra High Density
- Equipped with inner shutter and laser protection
- Available with flange or flangeless

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- FTTH (Fiber-To-The-Home)
- WAN (Wide Area Network)

Standards

- COMPONENT : IEC 61754-20, EIA/TIA 604-10-B ISO/IEC 24764
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA568-C.3
- COMPATIBILITY : IEC 60874-10-B, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia

Characteristics

DIMENSION	Stainless steel inner shutter Dplx : W 29.4 mm x D 12.92 mm x H 9.4 mm Quad : W 29.4 mm x D 25.42 mm x H 9.4 mm Individual inner shuttered doors Dplx : W 29.2 mm x D 13.6 mm x H 11.4 mm Quad : W 29.2 mm x D 26.6 mm x H 11.4 mm
SLEEVE ALIGNMENT	Zirconium ceramic 1.25 mm UPC (Ultra polished) & APC (Angle Polished)
HOUSING	Singlemode UPC : blue Singlemode APC : green Multimode : beige, Aqua (OM3-OM4) Magenta purple (OM4), Lime green (OM5)
INSERTION FIXATION	2 x M2 screws and/or snap on with metal clip

Properties

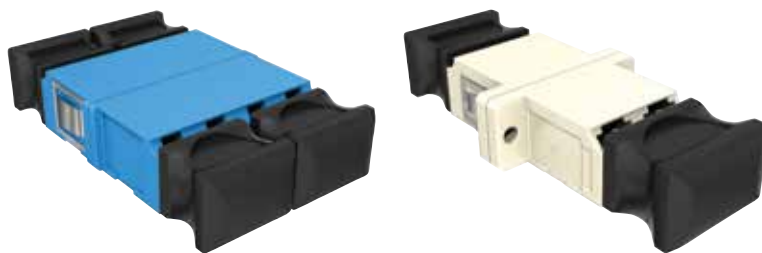
MECHANICAL	Mating cycles	> 1000 (IEC 61300-2-2)
	Vibration	10-55 Hz, 0.75 mm P/P = 0.2 dB (IEC 61300-2-1)
	Traction	> 1N - 2.5N
OPTICAL	Insertion loss	Multimode 0.20 dB to 0.3 dB Singlemode 0.10 dB to 0.2 dB
ENVIRONMENTAL	Temperature range	-40°C to +80°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48 xx T LC yy IS FL ww	LC xx y w adapter flangeless with individual doors laser & dust protection	Pack of 6
48 xx T LC yy IT ww	LC xx y w adapter with internal tongue in metal laser-protected metal	Pack of 6
48 xx T LC yy IT FL ww	LC xx y w adapter flangeless with internal metal tongue laser protection	Pack of 6

Replace XX by the type of adapters : MM for multimode or SM for singlemode
 Replace YY by the type of adapters : D for LCD, Q for LCQ, AD for LCAD, AQ for LCAQ
 Replace WW by color of the adapters: A (aqua) for OM3 & OM4, EV for Erica Violet (OM4), LG (OM5) for Lime Green
 NB : MM is beige, SM-UPC is blue and SM-APC is green by default

LC ADAPTERS



+ ADVANTAGES

- Available with flange or flangeless
- Delivered with flexible duplex dustcaps

Applications

- LAN (Local Area Network),
- CAN (Campus Area Network)

Standards

- COMPONENT : IEC 61754-20, EIA/TIA 604-10-B ISO/IEC 24764
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA568-C.3
- COMPATIBILITY : IEC 60874-10-B, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia

Characteristics

DIMENSION	Dplx : w 29.3 mm x d 12.75 mm x h 9.3 mm Quad : w 29.2 mm x d 26 mm x h 9.3 mm
SLEEVE ALIGNMENT	Zirconia ceramic 1.25 mm UPC (ultra polished) & APC (angle polished)
HOUSING	Singlemode UPC : blue Singlemode APC : green Multimode : beige
INSERTION FIXATION	2 x M2 screws and/or snap on with metal clip

Properties

MECHANICAL	Mating cycles	> 1000 (IEC 61300-2-2)
	Vibration	10-55 Hz, 0.75 mm P/P = 0.2 dB (IEC 61300-2-1)
	Retention force	> 1N - 2.5N
OPTICAL	Insertion loss	MM 0.20 dB to 0.3 dB SM 0.10 dB to 0.2 dB
ENVIRONMENTAL	Temperature range	-40°C to +80°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48 xx T LC yy ww	LC xx y w adapter	Pack of 6
48 xx T LC yy FL ww	LC xx y w adapter flangeless	Pack of 6

Replace XX by the type of adapters : MM for multimode or SM for singlemode
 Replace YY by the type of adapters : D for LCD, Q for LCQ, AD for LCAD, AQ for LCAQ
 Replace WW by color of the adapters: A (aqua) for OM3 & OM4, EV for Erica Violet (OM4), LG (OM5) for Lime Green
 NB : MM is beige, SM-UPC is blue and SM-APC is green by default

OPTICAL CONNECTORS

SC ADAPTERS



+ ADVANTAGES

- Available in MM, SM, UPC and APC versions, SM, UPC et APC
- Available in simplex version
- With internal doors for protection against laser and dust

Applications

- LAN (Local Area Network),
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- WAN (Wide Area Network)

Standards

- COMPONENT : IEC 60874-14, EIA/TIA 604-3-B
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-10-B, IEC 61754-4, FOCIS-3
- CECC BFOC 86260, Bellcore/Telcordia

Characteristics

DIMENSION	Inner saloon shutters (ISS) Splx : W 30.75 mm x D 12.80 mm x H 9.33 mm Inner laser protection (FLLZ) Splx : W 27.5 mm x D 14.8 mm x H 10.9 mm
SLEEVE ALIGNMENT	Zirconia ceramic 1.25 mm UPC (Ultra-polished) & APC (Angle polished)
HOUSING	Composite body
HOUSING COLORS	Singlemode UPC : Blue Singlemode APC : Green Multimode : Beige
INSERTION FIXATION	Push-pull 2 x M2 screws and/or snap on with metal clip

Properties

MECHANICAL	Mating cycles	> 1000 (IEC 61300-2-2)
	Vibration	10-55 Hz, 0.75 mm P/P = 0.2 dB (IEC 61300-2-1)
	Retention force	> 2N - 5.9N
OPTICAL	Insertion loss	MM 0.20 dB to 0.3 dB SM 0.10 dB to 0.2 dB
ENVIRONMENTAL	Temperature range	-40°C to +80°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48 xxT SC yy ISS ww	SC xx y w adapter with individual doors internal shutters against the laser	Pack of 6
48 xxT SC yy ISS FL ww	SC xx y w adapter screwless with individual doors internal shutters against the laser	Pack of 6

Replace XX by the type of adapters : MM for multimode or SM for singlemode
 Replace YY by the type of adapters : S for SCS, D for SCD, AS for SCAS, AD for SCAD
 Replace WW by color of the adapters: A (aqua) for OM3 & OM4, EV for Erica Violet (OM4), LG (OM5) for Lime Green
 NB : MM is beige, SM-UPC is blue and SM-APC is green by default

SC ADAPTERS



+ ADVANTAGES

- Available in MM, SM UPC and APC versions
- Available with flange and flangeless

Applications

- LAN (Local Area Network),
- CAN (Campus Area Network)
- SAN (Storage Area Network)
- MAN (Metropolitain Area Network)
- FTTH (Fiber-To-The-Home)

Standards

- COMPONENT : IEC 60874-14, EIA/TIA 604-3-B
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-10-B, IEC 61754-4, FOCIS-3
- CECC BFOC 86260, Bellcore/Telcordia

Characteristics

DIMENSION	Splx : W 22 mm x D 9.3 mm x H 3 mm Dplx : W 35 mm x D 9.3 mm x H 3 mm Splx FL : W 16 mm x D 9.3 mm x H 3 mm Dplx FL : W 27.75 mm x D 9.3 mm x H 3 mm
ALIGNMENT	Zirconia ceramic 2.5 mm UPC (Ultra polished) & APC (Angle Polished)
HOUSING	Composite body
HOUSING COLORS	Singlemode UPC : blue Singlemode APC : green Multimode : beige
INSERTION FIXATION	Push-pull 2 x M2 screws and/or snap on with metal clip

Properties

MECHANICAL	Mating cycles	> 1000 (IEC 61300-2-2)
	Vibration	10-55 Hz, 0.75 mm P/P = 0.2 dB (IEC 61300-2-1)
	Retention force	> 1N - 2.5N
OPTICAL	Insertion loss	MM 0.20 dB to 0.3 dB SM 0.10 dB to 0.2 dB
ENVIRONMENTAL	Temperature range	-40°C to +80°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48 xx T SC yy ww	SC xx y w adapter	Pack of 6
48 xx T SC yy FL ww	SC xx y w adapter flangeless	Pack of 6

Replace XX by the type of adapters : MM for multimode or SM for singlemode
 Replace YY by the type of adapters : S for SCS, D for SCD, AS for SCAS, AD for SCAD
 Replace WW by color of the adapters: A (aqua) for OM3 & OM4, EV for Erica Violet (OM4), LG (OM5) for Lime Green
 NB : MM is beige, SM-UPC is blue and SM-APC is green by default

