



SOLUTIONS FOR  
**NUCLEAR**  
INFRASTRUCTURES

AXINDUS

MMC  
MultimediaConnect

S2CEB





p.4 PRESENTATION OF CAE GROUPE

## POWER CABLES

- p.6 Solid cables
- p.7 Shielded multi-conductor
- p.8 Shielded single-conductor

## FLEXIBLE CONTROL-COMMAND CABLES

- p.9 Unshielded multi-conductor black numbers core identification + green/yellow
- p.10 Shielded multi-conductor black numbers core identification + green/yellow
- p.11 Unshielded multi-conductor 0.6 / 1KV black numbers core identification + green/yellow
- p.12 Shielded multi-conductor 0.6 / 1KV black numbers core identification + green/yellow
- p.13 Shielded multi-conductor DIN 47100 color-code

## FLEXIBLE DATA TRANSMISSION CABLES

- p.14 Shielded multi-pairs DIN 47100 color-code
- p.16 BUS Cables

## SPEAKER CABLES

- p.17 LSZH C1 speaker cables

## DIGITAL TELEPHONE CABLES

- p.18 LSZH C1 telephone cables
- p.19 B2ca telephone cables

## COPPER LAN CABLES

## COPPER CONNECTIVITY

## IP-LINK

## WATERPROOF CONNECTIVITY

## RJ45 CORDS

## TECHNICAL GUIDE: OPTICAL FIBER

## OPTICAL CABLES

## OPTICAL CONNECTORS

## 19-INCH RACKS

## 19-INCH ACCESSORIES

## SHEET METAL / 19-INCH CABINETS

## CAE SERVICES

- p.38 Pre-assembled racks
- p.40 35-year system warranty
- p.41 Specific cables

## INDEX

# PRESENTATION OF CAE GROUPE



## CAE GROUPE, A SUBSIDIARY OF TKH GROUP AN INTERNATIONAL SCOPE

Over 25 years' experience in the low-voltage sector.

CAE GROUPE is a subsidiary of TKH Group, a Dutch company listed on the Amsterdam stock exchange (Euronex) and operating worldwide through manufacturing and distribution subsidiaries, representing a turnover of 1.6 billion euros in 2018.

## A SOLUTION FOR EVERY APPLICATION

CAE GROUPE develops cabling solutions for all types of infrastructure applications.

Our company also offers specific cables, designed to meet technical, practical and financial constraints.

Its joint venture with TKH provides expertise, technicality, a high production capacity and over 50 years of industrial experience. Always close to its customers and focused on their every needs, CAE GROUPE drives its research, development and services in order to offer innovative and customized solutions.



## ENVIRONMENTS

- Industrial
- Tertiary
- Residential
- Data centers
- Hotels
- Education
- Nuclear
- Automation and processes
- Petrochemistry
- Water treatment
- Marine
- Handling and lifting
- Rail
- Medical
- Aeronautics



## QUALITY, STANDARDS AND CERTIFICATIONS

CAE GROUPE, an ISO 9001/2015 version certified company, is constantly attentive to its customers' needs in order to improve its products and deliver optimum quality. Our company also ensures consistent, controlled quality by submitting its solutions to certifications issued by independent laboratories such as:

- ROHS
- REACH
- CPR
- DELTA
- LLOYD'S
- ISO
- BV
- UL/CSA
- HAR



# PRESENTATION OF CAE GROUPE



## FACTORIES: AT THE VERY HEART OF PRODUCTION

CAE GROUPE and TKH Group benefit from a “manufacturing pole”, comprising specialized factories, some of which have been operating for over 50 years in various application fields of the industrial and construction sectors.



### The Netherlands

Industrial & communication cables  
Marine, Oil & Gas, Fiber optics

### Lochem Netherlands

Submarine cables



### Germany

Miniature robotic cables  
Cables for medical sector

### China

Optical fiber from silica preform to assembly

## INNOVATIVE SOLUTIONS FOR THE NUCLEAR INDUSTRY

The nuclear sector requires devices that can operate under extreme conditions, all the while prioritizing on the protection of personnel, populations, infrastructures and the environment, for all the generations to come.

In this sector, the keywords are:

- Reliability
- Security
- Long-term durability
- Infallibility

To meet these requirements, CAE GROUPE has developed a range of cables specifically designed for the nuclear industry, halogen-free and certified C1 or with a high Cca or B2ca CPR rating, limiting flame propagation as well as the emission of large quantities of smoke and toxic gases.