OPTICAL CONNECTORS

SELECT YOUR PATCHCORDS

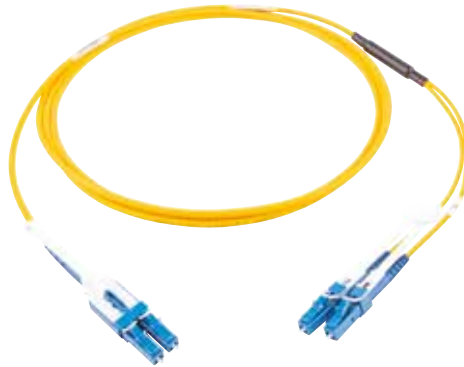
NETWORKS	INSTALLATION	STRONG POINTS	CABLE TYPE	PAGE
LAN Local area	Patching Patchcords	Traction ★ ★ ★ Crush ★ ★ ★	D-Zipcord duplex Scindex	231
LAN	Bypass	Traction ★ ★ ★ Crush ★ ★ ★	FD reinforced jacket	232
Industrial	Harsh environments Mechanical risk	Traction ★ ★ ★ Crush ★ ★ ★	ARD (Army Round Duplex)	233
Industrial	Harsh environments Mechanical risk	Traction ★ ★ ★ Crush ★ ★ ★	Army Duplex	on demand
Data center	Overcrowded racks Place between 2 racks	Traction ★ ★ ★ Crush ★ ★ ★	LED	227
Data center	High density racks	Flexibility ★ ★ ★	LBSB (Extra soft and short sleeves)	228
Data center	High density rack Mechanical risk	Flexibility ★ ★ ★	LBUD (Extra soft and 1 LC uniboot sleeve)	229
Data center	Ultra high density racks	Flexibility ★ ★ ★	UPPTR (2 reversible extractable uniboot)	226
Data center	Ultra high density racks	Flexibility ★ ★ ★	UPPTS (1 extractable uniboot LC and 2 extractable simplex)	225
Data center	Ultra high density racks	Traction ★ ★ ★ Flexibility ★ ★ ★	DPPT (4 extractable LC simplex)	on demand
Telecom	Outer rack patchcords	Flexibility ★ ★ ★	SHG (Simplex High Grade) DHG (Duplex High Grade)	230

OPTICAL LINKS & CORDS

LC DPLX-SPLX PUSH PULL TAB PATCHCORDS



ON REQUEST



+ ADVANTAGES

- High density solution : easy disconnection thanks a pulling tab
- Adaptable to all polarity : reversible thanks to the simplex side
- Reliability : individual test report with RL (Return loss) & IL (Insertion loss) performance

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)

Standards

- MULTIMODE - IEC 60793-2-10 : A1a 2(om3) A1a 3(om4), A1a 4(om5)
- SINGLEMODE - IEC 60793-2-50 : B1.3 (OS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260 Bellcore/Telcordia GR-326 (reduced)

Characteristics

CONNECTOR TYPES POLISHING QUALITY	Multimode : UPC Singlemode : UPC or APC
MATERIAL CONNECTOR	Composite
COLOR OF SC/LC HOUSING	Multimode : beige, aqua, magenta, lime green Singlemode : blue, green
FERULE	Zirconia ceramic (ZrO2) Singlemode: 125/126 μm Multimode: 127/128 μm

Properties

MECHANICAL	Mating cycles	> 500 (IEC 61300-2-2)
	Vibration	(IEC 61300-2-1)
	Crush resistance	300 - 500 N / dm (short term)
OPTICAL	Bending radius	Multimode : 7.5 mm Singlemode : 15-20 mm
	Return loss	Multimode : 35 dB Singlemode : 65 dB
	Insertion loss	de 0.15 to 0.30 dB
ENVIRONMENTAL	Plage de températures	-40°C to +85°C

Ordering information

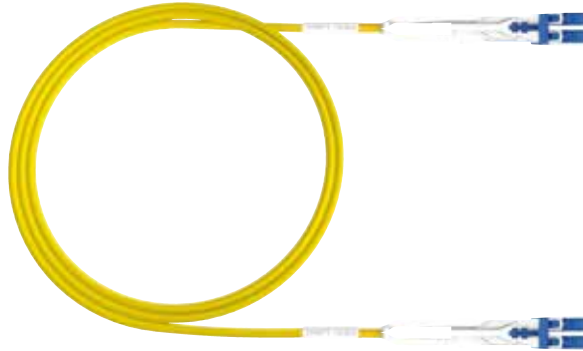
PART NUMBER	DESCRIPTION	PACKING
J LC LC yyy UPPTS OM3	Extractible duplex multimode patch cord push-pull tab LC OM3 LSZH	Unit
J LC LC yyy UPPTS OM4	Extractible duplex multimode patch cord push-pull tab LC OM4 LSZH	Unit
J LC LC yyy UPPTS OM5	Extractible duplex multimode patch cord push-pull tab LC OM5 LSZH	Unit
J xxx xxx yyy UPPTS OS2	Extractible duplex singlemode patch cord push-pull tab LC OS2 LSZH	Unit

Replace xxx letter by the type of connector : LC, LCA (LC-APC)
Replace yyy letter by the lengths : from 1 to 10 m (other on demand)

UNIBOOT PUSH PULL TAB LC PATCHCORDS



ON REQUEST



+ ADVANTAGES

- LC duplex patchcords 3 mm for data centers with push-pull extraction
- Reversible for different polarity
- Individual test report with RL (Return loss) & IL (Insertion loss)

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)

Standards

- MULTIMODE - IEC 60793-2-10 : A1a 2(om3), A1a 3(om4), A1a 4(om5)
- SINGLEMODE - IEC 60793-2-50 : B1.3 (OS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260 Bellcore/Telcordia GR-326 (reduced)

Characteristics

CONNECTOR TYPES POLISHING QUALITY	LC Multimode : UPC Singlemode : UPC or APC
MATERIAL OF CONNECTOR	Composite
COLOR OF HOUSING	Multimode : beige, Aqua, Magenta Singlemode : blue, green
FERULE MATERIAL	Zirconia ceramic (ZrO2) Singlemode 125/126 µm Multimode 127/128 µm

Properties

MECHANICAL	Mating cycles	> 1 000 (IEC 61300-2-2)
	Vibration	(IEC 61300-2-1)
	Crush resistance	300 - 500 N / dm (short term)
OPTICAL	Bending radius	Multimode : 7.5 mm Singlemode : 15-20 mm
	Return loss	Multimode 35 dB Singlemode 65 dB
	Insertion loss	De 0.15 to 0.30 dB
ENVIRONMENTAL	Temperature range	-40°C to +85°C

OPTICAL LINKS & CORDS

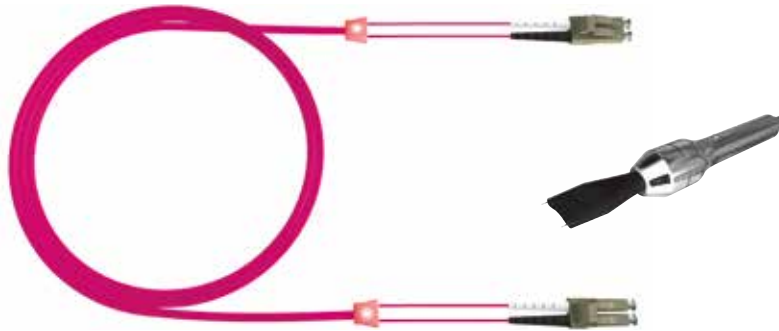
Ordering information

PART NUMBER	DESCRIPTION	PACKING
J LC LC yyy UPPTR OM3	Round duplex uniboot patchcords LC OM3 with push-pull tab reversible LSZH	Unit
J LC LC yyy UPPTR OM4	Round duplex uniboot patchcords LC OM4 with push-pull tab reversible LSZH	Unit
J LC LC yyy UPPTR OM5	Round duplex uniboot patchcords LC OM5 with push-pull tab reversible LSZH	Unit
J xxx xxx yyy UPPTR OS2	Round duplex uniboot patchcords LC OS2 with push-pull tab reversible LSZH	Unit

Replace yyy letter by the lengths : from 1 to 10 m (other on demand)



LED LC PATCHCORDS FLAT DUPLEX



+ ADVANTAGES

- Easy maintenance thanks to a LED identification
- Far end is clearly visible from 2/3 m distance

Applications

- LAN (Local Area Network)
- SAN (Storage Area Network)

Standards

- MULTIMODE - IEC 60793-2-10 : A1a 2(om3), A1a 3(om4), A1a 4(om5)
- SINGLEMODE - IEC 60793-2-50 : B1.3 (OS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced), UL V-0

Characteristics

CONNECTOR TYPES POLISHING QUALITY	SC, LC Multimode : UPC; Singlemode : UPC or APC
MATERIAL OF CONNECTOR	SC, LC
COLOR OF HOUSINF	Multimode : beige Singlemode : blue, green
FERULE MATERIAL	Zirconia ceramic (ZrO2) Singlemode 125/126 μm Multimode 127/128 μm

Properties

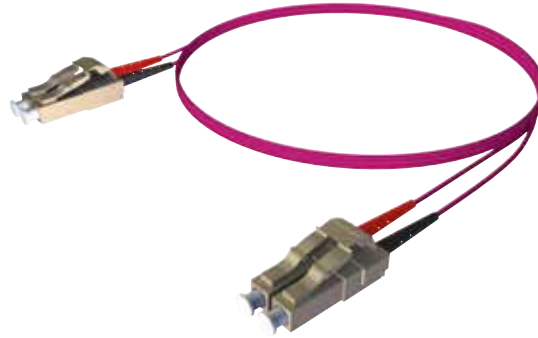
MECHANICAL	Mating cycles	> 1 000 (IEC 61300-2-2)
	Vibration	(IEC 61300-2-1)
	Crush resistance	250N - 450N (short term)
OPTICAL	Bending radius	40 mm
	Return loss	Multimode > 35 dB Singlemode > 40 dB
	Insertion loss	Multimode 0.35 dB
ENVIRONMENTAL	Temperature range	-40°C to +75°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
J xxx xxx yyy OM3 LED	LED sheated duplex patchcord OM3 LSZH	Unit
J xxx xxx yyy OM4 LED	LED sheated duplex patchcord OM4 LSZH	Unit
J xxx xxx yyy OM5 LED	LED sheated duplex patchcord OM5 LSZH	Unit
J xxx xxx yyy OS2 LED	LED sheated duplex patchcord OS2 LSZH	Unit
LED TOOL	LED injection tool	Unit
LED COIN	Spare coin cell for led activation tool	Unit

Replace xxx letter by the type of connector : SC, LC, SCA (SC-APC), LCA (LC-APC)
 Replace yyy letter by the lengths : from 1 to 20 m (other on demand according to a maximum of 200 m)

UNIVERSAL SCINDEX PATCHCORDS



+ ADVANTAGES

- Simplex or zipcord duplex 3 mm patchcords for universal purpose
- Individual test report with RL (Return loss) & IL (Insertion loss) performance

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)

Standards

- MULTIMODE - IEC 60793-2-10 : A1a 2(om3), A1a 3(om4), A1a 4(om5)
- SINGLEMODE - IEC 60793-2-50 : B1.3 (OS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260 Bellcore/Telcordia GR-326 (reduced)

Characteristics

CONNECTOR TYPES POLISHING QUALITY	SC, LC, (other on request) Multimode : UPC Singlemode : UPC or APC
MATERIAL OF CONNECTOR	Composite
COLOR OF HOUSING	Multimode : beige Singlemode : blue, green
FERULE MATERIAL	Zirconia ceramic (ZrO2) Singlemode 125/126 µm Multimode 127/128 µm

Properties

MECHANICAL	Mating cycles	> 1000 (IEC 61300-2-2)
	Vibration	(IEC 61300-2-1)
	Tensile load	250N - 450N (short term)
	Crush resistance	1000N / dm
OPTICAL	Bending radius	40 mm
	Return loss	Multimode > 35 dB Singlemode > 65 dB
	Insertion loss	0.3 dB
ENVIRONMENTAL	Temperature range	-20°C to +60°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
J xxx xxx yyy D OM3	Duplex scindex patchcords OM3 LSZH	Unit
J xxx xxx yyy D OM4	Duplex scindex patchcords OM4 LSZH	Unit
J xxx xxx yyy D OM5	Duplex scindex patchcords OM5 LSZH	Unit
J xxx xxx yyy D OS2	Duplex scindex patchcords OS2 LSZH	Unit

Replace xxx letter by the type of connector : SC, LC, SCA (SC-APC), LCA (LC-APC),
Replace yyy letter by the lengths : from 1 to 10 m (other on demand)

FLAT DUPLEX PATCHCORDS



ON REQUEST



+ ADVANTAGES

- Flat duplex 2.8 x 5.6 mm patchcords for inter cabinets or riser links
- Ideal for links beyond 10 m, up to 50 m
- Reliability : individual test report with RL (Return loss) & IL (Insertion loss) performance

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- SAN (Storage Area Network)

Standards

- MULTIMODE - IEC 60793-2-10 : A1a 2(om3), A1a 3(om4), A1a 4(om5)
- SINGLEMODE - IEC 60793-2-50 : B1.3 (OS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced)

Characteristics

CONNECTOR TYPES POLISHING QUALITY	SC, LC, Multimode : UPC Singlemode : UPC or APC
MATERIAL OF CONNECTOR	SC, LC
COLOR OF HOUSING	Multimode : beige Singlemode : blue, green
FERULE MATERIAL	Zirconia ceramic (ZrO2) Singlemode 125/126 µm Multimode 127/128 µm

Properties

MECHANICAL	Mating cycles	> 1000 (IEC 61300-2-2)
	Vibration	(IEC 61300-2-1)
	Tensile load	250N - 450N (short term)
	Crush resistance	2 000N / dm
OPTICAL	Bending radius	40 mm
	Return loss	Multimode > 35 dB Singlemode > 40 dB
ENVIRONMENTAL	Insertion loss	0.25 dB
	Temperature range	-5°C to +60°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
J xxx xxx yyy FD OM3	Reinforced sheathing patchcords OM3 LSZH	Unit
J xxx xxx yyy FD OM4	Reinforced sheathing patchcords OM4 LSZH	Unit
J xxx xxx yyy FD OM5	Reinforced sheathing patchcords OM5 LSZH	Unit
J xxx xxx yyy FD OS2	Reinforced sheathing patchcords OS2 LSZH	Unit

Replace xxx letter by the type of connector : SC, LC, SCA (SC-APC), LCA (LC-APC)
 Replace yyy letter by the lengths : from 1 to 50 m (other on demand)

STEEL ARMORED ROUND DUPLEX PATCHCORDS



ON REQUEST



+ ADVANTAGES

- Steel armored round duplex Ø 3.2 mm for harsh environment
- Double stainless steel armor (braid on spiral tube)
- Customized lengths on request

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- TACTICAL (harsh and rodent environment)

Standards

- MULTIMODE - IEC 60793-2-10 : A1a 2(om3), A1a 3(om4), A1a 4(om5)
- SINGLEMODE - IEC 60793-2-50 : B1.3 (OS2), G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced)

Characteristics

CONNECTOR TYPES POLISHING QUALITY	ST, SC, LC Multimode : UPC; Singlemode : UPC or APC
MATERIAL OF CONNECTOR	ST : Nickel plat SC, LC : Composite
COLOR OF HOUSING	Multimode : beige Singlemode : blue, green
FERULE MATERIAL	Zirconia ceramic (ZrO2) Singlemode 125/126 µm Multimode 127/128 µm

Properties

MECHANICAL	Mating cycles	> 1000 (IEC 61300-2-2)
	Vibration	(IEC 61300-2-1)
	Tensile load	200N - 300N (short term)
	Crush resistance	3 000N / dm
OPTICAL	Bending radius	25 mm
	Return loss (typique)	Multimode > 35 dB Singlemode > 55 dB
	Insertion loss (typique)	0.20 dB
ENVIRONMENTAL	Temperature range	-40°C to +85°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
J xxx xxx yyyARD OM3	Steel armored round duplex patchcord OM3 LSZH	Unit
J xxx xxx yyyARD OM4	Steel armored round duplex patchcord OM4 LSZH	Unit
J xxx xxx yyyARD OM5	Steel armored round duplex patchcord OM5 LSZH	Unit
J xxx xxx yyyARD OS2	Steel armored round duplex patchcord OS2 LSZH	Unit

Replace xxx letter by the type of connector : ST, SC, LC, SCA (SC-APC), LCA (LC-APC)
 Replace yyy letter by the lengths : from 100m and more (other on demand)

LINK TYPE "I" IN TIGHT STRUCTURE



ON REQUEST



+ ADVANTAGES

- Saving time solution : preterminated indoor FO link with corrugated pulling protection
- Easy installation : Indoor use in protected narrow environment
- Reliability : tested with OTDR > 100 m on demand

Applications

- LAN (Local Area Network)
- ENVIRONMENT : Indoor / Universal
- PULLING CONDITIONS : To unroll
- LINK TYPES : Horizontal or vertical wiring

Standards

- MULTIMODE - IEC 60793-2-10 : A1a 2(om3) A1a 3(om4) A1a 4(om5)
- SINGLEMODE - IEC 60793-2-50 : B1.3 (OS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced), GR-409-CORE

Characteristics

CONNECTOR TYPES POLISHING QUALITY	ST, SC, LC, UPC Multimode : UPC Singlemode : UPC or APC
MATERIAL OF CONNECTOR	ST, : Nickel plated SC, LC : Composite
COLOR OF HOUSING	Multimode : beige Singlemode : blue, green
FERULE MATERIAL	Ceramic zirconia (ZrO2) Singlemode 125/126 µm Multimode 127/128 µm

Properties

MECHANICAL	Mating cycles	> 2000 (IEC 613000-2-2)
	Tensile load	400N
	Crush resistance	2000N / dm
OPTICAL	Bending radius	20 x Ø
	Return loss	Tested with OTDR (>100 m on demand)
	Insertion loss	Tested on OTDR (>100 m on demand) Tested on dB meter (<100 m)
ENVIRONMENTAL	Temperature range	-40°C to +70°C
	Fire rating	IEC 60332-1, 60332-3

Ordering information

PART NUMBER	DESCRIPTION	PACKING
P aa l yyy xxx xxx zzz	Preterminated indoor fiber link mini break LSZH	Unit

Replace aa by the number of fibers: 6 / 12 / 24 fibers
 Replace yyy by the length in meters: From 1 up to the limits of the standard
 Replace xxx by the type of connectors: UPC connectors are : ST, SC, LC,
 Replace zzz by the fiber performance: OM3, OM4, OM5, OS2 (G652D) 7A2 (G657 A2),

LINK TYPE "S" IN LOOSE TUBE STRUCTURE



ON REQUEST



+ ADVANTAGES

- Saving time solution : preterminated indoor / outdoor FO link with corrugated pulling protection
- Easy installation : Indoor use in protected narrow environment
- Reliability : tested with OTDR > 100 m on demand

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- ENVIRONMENT : Indoor / Universal / Outdoor
- PULLING CONDITIONS : Easy to pull campus antenna
- LINK TYPES : Horizontal wiring

Standards

- MULTIMODE - IEC 60793-2-10 : A1a 2(om3), A1a 3(om4) A1a 4(om5)
- SINGLEMODE- IEC 60793-2-50 : B1.3 (OS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced), GR-409-CORE

Characteristics

CONNECTOR TYPES POLISHING QUALITY	ST, SC, LC, UPC Multimode : UPC Singlemode : UPC or APC
MATERIAL OF CONNECTOR	ST, : Nickel plated SC, LC : Composite
COLOR OF HOUSING	Multimode : beige Singlemode : blue, green
FERULE MATERIAL	Ceramic zirconia (ZrO2) Singlemode 125/126 µm Multimode 127/128 µm