Our product range is fully aligned with secure, long-lasting installations that meet the highest standards of safety and performance.

CAE GROUPE offers various LSZH products:

- Power cables
- Control cables
- Telephone cables
- Data transmission cables
- LAN cables
- Optical cables
- Speaker Cables

but also develops customized cables to meet your specifications, based on your technical, practical and financial constraints.

# POWER CABLES

## SOLID POWER CABLES



### FR-N1X1G1



- LSZH green outer sheath
- Non-fire propagator in compliance with NF C32-070 category C1
- Non-flame propagator in compliance with NF C32-070 category C2
- XLPE insulation
- Core temperature: 90°C
- CPR classification Cca s1, d1, a1
- Operating voltage: 0.6/1kV

PART NUMBER	DESCRIPTION
FRN1X70	FR-N1X1G1 1X70mm <sup>2</sup> C1 1kV 90°C
FRN1X95	FR-N1X1G1 1X95mm <sup>2</sup> C1 1kV 90°C
FRN1X120	FR-N1X1G1 1X120mm <sup>2</sup> C1 1kV 90°C
FRN1X150	FR-N1X1G1 1X150mm <sup>2</sup> C1 1kV 90°C
FRN1X185	FR-N1X1G1 1X185mm <sup>2</sup> C1 1kV 90°C
FRN1X240	FR-N1X1G1 1X240mm <sup>2</sup> C1 1kV 90°C
FRN1X300	FR-N1X1G1 1X300mm <sup>2</sup> C1 1kV 90°C
FRN2X15	FR-N1X1G1 2X1,5mm <sup>2</sup> C1 1kV 90°C
FRN3G15	FR-N1X1G1 3G1,5mm <sup>2</sup> C1 1kV 90°C
FRN4G15	FR-N1X1G1 4G1,5mm <sup>2</sup> C1 1kV 90°C
FRN5G15	FR-N1X1G1 5G1,5mm <sup>2</sup> C1 1kV 90°C
FRN7G15	FR-N1X1G1 7G1,5mm <sup>2</sup> C1 1kV 90°C
FRN12G15	FR-N1X1G1 12G1,5mm <sup>2</sup> C1 1kV 90°C
FRN19G15	FR-N1X1G1 19G1,5mm <sup>2</sup> C1 1kV 90°C
FRN3G25	FR-N1X1G1 3G2,5mm <sup>2</sup> C1 1kV 90°C
FRN4G25	FR-N1X1G1 4G2,5mm <sup>2</sup> C1 1kV 90°C
FRN5G25	FR-N1X1G1 5G2,5mm <sup>2</sup> C1 1kV 90°C
FRN7G25	FR-N1X1G1 7G2,5mm <sup>2</sup> C1 1kV 90°C
FRN19G25	FR-N1X1G1 19G2,5mm <sup>2</sup> C1 1kV 90°C
FRN3G4	FR-N1X1G1 3G4mm <sup>2</sup> C1 1kV 90°C
FRN4G4	FR-N1X1G1 4G4mm <sup>2</sup> C1 1kV 90°C
FRN5G4	FR-N1X1G1 5G4mm <sup>2</sup> C1 1kV 90°C

PART NUMBER	DESCRIPTION
FRN3G6	FR-N1X1G1 3G6mm <sup>2</sup> C1 1kV 90°C
FRN4G6	FR-N1X1G1 4G6mm <sup>2</sup> C1 1kV 90°C
FRN5G6	FR-N1X1G1 5G6mm <sup>2</sup> C1 1kV 90°C
FRN3G10	FR-N1X1G1 3G10mm <sup>2</sup> C1 1kV 90°C
FRN4G10	FR-N1X1G1 4G10mm <sup>2</sup> C1 1kV 90°C
FRN5G10	FR-N1X1G1 5G10mm <sup>2</sup> C1 1kV 90°C
FRN3G16	FR-N1X1G1 3G16mm <sup>2</sup> C1 1kV 90°C
FRN4G16	FR-N1X1G1 4G16mm <sup>2</sup> C1 1kV 90°C
FRN5G16	FR-N1X1G1 5G16mm <sup>2</sup> C1 1kV 90°C
FRN3G25MM	FR-N1X1G1 3G25mm <sup>2</sup> C1 1kV 90°C
FRN4G25MM	FR-N1X1G1 4G25mm <sup>2</sup> C1 1kV 90°C
FRN5G25MM	FR-N1X1G1 5G25mm <sup>2</sup> C1 1kV 90°C
FRN3G35	FR-N1X1G1 3G35mm <sup>2</sup> C1 1kV 90°C
FRN4G35	FR-N1X1G1 4G35mm <sup>2</sup> C1 1kV 90°C
FRN4G50	FR-N1X1G1 4G50mm <sup>2</sup> C1 1kV 90°C
FRN4G70	FR-N1X1G1 4G70mm <sup>2</sup> C1 1kV 90°C
FRN4G95	FR-N1X1G1 4G95mm <sup>2</sup> C1 1kV 90°C
FRN5G95	FR-N1X1G1 4G95mm <sup>2</sup> C1 1kV 90°C