Properties

MECHANICAL	Mating cycles	> 2000 (IEC 613000-2-2)
	Tensile load	800N
	Crush resistance	2000N / dm
OPTICAL	Bending radius	140 mm (4 à 12 FO) 150 mm (24 FO)
	Return loss	Tested with OTDR (>100 m on demand)
	Insertion loss	Tested on OTDR (>100 m on demand) Tested on dB meter (<100 m)
ENVIRONMENTAL	Temperature range	-40°C to +70°C
	Fire rating	IEC 60332-1, 60332-3

Ordering information

PART NUMBER	DESCRIPTION	PACKING
P aa S yyy xxx xxx zzz	Standard preterminated indoor / outdoor LSZH	Unit

Replace aa by the number of fibers: 6 / 12 / 24 fibers
 Replace yyy by the length in meters: From 1 up to the limits of the standard
 Replace xxx by the type of connectors: UPC connectors are : ST, SC, LC,
 Replace zzz by the fiber performance : OM3, OM4, OM5, OS2 (G652D) 7A2 (G657 A2),

INDOOR MICRO PRETERMINATED MTP LINKS



ON REQUEST



+ ADVANTAGES

- Micro break-out Ø 250 µm with aramide and sheath Ø 3.0 mm (12 cores)
- Indoor use high density to unroll, narrow environment
- Simple sheath < 10 m,
- Double sheath LSZH >10 m, for internal use

Applications

- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)
- ENVIRONMENT : Indoor using MTP® connectivity
- PULLING CONDITIONS : Easy pulling & Uncoiling
- LINK TYPES : Between 2 racks

Standards

- IEC 60793-2-10 : A1a 2(om3) A1a 3(om4), A1a 4(om5)
- IEC 60793-2-50 : B1.3 (OS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced),GR-409-CORE

Characteristics

CONNECTOR TYPES POLISHING QUALITY	MTP® female, Standard or Elite Multimode 12c: UPC standard Multimode 24c: UPC Elite Singlemode : APC Elite
MATERIAL OF CONNECTOR	Multimode : Black Singlemode : Black / Yellow Push-Pull tab available as an option
CONSTRUCTION	Aramid or corrugated steel

Properties

MECHANICAL	Mating cycles	> 500 (IEC 613000-2-2)
	Tensile load	150N - 300N - 400N - 800N
	Crush resistance	500-1 000-5 000N / 100 mm
OPTICAL	Bending radius	≥ 30-45 mm
	Return loss	Tested with OTDR (>100 m)
	Insertion loss	Tested on OTDR (>100 m) Tested on dB meter (<100 m)
ENVIRONMENTAL	Temperature range	TRUNK : -5°C to +70°C RUG/C : -20°C to +60°C
	Fire rating	IEC 60332-1, 60332-3

Ordering information

PART NUMBER	DESCRIPTION	PACKING
MTP TRUNK xx zz yyy b	Preconnected MTP® link micro single-sheath inner liner LSZH < 10 m	Unit
MTP RUG xx zzz yyy b	Preconnected MTP® link micro single-sheath inner liner LSZH > 10 m	Unit
MTP C xx zzz yyy b	Preconnected MTP® link micro double sheath + inner corrugated steel LSZH > 10 m	Unit

Replace xx by the number of fibers: 12 / 24 fibers

Replace zzz by the length in meters : From 1 to 10 meters (MTP TRUNK), from 10m to the limit of the standard for (MTP RUG, MTP C)

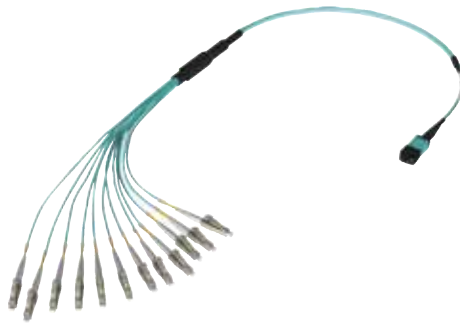
Replace yy by the type of fiber : M3 for OM3, M4 for OM4, M5 for OM5, S2 for OS2 (G652D) A2 for G657 A2) B3 for G657 B3

Replace b by 1 or 2 for 1 x MTP connector 24c or 2 x MTP 12c connector (only for MTP 24 preterms)

INDOOR MICRO PRETERMINATED MTP FAN OUT



ON REQUEST



+ ADVANTAGES

- Indoor FO link with MTP® / LC or SC
- Micro break-out Ø 3.0 mm (12fo) LSZH sheath
- Double LSZH jacket >10 m, for internal use
- Steel reinforced version Ø 5.4 mm or 6 mm

Applications

- SAN (Storage Area Network)
- MAN (Metropolitan Area Network)
- ENVIRONMENT : Indoor using MTP® connectivity
- PULLING CONDITIONS : Easy pulling & Uncoiling
- LINK TYPES : Between 2 racks

Standards

- IEC 60793-2-10 : A1a 2(om3) A1a 3(om4), A1a 4(om5)
- IEC 60793-2-50 : B1.3 (OS2>, G652 D), B6 a (G657A)
- OPTICAL SYSTEM : ISO 11801 ED2.2 EIA/TIA 568-C.3 EN 50173-1: 2002
- COMPATIBILITY : IEC 60874-14, IEC 61754-20, FOCIS-10
- CECC BFOC 86260, Bellcore/Telcordia GR-326 (reduced), GR-409-CORE

Characteristics

CONNECTOR TYPES POLISHING QUALITY	MTP® male, Standard or Elite Multimode 12c: UPC standard Multimode 24c: UPC Elite Singlemode : APC Elite
FEATURES	Multicore patchcord 1 side is MTP®, the other side is SC, LC,
CONSTRUCTION	Aramid or corrugated steel

Properties

MECHANICAL	Mating cycles	> 500 (IEC 613000-2-2)
	Tensile load	400N - 800N
	Crush resistance	1 000-5 000N / 100 mm
OPTICAL	Bending radius	≥ 30-45 mm
	Return loss	Tested with OTDR (>100 m)
	Insertion loss	Tested on OTDR (>100 m) Tested on dB meter (<100 m)
ENVIRONMENTAL	Temperature range	TRUNK : -5°C to +70°C RUG/C : -20°C to +60°C
	Fire rating	IEC 60332-1, 60332-3

Ordering information

PART NUMBER	DESCRIPTION	PACKING
MTP FAN xx zz yy aaa b	Preconnected MTP indoor link, double sheath LSZH < 10 m	Unit
MTP FAN C xx zz yy aaa b	Preconnected MTP indoor link, double steel reinforced sheath LSZH > 10 m	Unit

Replace xx by the number of fibers : 12 / 24 fibers

Replace zzz by the length in meters : From 1 to 10 m (MTP® FAN), from 10 m up to the limit of the standard for (MTP® FAN C)

Replace yy by the type of fiber: M3 for OM3, M4 for OM4, M5 for OM5, S2 for OS2 (G652D) A2 for G657 A2) B3 for G657 B3

Replace aaa by the connector : UPC : SC, LC - APC : SCA & LCA

Replace b letter by 1 or 2 for 1 x MTP connector 24c ou 2 x MTP 12c connectors (only for MTP 24 preterms)

INDUSTRIAL HOUSING DIN RAIL



+ ADVANTAGES

- Suitable for indoor connections on DIN RAIL installation
- The stored version 48BMOM6SCDLCQI receives 6 STD, SCD or LCQ adapters
- The on-demand version 48BMOM12SCSLCDI receives 12 STS/SCS or LCD adapters
- Interconnection of tightly-structured, free or reinforced fibers
- Splice holder 2 x 6 cores

Applications

- CAN (Campus Area Network)
- FTTP (Fiber-To-The-Plant),
- ENVIRONMENT : Indoor

Standards

- OPTICAL PERFORMANCES : IEC 61754-20, IEC 61754-1 IEC 61754-7
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3

Characteristics

DIMENSIONS	W 61 mm x D 115 mm x H 113 mm
MATERIAL	Steel 12/10 Anthracite electrostatic paint, RAL7016
FEATURES	IP20 fiber wall-mounted housing DIN rail 35 mounting
INPUT	2 cable entries Ø 20mm high and low

Properties

MECHANICAL	Net weight (unloaded)	0.51 kg
	Compatible adapters	STS, SCS, LCD, SCD, LCQ
	Maximum density	24 cores (without splicing) 12 cores (with splicing)
ENVIRONMENTAL	Temperature range	-40°C to +65°C
	UV reaction	NA

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48BMOM6SCDLCQI	Optical housing on DIN rail for 6 SCD or LCQ	Unit
48BMOM12SCSLCDI	Optical housing on DIN rail for 12 SCS or LCD	Unit
48BMOM XX Z YYYY WWW	Wall-mounted DIN rail housing 12/24 fiber equipped	Unit

Replace XX by number of adapters and pigtails : 12 adapters or 24 pigtails
 Replace Z letter by A or P : A for adapters only, P for pigtails and adapters
 Replace YYYY by the type of adapters : STS, SCS, LCD, FCS, SCAS (SC-APC), LCAD (LC-APC), FCAS (FC-APC),
 Replace WWW by the performance of adapters : MULTI (beige) MONO (blue or green)
 Replace WWW by the pigtail's performance : OM3; OM4, OM5, OS2

OPTICAL WALL BOX IP65 24 CORES



+ ADVANTAGES

- Suitable for outDOOR connections
- Protects connections from water and dust
- Ready to receive 12 STS, SCS or LCD adapters
- Interconnection of tightly-structured, free or reinforced fibers
- Double-sided removable splicing cassettes

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- MAN (Metropolitan Area Network)
- FTTD (Fiber-To-The-Desk), FTTH (Fiber-To-The-Home)
- FTTA (Fiber-To-The-Antenna)
- ENVIRONMENT : Outdoor or Indoor

Standards

- OPTICAL PERFORMANCES : IEC 61754-20, IEC 61754-1 IEC 61754-7
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3

Characteristics

DIMENSIONS	W 168 mm x D 65 mm x H 210 mm
MATERIAL	ABS with paint RAL 9005 Supplied with heat-shrinkable sleeves, spiral tubing, cable ties, wall mounting accessories and key
FEATURES	IP65 fiber wall box suitable for interconnections (Routing/distribution)
INPUT	1 x 20 mm for cable entries 2 x 20 mm for cable exits

Properties

MECHANICAL	Net weight (unloaded)	0.85 kg
	Compatible adapters	STS, SCS, LCD
	Maximum density	24 cores (without splicing) 12 cores (with/without splicing)
ENVIRONMENTAL	Temperature range	-40°C to +65°C
	UV reaction	UV protection

OPTICAL BOXES IN/OUT

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48BMOP24IP65PN	IP65 wall-mounted housing, for 12/24 fibers with mounting kit and accessories	Unit
48BMOP XX Z YYYY WWW	IP65 wall-mounted housing, 12/24 fiber, equipped	Unit

Replace XX by number of adapters and pigtails : 12 adapters or 24 pigtails
 Replace Z letter by A or P : A for adapters only, P for pigtails and adapters
 Replace YYYY by the type of adapters : STS, SCS, LCD, FCS, SCAS (SC-APC), LCAD (LC-APC), FCAS (FC-APC)
 Replace WWW by the performance of adapters : MULTI (beige) MONO (blue or green)
 Replace WWW by the pigtail's performance : OM3; OM4, OM5, OS2

OPTICAL WALL BOX IP65 48 CORES



+ ADVANTAGES

- Suitable for outdoor connections
- Protects connections from water and dust
- Ready to receive 24 STS, SCS or LCD adapters
- Interconnection of tightly-structured, free or reinforced fibers

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- FTTD (Fiber-To-The-Desk), FTTH (Fiber-To-The-Home)
- FTTA (Fiber-To-The-Antenna)
- ENVIRONMENT : Outdoor or Indoor

Standards

- OPTICAL PERFORMANCES : IEC 61754-20, IEC 61754-14 IEC 61754-7
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3

Characteristics

DIMENSION	W 265 mm x D 100 mm x H 345 mm
MATERIAL	ABS with paint RAL 9005 Supplied with heat-shrinkable sleeves, spiral tubing, cable ties, wall mounting accessories and wrench
FEATURES	IP65 fiber wall box suitable for interconnections (Routing/distribution)
INPUT	2 PG16 cable glands for cable entries 2 cable inputs or outputs 20 mm 3 x 20 mm cable gland for 3 x 8 fiber outlets

Properties

MECHANICAL	Net weight (unloaded)	1.80 kg
	Compatible adapters	STS, FCS, SCS, LCD
	Maximum density	48/24 FO (without splicing) 20 FO (with splicing)
ENVIRONMENTAL	Temperature range	-40°C to +65°C
	UV reaction	UV protection

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48BMOP48IP65PN	IP65 wall-mounted housing for 24/48 fibers with mounting kit and accessories	Unit
48BMOP XX Z YYYY WWW	IP65 wall-mounted housing, 24/48 fiber equipped	Unit

Replace XX by number of adapters and pigtails : 12 adapters or 24 pigtails
 Replace Z letter by A or P : A for adapters only, P for pigtails and adapters
 Replace YYYY by the type of adapters : STS, SCS, LCD, FCS, SCAS (SC-APC), LCAD (LC-APC), FCAS (FC-APC),
 Replace WWW by the performance of adapters : MULTI (beige) MONO (blue or green)
 Replace WWW by the pigtail's performance : OM3; OM4, OM5, OS2

OPTICAL BOXES IN/OUT

OPTICAL SPLITTER 1 TO 144 CORES



+ ADVANTAGES

- Optical cable splitter on DIN RAIL or wall fixation : 1 cable up to 144 fibers
- Easy installation : can fixed up to 8 splitters on 3U panel 48MKA3U8SB
- Grounding system and grounding kit for armored cable

Characteristics

DIMENSION	Panel 3U x 19" splitter 130mm x 53mm x 33.3mm (L x W x D)
MATERIAL	Panel Steel front face not painted for grounding system Splitter steel 15/10
INPUT/OUTPUT	1 cable entry PG16 1 cable exit with removable rubber slots

Properties

MECHANICAL	Net weight (unloaded)	1.80 kg
	Compatible adapters	STS, FCS, SCS, LCD
	Maximum density	48/24 FO (without splicing) 20 FO (with splicing)
ENVIRONMENTAL	Temperature range	-40°C to +65°C
	UV reaction	UV protection

OPTICAL BOXES IN/OUT

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48MKASB1X144	Fiber optic cable splitter 1 entry to 144 fibers out	Unit
48MKA3U8SB	19" panel 3U to allow 8 splittes	Unit

FTTBOX 1U FOR 2 LGX MODULES



+ ADVANTAGES

- Wall mounting in floor box or 19" mounting on 1U
- Security : the splicing area is fully secured and locked.
- Modularity : receives 2 LGX modules - 48 cores (LCD) or 24 cores (SCS) or RJ45 and XLR for broadcast use

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- MAN (Metropolitan Area Network)
- FTTD (Fiber-To-The-Desk), FTTH (Fiber-To-The-Home)

Standards

- OPTICAL PERFORMANCES : IEC 61754-20, IEC 61754-14, IEC 61754-7
- OPTICAL SYSTEM: ISO 11801 ED2.2, EIA/TIA 568-C.3

Characteristics

DIMENSIONS	W 430 mm x D 310 mm x H 40 mm
MATERIAL	Steel sheet 12/10 with paint RAL 7016 Supplied with snake tube, cable ties, wall mounting accessories and key
FEATURES	Wall box lockable inner door - 19"
INPUT	2 x 25 mm cable glands for inner cable 2 x 20 mm inner cables or lateral rubber outlet of the optical patchcords

Properties

MECHANICAL	Net weight (unloaded)	3.4 kg
	Compatible adapters	ST, SC, LC, XLR, RJ45
	Maximum density	48 cores
ENVIRONMENTAL	Temperature range	-40°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
FTTBOX1U	FTTBox 1U not equipped for 2 LGX modules or MTP cassettes	Unit

Replace XX by number of adapters and pigtails : up to 24 adapters or 48 pigtails
 Replace Z letter by A or P : A for adapters only, P for pigtails and adapters
 Replace YYYY by the type of adapters : STS, SCS, LCD, FCS, SCAS (SC-APC), LCAD (LC-APC), FCAS (FC-APC),
 Replace WWW by the performance of adapters : MULTI (beige) MONO (blue or green)
 Replace WWW by the pigtail's performance : OM3; OM4, OM5, OS2

OPTICAL BOXES IN/OUT

FTTBOX 2U FOR 6 LGX MODULES



+ ADVANTAGES

- Wall mounting in floor box or 19" mounting on 2U
- Security : the splicing area is fully secured and locked.
- Modularity : receives 2 LGX modules - 144 cores (LCD) or 72 cores (SCS) or RJ45 and XLR for broadcast use

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- MAN (Metropolitan Area Network)
- FTTH (Fiber-To-The-Home), FTTD (Fiber-To-The-Desk)

Standards

- OPTICAL PERFORMANCES : IEC 61754-20, IEC 61754-14, IEC 61754-7
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3

Characteristics

DIMENSIONS	W 485 mm x D 285 mm x H 85 mm
MATERIAL	Steel sheet 12/10 with paint RAL 7016 Supplied with snake tube, cable ties, wall mounting accessories and key
FEATURES	Wall housing lockable inner door Sliding 19" 2U
INPUT	2 x 25 mm cable glands for inner cable 2 x 20 mm inner cables or lateral rubber outlet of the optical patchcords

Properties

MECHANICAL	Net weight (unloaded)	4.3 kg
	Compatible adapters	ST, SC, LC, XLR, RJ45
	Maximum density	144 cores
ENVIRONMENTAL	Temperature range	-40°C to +50°C

OPTICAL BOXES IN/OUT

Ordering information

PART NUMBER	DESCRIPTION	PACKING
FTTBOX2U	19" 2U unequipped wall-mounted case for 6 LGX modules or MTP cassettes	Unit

Replace XX by number of adapters and pigtails : up to 72 adapters or 144 pigtails
 Replace Z letter by A or P : A for adapters only, P for pigtails and adapters
 Replace YYYYY by the type of adapters : STS, SCS, LCD, FCS, SCAS (SC-APC), LCAD (LC-APC), FCAS (FC-APC),
 eplace WWW by the performance of adapters : MUL (beige) MONO (blue or green)
 Replace WWW by the pigtail's performance: OM3; OM4, OM5, OS2

FACEPLATE FOR USER'S OUTLET



+ ADVANTAGES

- Faceplate 45x45 for indoor multimode or singlemode FTTD application
- Horizontal or vertical mounting on a post
- Angled faceplate to save depth in the ducts

Applications

- LAN (Local Area Network)
- CAN (Campus Area Network)
- FTTD (Fiber-To-The-Desk), FTTO (Fiber to the Office)
- POL (Passive Optical Lan)
- ENVIRONMENT : Indoor

Standards

- OPTICAL PERFORMANCES : IEC 61754-20, IEC 61754-14, IEC 61754-7
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3

Characteristics

DIMENSIONS	45 mm x 45 mm
MATERIAL	Polycarbonate (PC) RAL 9010
FEATURES	Inclined faceplate for optical adapters Adapted to user outlets

Properties

MECHANICAL	Bending radius	Protected with most chutes
	Compatible adapters	STD, FCD, SCD, LCQ, STS, FCS, SCS, LCD
	Maximum density	8 cores (without splicing)
ENVIRONMENTAL	Temperature range	-10°C to +60°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
48MMP2SCD	Faceplate 45 x 45 mm for 2 x SCD or LCQ - RAL 9010	Pack of 6
48MMP2SCS	Faceplate 45 x 45 mm for 2 x SCS or LCD - RAL 9010	Pack of 6
WPF45R9003	Cover 86 x 86 mm 1 port British style - internal space 45x45 mm - RAL 9003	Unit
WP8686PR9003	Surface mount box 86 x 86 mm 1 port British style - depth 45 mm - RAL 9003	Unit