Packaging : T500m / T1000m / Cut to size on request  
 Other cross-sections and number of conductors: Contact us

# POWER CABLES

## SHIELDED MULTI-CONDUCTOR



### HIFLEX-CH 1KV B2ca



- LSZH black outer sheath
- CPR classification B2ca s1a, d1, a1
- Flexible copper core class 5
- Tinned copper braid shielding, 85% covering
- Color code HD 308 S2
- Halogen-free special-blend insulation
- Operating voltage: 0.6/1kV

PART NUMBER	DESCRIPTION
1KV90310150SHB2	HIFLEX-CH 1KV 3G1.5mm <sup>2</sup> SH B2ca Noir
1KV90410150SHB2	HIFLEX-CH 1KV 4G1.5mm <sup>2</sup> SH B2ca Noir
1KV90510150SHB2	HIFLEX-CH 1KV 5G1.5mm <sup>2</sup> SH B2ca Noir
1KV90310250SHB2	HIFLEX-CH 1KV 3G2.5mm <sup>2</sup> SH B2ca Noir
1KV90410250SHB2	HIFLEX-CH 1KV 4G2.5mm <sup>2</sup> SH B2ca Noir
1KV90510250SHB2	HIFLEX-CH 1KV 5G2.5mm <sup>2</sup> SH B2ca Noir
1KV90310400SHB2	HIFLEX-CH 1KV 3G4mm <sup>2</sup> SH B2ca Noir
1KV90410400SHB2	HIFLEX-CH 1KV 4G4mm <sup>2</sup> SH B2ca Noir
1KV90510400SHB2	HIFLEX-CH 1KV 5G4mm <sup>2</sup> SH B2ca Noir
1KV90310600SHB2	HIFLEX-CH 1KV 3G6mm <sup>2</sup> SH B2ca Noir
1KV90410600SHB2	HIFLEX-CH 1KV 4G6mm <sup>2</sup> SH B2ca Noir
1KV90510600SHB2	HIFLEX-CH 1KV 5G6mm <sup>2</sup> SH B2ca Noir
1KV90311000SHB2	HIFLEX-CH 1KV 3G10mm <sup>2</sup> SH B2ca Noir
1KV90411000SHB2	HIFLEX-CH 1KV 4G10mm <sup>2</sup> SH B2ca Noir
1KV90511000SHB2	HIFLEX-CH 1KV 5G10mm <sup>2</sup> SH B2ca Noir
1KV90411600SHB2	HIFLEX-CH 1KV 4G16mm <sup>2</sup> SH B2ca Noir
1KV90511600SHB2	HIFLEX-CH 1KV 5G16mm <sup>2</sup> SH B2ca Noir

If you require **unshielded** HIFLEX H 1KV B2ca, please contact us.

# POWER CABLES

## SHIELDED SINGLE-CONDUCTORS



### HIFLEX CH 1KV Mono



- LSZH black outer sheath
- CPR rating B2ca s1a, d1, a1
- Flexible copper core class 5
- Tinned copper braid shielding, 85% covering
- Halogen-free special-blend insulation
- Operating voltage: 0.6/1kV