END USERS'S OUTLET FOR FTTH LINKS



+ ADVANTAGES

- User outlet for FTTH applications
- Wall or 35 mm DIN rail mounting
- Coiling of overlengths on two levels
- Allows the use of heat-shrinkable sleeves

Applications

- MAN (Metropolitan Area Network)
- FTTH (Fiber-To-The-Home)
- ENVIRONNEMENT : Outdoor (or indoor)

Standards

- OPTICAL PERFORMANCES : IEC 61754-20, IEC 61754-14 IEC 61754-7
- OPTICAL SYSTEM : ISO 11801 ED2.2, EIA/TIA 568-C.3

Characteristics

DIMENSION	W 82 mm x D 32 mm x H 90 mm Mounting distance for screws 60 mm
MATERIAL	ABS Composite with paint RAL 9010
FEATURES	Wall or 35 mm DIN rail mounting

Properties

MECHANICAL	Tensile load Bending radius	≥ 10daN ≥ 15 mm splicing cassette included
OPTICAL	Compatible adapters	SCS
	Maximum density	4 cores
ENVIRONMENTAL	Temperature range	-10°C to +60°C

OPTICAL BOXES IN/OUT

Ordering information

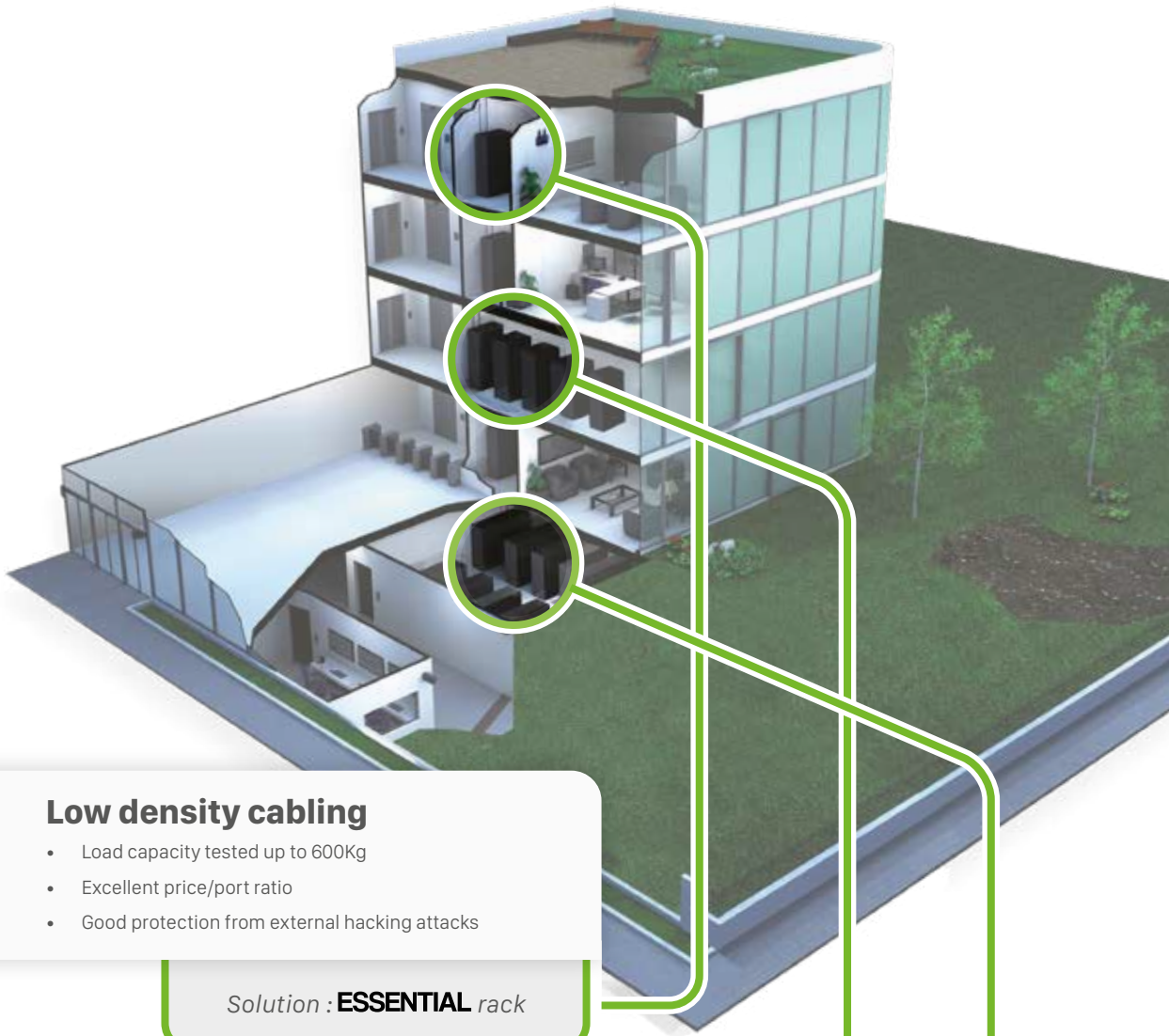
PART NUMBER	DESCRIPTION	PACKING
48FTTH4	Non-equipped housing for 2 users, accommodates 2 simplex SC APC adapters	Unit
48FTTHxCyyz	Ready-to-pull wired subscriber link with G657A2 drop cable for 1, 2 or 4 operators (ISP)	Unit

Replace x by the number of optical strands : 1, 2 or 4

Replace yy by the length in meters : 20, 30, 40, 60 or 90

Replace z by E for a link with a double-sheathed cable for partial outdoor installation.

CABINETS RANGE & ACCESSORIES



Low density cabling

- Load capacity tested up to 600Kg
- Excellent price/port ratio
- Good protection from external hacking attacks

Solution : **ESSENTIAL** rack



Technical room cabling

- Load capacity tested up to 1250 kg to support active products
- High density management
- Cable management to ensure the sustainability of the installation

Solution : **TECHNIC** rack 1000



Data centre environment

- Liading capacity tested up to 1250 kg to support servers requirements
- Optimized Top-of-Server, MoR,EoR configurations
- Perforated front and rear door to allow a better and natural ventilation

Solution : **TECHNIC** rack 1000 with perforated doors

19" CABINETS

TECHNIC RANGE



+ ADVANTAGES

- Aluminum trihedral angles and reinforced bar specially designed for a loading capacity up to 1250 kg
- Easy cable management : vertical cable management (width 800)
- Saving space solution : 12U additionally available in vertical way (width 800)
- Easy maintenance : 180° opening doors to a better accessibility on the cabinet

Characteristics

FRAME	Reinforced 2 mm steel structure Aluminium diecast tryedre
MOUNTING	Front & rear 19" mounting equipped with 3 vertical U (width 800)
FRONT DOOR	Secured and tempered glassed double door (width 800) Secured and tempered glassed single door (width 600)
BACK DOOR	Full metal double door
ROOF	Reinforced roof
CABLE MANAGEMENT	Vertical cable management
COATING	Epoxy Grey painting RAL 7016

Properties

MECHANICAL	Index protection	IP20
	Index mechanical	IK09 compliant to EN62262
ENVIRONMENTAL	Operating temperature	-5°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
TM2766	19" cabinet 27U 600 x 600 Technic 1000 range	1328 x 609 x 676	Unit
TM3388	19" cabinet 33U 800 x 800 Technic 1000 range	1595 x 809 x 876	Unit
TM4266	19" cabinet 42U 600 x 600 Technic 1000 range	1995 x 609 x 676	Unit
TM4268	19" cabinet 42U 600 x 800 Technic 1000 range	1995 x 609 x 876	Unit
TM4286	19" cabinet 42U 800 x 600 Technic 1000 range	1995 x 809 x 676	Unit
TM4288	19" cabinet 42U 800 x 800 Technic 1000 range	1995 x 809 x 876	Unit
TM42810	19" cabinet 42U 800 x 1000 Technic 1000 range	1995 x 809 x 1076	Unit

TECHNIC RANGE CABINET **PERFORATED DOORS**



+ ADVANTAGES

- Aluminum trihedral angles and reinforced bar specially designed for loading capacity up to 1250 kg
- Ventilation optimized with 80% perforation ratio
- Saving space solution : 12U additionally available in vertical way (width 800)
- Easy maintenance : 180° opening doors to a better accesibility on the cabinet

Characteristics

FRAME	Reinforced 2 mm steel structure Aluminium diecast tryedre
MOUNTING	Front & rear 19" mounting equipped with 3 vertical U
DOOR	80% perforated front and rear double door (width 800)
ROOF	Reinforced roof
CABLE MANAGEMENT	Vertical cable management
COATING	Anthracite grey RAL 7016 Epoxy painting

Properties

MECHANICAL	Index protection	IP20
	Index mechanical	IK09 Compliant to EN62262
ENVIRONMENTAL	Operating temperature	-5°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
TM4288F2PR2P	19" cabinet 42U 800 x 800 Front/Rear perforated doors Technic 1000 range	1995 x 809 x 876	Unit
TM42810F2PR2P	19" cabinet 42U 800 x 1000 Front/Rear perforated doors Technic 1000 range	1995 x 809 x 1076	Unit
TM47812F2PR2P	19" cabinet 47U 800 x 1200 Front/Rear perforated doors Technic 1000 range	2217 x 809 x 1276	Unit

19" CABINETS

ESSENTIAL6 RANGE



+ ADVANTAGES

- Aluminum trihedral angles for a loading capacity up to 650 kg thanks to 3 reinforced bars in each side
- 270° opening double doors for a better cabinet accessibility
- 4 mountings front active equipment with high depth

Characteristics

FRAME	Reinforced 2 mm steel structure Aluminium diecast tryedre
MOUNTING	Front & rear 19" mounting
DOOR	Secure and tempered glass double front door Rear panel
ROOF	Reinforced roof
CABLE MANAGEMENT	Management by adding ACRINGS6
COATING	Anthracite grey RAL 7016 Epoxy painting

Properties

MECHANICAL	Index protection	IP20
	Index mechanical	IK09 compliant to EN62262
ENVIRONMENTAL	Operating temperature	-5°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
ES64286	19" cabinet 42U 800 x 600 Essential6 range double front doors	1990 x 809 x 676	Unit
ES64288	19" cabinet 42U 800 x 800 Essential6 range double front doors	1990 x 809 x 876	Unit
ES642810	19" cabinet 42U 800 x 1000 Essential6 range double front doors	1990 x 809 x 1076	Unit

ESSENTIAL RANGE



+ ADVANTAGES

- Aluminum trihedral angles for loading capacity up to 625 kg
- 270° opening doors for a better cabinet accessibility
- Option flat pack available with 70% pre assembled cabinet

Characteristics

FRAME	Reinforced 2 mm steel structure Aluminium diecast tryedre
MOUNTING	Front mounting
DOOR	Secure and tempered glass front door Rear panel
ROOF	Simple roof with natural perforation and precut entry to offer an acces inside the cabinet
CABLE MANAGEMENT	Pre cut entry on each side of the roof / base empty
COATING	Anthracite grey RAL 7016 Epoxy painting

Properties

MECHANICAL	Index protection	IP20
	Index mechanical	IK09 Compliant to EN62262
ENVIRONMENTAL	Operating temperature	-5°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
ES2766	19" cabinet 27U 600x600 Essential range	1323 x 609 x 676	Unit
ES4266	19" cabinet 42U 600 x 600 Essential range	1990 x 609 x 676	Unit
ES4268	19" cabinet 42U 600 x 800 Essential range	1990 x 609 x 876	Unit
ES4286	19" cabinet 42U 800 x 600 Essential range	1990 x 809 x 676	Unit
ES4288	19" cabinet 42U 800 x 800 Essential range	1990 x 809 x 876	Unit
ACJMAR27	19" rear mounting 27U for Essential cabinet 600 mm width	-	Pack of 2
ACJMAR642	19" rear mounting 42U for Essential cabinet 600 mm width	-	Pack of 2
ACJMAR842	19" rear mounting 42U for Essential cabinet 600 mm width	-	Pack of 2

19" CABINETS

FANS AND THERMOSTAT



+ ADVANTAGES

- Block of 2 or 4 fan unit for 19" cabinet"
- Can be mounted on Essential and Technic range cabinet
- Allow air extraction in order to keep an optimal temperature inside the cabinet
- A thermostat can be added for these fans

Characteristics

DIMENSIONS	300 x 351 x 42 mm (W x D x H) without support
ASSEMBLY	Assembly on roof by support with 4 screws from inside the cabinet
CAPACITY OF VENTILATION	150m ³ /h per fan
NOISE LEVEL	ACB2V : 43 dB ACB4V : 46 dB
POWER	230V : power cable 2,5 m length is provided
THERMOSTAT	Can be associated with ACTHERMOST : operating range 0°C to +60°C
MATERIAL	Steel sheet epoxy grey RAL7016

Ordering information

PART NUMBER	DESCRIPTION	PACKING
ACB2V	Block 2 fans units for 19" cabinet range	Unit
ACB4V	Block 4 fans units for 19" cabinet range	Unit
ACTHERMOST	Thermostat for fans	Unit

CABINET ELEVATION ACCESSORIES



+ ADVANTAGES

- Set of 4 castors to allow displacement of the cabinet : 2 castors are equipped with brakes to ensure security
- Set of 4 levelling steel feet to enhance the height of the cabinet and offer a perfect stability in case of irregular floor
- Cabinet chair for Technic and Essential cabinet range : Two enhancement sizes possible: 16 to 28cm/ 28 to 52cm

Characteristics

CASTOR	4 wheels : 2 wheels with brake
HEIGHT OF FEET	Adjustable feet : height 110 mm
LOAD CAPACITY	300 Kg per feet / 50 Kg per castor
COMPATIBILITY	Essential/Technic range

Ordering information

PART NUMBER	DESCRIPTION	PACKING
ACCASTOR	Castor set for 19" cabinet	Pack of 4
ACLEVFEET	Set of leveling feet for 19" cabinet	Pack of 4
ACCHAIR162888	Cabinet chair for 800x800 19" cabinet, adjustable height : 158 to 280mm	Unit
ACCHAIR285266	Cabinet chair for 600x600 19" cabinet, adjustable height : 280 to 520 mm	Unit
ACCHAIR285288	Cabinet chair for 800x800 19" cabinet, adjustable height : 280 to 520 mm	Unit

400 MM WALL MOUNTED CABINET



+ ADVANTAGES

- Loading capacity 60 kg
- Rear and front 19" mounting
- Reversible and security glass front door
- Wheels are available to install the cabinet under a desk

Characteristics

FRAME	Reinforced 2 mm steel structure
MOUNTING	Front & rear 19" mounting
FRONT DOOR	Security glass door
ROOF	Optimized roof with perforations to offer a better ventilation
COATING	Epoxy black RAL 9005

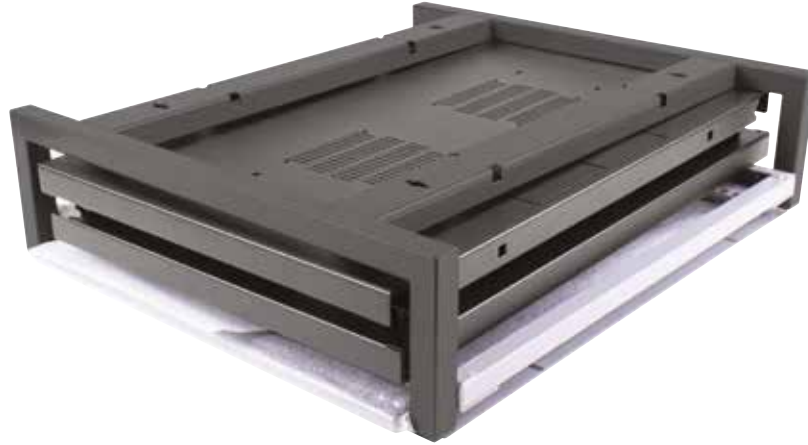
Properties

MECHANICAL	Index protection	IP20
	Index mechanical	IK09
ENVIRONMENTAL	Operating temperature	-10°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
WMC07P400	19" Wall mounted cabinet depth 400 mm - 7U	390 x 600 x 422	Unit
WMC10P400	19" Wall mounted cabinet depth 400 mm - 10U	523 x 600 x 422	Unit
WMC13P400	19" Wall mounted cabinet depth 400 mm - 13U	656 x 600 x 422	Unit
WMC16P400	19" Wall mounted cabinet depth 400 mm - 16U	790 x 600 x 422	Unit

400 MM WALL UNMOUNTED CABINET



+ ADVANTAGES

- 19" wall unmounted cabinet depth 400 mm
- Loading capacity 60 kg
- Innovative Flatpack: cabinet assembly less than 10 minutes by 1 person
- Easy wall fixation
- Wheels are available to install the cabinet under a desk

Characteristics

FRAME	Reinforced 2 mm steel structure
MOUNTING	Front & rear 19" mounting
FRONT DOOR	Security glass door
ROOF	Optimized roof with perforations to offer a better ventilation
ASSEMBLY	Innovative Flatpack: 1 person and less than 10 minutes
COATING	Epoxy black RAL 9005

Properties

MECHANICAL	Index protection	IP20
	Index mechanical	IK09
ENVIRONMENTAL	Operating temperature	-10°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
WUC07P400	19" Wall unmounted cabinet depth 400 mm - 7U	210 x 600 x 422	Unit
WUC10P400	19" Wall unmounted cabinet depth 400 mm - 10U	210 x 600 x 422	Unit
WUC13P400	19" Wall unmounted cabinet depth 400 mm - 13U	210 x 600 x 422	Unit
WUC16P400	19" Wall unmounted cabinet depth 400 mm - 16U	210 x 600 x 422	Unit

19" WALL MOUNTED

600 MM WALL MOUNTED CABINET



+ ADVANTAGES

- Loading capacity 60 kg
- Rear and front 19" mounting
- Reversible and security glass front door
- Wheels are available to install the cabinet under a desk

Characteristics

FRAME	Reinforced 2 mm steel structure
MOUNTING	Front & rear 19" mounting
FRONT DOOR	Security glass door
ROOF	Optimized roof with perforations to offer a better ventilation
COATING	Epoxy black RAL 9005

Properties

MECHANICAL	Index protection	IP20
	Index mechanical	IK09
ENVIRONMENTAL	Operating temperature	-10°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
WMC10P600	19" Wall mounted cabinet depth 600 mm - 10U	523 x 600 x 622	Unit
WMC16P600	19" Wall mounted cabinet depth 600 mm - 16U	790 x 600 x 622	Unit
WMC22P600	19" Wall mounted cabinet depth 600 mm - 12U	1055 x 600 x 622	Unit

600 MM WALL UNMOUNTED CABINET



+ ADVANTAGES

- 19" wall unmounted cabinet depth 600 mm
- Loading capacity 60 kg
- Innovative Flatpack: cabinet assembly less than 10 minutes by 1 person
- Easy wall fixation
- Wheels are available to install the cabinet under a desk