PART NUMBER	DESCRIPTION
1KV90115000SHB2	HIFLEX-CH 1 KV 1X50mm <sup>2</sup> B2ca s1a, d1, a1
1KV90117000SHB2	HIFLEX-CH 1 KV 1X70mm <sup>2</sup> B2ca s1a, d1, a1
1KV90119500SHB2	HIFLEX-CH 1 KV 1X95mm <sup>2</sup> B2ca s1a, d1, a1
1KV901112000SHB2	HIFLEX-CH 1 KV 1X120mm <sup>2</sup> B2ca s1a, d1, a1
1KV901115000SHB2	HIFLEX-CH 1 KV 1X150mm <sup>2</sup> B2ca s1a, d1, a1
1KV901118500SHB2	HIFLEX-CH 1 KV 1X185mm <sup>2</sup> B2ca s1a, d1, a1
1KV901124000SHB2	HIFLEX-CH 1 KV 1X240mm <sup>2</sup> B2ca s1a, d1, a1

### MN2X-TREM wiring cable



- LSZH insulation
- Non-fire propagator in compliance with NF C32-070 category C1
- Non-flame propagator in compliance with NF C32-070 category C2
- Flexible copper core class 5
- Core temperature: 90°C
- Operating voltage: 0.6/1kV

PART NUMBER	DESCRIPTION
MN2XT075	Fil MN2 X-TREM 1x0,75mm <sup>2</sup>
MN2XT1	Fil MN2 X-TREM 1x1mm <sup>2</sup>
MN2XT15	Fil MN2 X-TREM 1x1,5mm <sup>2</sup>
MN2XT25	Fil MN2 X-TREM 1x2,5mm <sup>2</sup>
MN2XT4	Fil MN2 X-TREM 1x4mm <sup>2</sup>
MN2XT6	Fil MN2 X-TREM 1x6mm <sup>2</sup>
MN2XT10	Fil MN2 X-TREM 1x10mm <sup>2</sup>
MN2XT16	Fil MN2 X-TREM 1x16mm <sup>2</sup>
MN2XT25MM	Fil MN2 X-TREM 1x25mm <sup>2</sup>
MN2XT35	Fil MN2 X-TREM 1x35mm <sup>2</sup>
MN2XT50	Fil MN2 X-TREM 1x50mm <sup>2</sup>
MN2XT70	Fil MN2 X-TREM 1x70mm <sup>2</sup>

Packaging: 100m coil / Reels according to section

Available colors: Red, Black, Blue, Green/Yellow, Brown, Purple, Orange, Grey, White

Other sections: Please contact us



# FLEXIBLE CONTROL CABLES

## UNSHIELDED MULTI-CONDUCTOR

## BLACK NUMBERS CORE IDENTIFICATION + GREEN/YELLOW



CAELIFLEX CPR B2ca



- LSZH grey outer sheath
- CPR rating B2ca s1a, d1, a1
- Flexible copper core class 5
- Black numbers core identification + green/yellow
- Halogen-free special-blend insulation
- Operating voltage: 300/500V

PART NUMBER	DESCRIPTION
1020075SHB2	CAELIFLEX SHB2 2X0.75mm <sup>2</sup> HSLH
1030075SHB2	CAELIFLEX SHB2 3G0.75mm <sup>2</sup> HSLH
1040075SHB2	CAELIFLEX SHB2 4G0.75mm <sup>2</sup> HSLH
1050075SHB2	CAELIFLEX SHB2 5G0.75mm <sup>2</sup> HSLH
1070075SHB2	CAELIFLEX SHB2 7G0.75mm <sup>2</sup> HSLH
1120075SHB2	CAELIFLEX SHB2 12G0.75mm <sup>2</sup> HSLH
1190075SHB2	CAELIFLEX SHB2 19G0.75mm <sup>2</sup> HSLH
1270075SHB2	CAELIFLEX SHB2 27G0.75mm <sup>2</sup> HSLH
1020100SHB2	CAELIFLEX SHB2 2X1mm <sup>2</sup> HSLH
1030100SHB2	CAELIFLEX SHB2 3G1mm <sup>2</sup> HSLH
1040100SHB2	CAELIFLEX SHB2 4G1mm <sup>2</sup> HSLH
1050100SHB2	CAELIFLEX SHB2 5G1mm <sup>2</sup> HSLH
1070100SHB2	CAELIFLEX SHB2 7G1mm <sup>2</sup> HSLH
1120100SHB2	CAELIFLEX SHB2 12G1mm <sup>2</sup> HSLH
1190100SHB2	CAELIFLEX SHB2 19G1mm <sup>2</sup> HSLH
1270100SHB2	CAELIFLEX SHB2 27G1mm <sup>2</sup> HSLH
1020150SHB2	CAELIFLEX SHB2 2X1.5mm <sup>2</sup> HSLH
1030150SHB2	CAELIFLEX SHB2 3G1.5mm <sup>2</sup> HSLH
1040150SHB2	CAELIFLEX SHB2 4G1.5mm <sup>2</sup> HSLH
1050150SHB2	CAELIFLEX SHB2 5G1.5mm <sup>2</sup> HSLH
1070150SHB2	CAELIFLEX SHB2 7G1.5mm <sup>2</sup> HSLH
1120150SHB2	CAELIFLEX SHB2 12G1.5mm <sup>2</sup> HSLH
1190150SHB2	CAELIFLEX SHB2 19G1.5mm <sup>2</sup> HSLH
1270150SHB2	CAELIFLEX SHB2 27G1.5mm <sup>2</sup> HSLH
1030250SHB2	CAELIFLEX SHB2 3G2.5mm <sup>2</sup> HSLH
1040250SHB2	CAELIFLEX SHB2 4G2.5mm <sup>2</sup> HSLH
1050250SHB2	CAELIFLEX SHB2 5G2.5mm <sup>2</sup> HSLH
1070250SHB2	CAELIFLEX SHB2 7G2.5mm <sup>2</sup> HSLH
1120250SHB2	CAELIFLEX SHB2 12G2.5mm <sup>2</sup> HSLH
1190250SHB2	CAELIFLEX SHB2 19G2.5mm <sup>2</sup> HSLH