Characteristics

FRAME	Reinforced 2 mm steel structure
MOUNTING	Front & rear 19" mounting
FRONT DOOR	Security glass door
ROOF	Optimized roof with perforations to offer a better ventilation
ASSEMBLY	Innovative Flatpack: 1 person and less than 10 minutes
COATING	Epoxy black RAL 9005

Properties

MECHANICAL	Index protection	IP20
	Index mechanical	IK09
ENVIRONMENTAL	Operating temperature	-10°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
WUC10P600	19" Wall unmounted cabinet depth 600 mm - 10U	220 x 650 x 650	Unit
WUC16P600	19" Wall unmounted cabinet depth 600 mm - 16U	270 x 820 x 650	Unit
WUC22P600	19" Wall unmounted cabinet depth 600 mm - 22U	270 x 1090 x 650	Unit

19" WALL MOUNTED

WALL MOUNTED ACCESSORIES



+ ADVANTAGES

- 19" wall mounted fans : 1 fan or 2 fans to allow ventilation of the wall cabinet
- 19" wall mounted wheels : to allow installation of the wall cabinet under a desk

Fans characteristics

CAPACITY OF VENTILATION	150m ³ /h per fan
NOISE LEVEL	ACB2V : 42 dB
POWER SUPPLY	230V : power cable provided

Wheels characteristics

KIT COMPOSITION	4 wheels : 2 wheels with brake
LOADING CAPACITY	250 kg
HEIGHT	Added 110mm to the cabinet with wheels

Ordering information

PART NUMBER	DESCRIPTION	PACKING
WMC1V	Bloc 1 fan for MMC wall cabinet	Unit
WMC2V	Bloc 2 fans for MMC wall cabinet	Unit
WMCWHEEL	4 wheels for MMC wall cabinet	Unit

600 MM WALL MOUNTED CABINET LINK+



+ ADVANTAGES

- Loading capacity 50 kg
- Easy wall fixation ,cabinet assembly by 1 person
- Perfect as a starting point for the distribution of small tertiary or sub-distributor cabling

Characteristics

FRAME	Steel
MOUNTING	Front & rear 19" mounting
FRONT DOOR	Glassed front door equipped with 1 locking point
SIDE PANEL	2 locking points without key
ROOF	Pre cut entry to allow an easy cable entry
COATING	Black RAL 9005

Properties

MECHANICAL	Door	Removable and reversible front door
	Ventilation	Natural ventilation and perforations to fix 2 fans
ENVIRONMENTAL	Operating temperature	-5°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
LKOFF9UP600	19" Wall mounted cabinet depth 600 mm - 9U	501 x 600 x 600	Unit
LKOFF12UP600	19" Wall mounted cabinet depth 600 mm - 12U	635 x 600 x 600	Unit
LKOFF15UP600	19" Wall mounted cabinet depth 600 mm - 15U	769 x 600 x 600	Unit
LKOFF18UP600	19" Wall mounted cabinet depth 600 mm - 18U	901 x 600 x 600	Unit

19" WALL MOUNTED

450 MM WALL MOUNTED CABINET LINK+



+ ADVANTAGES

- Loading capacity 50 kg
- Easy wall fixation ,cabinet assembly by 1 person
- Perfect as a starting point for the distribution of small tertiary or sub-distributor cabling

Characteristics

FRAME	Steel
MOUNTING	Front & rear 19" mounting
FRONT DOOR	Glassed front door equipped with 1 locking point
SIDE PANEL	2 locking points without key
ROOF	Pre cut entry to allow an easy cable entry
COATING	Black RAL 9005

Properties

MECHANICAL	Door	Removable and reversible front door
	Ventilation	Natural ventilation and perforations to fix 2 fans
ENVIRONMENTAL	Operating temperature	-5°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	DIMENSIONS HxWxD (mm)	PACKING
LKOFF6UP450	19" Wall mounted cabinet depth 450 mm - 6U	368 x 600 x 450	Unit
LKOFF9UP450	19" Wall mounted cabinet depth 450 mm - 9U	501 x 600 x 450	Unit
LKOFF12UP450	19" Wall mounted cabinet depth 450 mm - 12U	635 x 600 x 450	Unit
LKOFF15UP450	19" Wall mounted cabinet depth 450 mm - 15U	769 x 600 x 450	Unit

10" WALL MOUNTED CABINET



+ ADVANTAGES

- Available in 6U for building or residential applications
- Reversible front door with 180° opening for a better access to the panel
- Large range of 10" accessories are available

Characteristics

FRAME	Reinforced 2 mm steel structure
MOUNTING	Front 10" mounting
FRONT DOOR	Securit glass door
BACK DOOR	Full panel
ROOF	Roof with perforations to allow a natural ventilation
CABLE MANGEMENT	Cable entry on the top
COATING	Epoxy black RAL 9005

Properties Properties

MECHANICAL	Index protection (IP)	IP20
	Index mechanical (IK)	IK09
ENVIRONMENTAL	Operating temperature	-10°C to +50°C

Ordering information

PART NUMBER	DESCRIPTION	PACKING
DC10COF6UN	Wall mounting cabinet 10" depth 300 mm - 6U	Unit
DC10GC1U	10" cable management panel 3 rings	Unit
DC10OB1U	10" blank panel 1U	Unit
DC10PM1U	10" modem plate 1U	Unit
DC104PC	10" power distribution unit 4 sockets	Unit

19" WALL MOUNTED

48 xx T LC yy FL ww	144	ACJMAR842	170	CORD6AS01LED	76	DC10PM1U	180
48 xx T LC yy IS FL ww	143	ACLEVFEEET	172	CORD6AS01MSH	77	DCyC	100
48 xx T LC yy IT FL ww	143	ACTHERMOST	171	CORD6AS02LED	76	DEFF	89
48 xx T LC yy IT ww	143	ADSSDS120 xx yyy	115	CORD6AS02MSH	77	DEFM	89
48 xx T LC yy ww	144			CORD6AS03LED	76	DTUF	89
48 xx T SC yy FL ww	146	B		CORD6AS03MSH	77		
48 xx T SC yy ww	146	BC24PAN1U	61	CORD6AS05LED	76	ECA451U	129
48 xxT SC yy ISS FL ww	145	BC451C8	68	CORD6AS05MSH	77	ECAMP1U	129
48BMOM xx Z YYYY WWW	158	BC452C8	68	CORD6AS10MSH	77	ecoff12up450t	179
48BMOM12SCSLCDI	158	BC5EFSTL50	58	CORD6ASF01xMSH	78	ecoff12up600	178
48BMOM6SCDLQI	158	BC5EFSTL8	58	CORD6ASF02xMSH	78	ecoff15up450t	179
48BMOP xx Z YYYY WWW	159	BC5ENB	59	CORD6ASF03xMSH	78	ecoff15up600	178
48BMOP xx Z YYYY WWW	160	BC6AFSTL50	51	CORD6ASF05xMSH	78	ecoff18up600	178
48BMOP24IP65PN	159	BC6AFSTL8	51	CORD6ASF10xMSH	78	ecoff6up450t	179
48BMOP48IP65PN	160	BC6ANBTL50	52	CORD6AU01LMSH	79	ecoff9up450t	179
48CRIMPTOOLMICRO	138	BC6FSTL50	54	CORD6AU02LMSH	79	ecoff9up600	178
48CRIMPTOOLUNIV	138	BC6FSTL8	54	CORD6AU03LMSH	79	ECORD6ASF005xMSH	80
48FTTH4	165	BC6NB	56	CORD6AU05LMSH	79	ECORD6ASF01xMSH	80
48FTTHxCyyz	165	BC6NBPANSB24	65	CORD6F01xM	81	ECORD6ASF02xMSH	80
48K712FO1598	139	BC6NBPANSB48	65	CORD6F02xM	81	ECORD6ASF03xMSH	80
48K724FO2298	139	BC861C	69	CORD6F03xM	81	ECORD6ASF05xMSH	80
48K736FO23158	139	BC862C	69	CORD6F05xM	81	ECORD6ASF10xMSH	80
48MKA3U8SB	161	BC864C	69	CORD6F10xM	81	ecord6f005M	84
48MKASB1X144	161	BCBOXFS12	91	CORD6U01xM	83	ecord6f01M	84
48MKS	137	BCDUSTFPx8	68	CORD6U02xM	83	ecord6f02M	84
48MMP2SCD	164	BCDUSTPANx8	61	CORD6U03xM	83	ecord6f03M	84
48MMP2SCS	164	BCDUSTSHx8	51	CORD6U05xM	83	ecord6f05M	84
48SPOOLERKIT	137	BCDUSTSHx8	52	COUPLK6AFS	88	EQCH1U19	129
48SPOOLERTRAY	137	BCDUSTSHx8	53	COUPLMMICIP54	87	EQCH1U23	129
5254ARPE	35	BCDUSTSHx8	54	CX64PE	40	ES2766	170
5254SHINOUT	32	BCDUSTSHx8	55	CX6xSHC5	39	ES4266	170
525A26SH	31	BCDUSTSHx8	56	CX6xSHy	39	ES4268	170
525xSHB25	30	BCDUSTSHx8	57			ES4286	170
525xSHcy	30	BCDUSTSHx8	58	D		ES4288	170
525xSHy	30	BCDUSTSHx8	59	DC FANOUT KIT 12C	138	ES642810	169
555P4SH	47	BCOB	62	DC FANOUT KIT 24C	138	ES64286	169
600x5SHEV	26	BCOB	64	DC FE xx A yyy www	127	ES64288	169
600xSHB25	26	BPCAN1UV48	63	DC FU 15 SCDLCQ	127	EXTALCTDSxxSH	110
600xSHC5	26	BCTOOLS	56	DC FU 30 SCSLCD	127	EXTALCTDSxxyyy	118
		BCTOOLS	59	DC K7 24P yyy zzz	126	EXTALCTxxRyyy	117
A		BCTOOLS	60	DC K7 6A yyy www	126	EXTALCTxxyyy	117
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