## UNSHIELDED MULTI-CONDUCTOR BLACK NUMBERS CORE IDENTIFICATION + GREEN/YELLOW

Shielded CAELIFLEX CPR B2ca



- LSZH grey outer sheath
- CPR rating B2ca s1a, d1, a1
- Flexible copper core class 5
- Tinned copper braid shielding, 85% covering
- Black numbers core identification + green/yellow
- Halogen-free special-blend insulation
- Operating voltage: 300/500V

PART NUMBER	DESCRIPTION
2020075SHB2	CAELIFLEX-B SHB2 2X0.75mm <sup>2</sup> HSLCH
2030075SHB2	CAELIFLEX-B SHB2 3G0.75mm <sup>2</sup> HSLCH
2040075SHB2	CAELIFLEX-B SHB2 4G0.75mm <sup>2</sup> HSLCH
2050075SHB2	CAELIFLEX-B SHB2 5G0.75mm <sup>2</sup> HSLCH
2070075SHB2	CAELIFLEX-B SHB2 7G0.75mm <sup>2</sup> HSLCH
2120075SHB2	CAELIFLEX-B SHB2 12G0.75mm <sup>2</sup> HSLCH
2190075SHB2	CAELIFLEX-B SHB2 19G0.75mm <sup>2</sup> HSLCH
2020100SHB2	CAELIFLEX-B SHB2 2X1mm <sup>2</sup> HSLCH
2030100SHB2	CAELIFLEX-B SHB2 3G1mm <sup>2</sup> HSLCH
2040100SHB2	CAELIFLEX-B SHB2 4G1mm <sup>2</sup> HSLCH
2050100SHB2	CAELIFLEX-B SHB2 5G1mm <sup>2</sup> HSLCH
2070100SHB2	CAELIFLEX-B SHB2 7G1mm <sup>2</sup> HSLCH
2120100SHB2	CAELIFLEX-B SHB2 12G1mm <sup>2</sup> HSLCH
2190100SHB2	CAELIFLEX-B SHB2 19G1mm <sup>2</sup> HSLCH
2270100SHB2	CAELIFLEX-B SHB2 27G1mm <sup>2</sup> HSLCH
2020150SHB2	CAELIFLEX-B SHB2 2X1.5mm <sup>2</sup> HSLCH
2030150SHB2	CAELIFLEX-B SHB2 3G1.5mm <sup>2</sup> HSLCH
2040150SHB2	CAELIFLEX-B SHB2 4G1.5mm <sup>2</sup> HSLCH
2050150SHB2	CAELIFLEX-B SHB2 5G1.5mm <sup>2</sup> HSLCH
2070150SHB2	CAELIFLEX-B SHB2 7G1.5mm <sup>2</sup> HSLCH
2120150SHB2	CAELIFLEX-B SHB2 12G1.5mm <sup>2</sup> HSLCH
2190150SHB2	CAELIFLEX-B SHB2 19G1.5mm <sup>2</sup> HSLCH
2270150SHB2	CAELIFLEX-B SHB2 27G1.5mm <sup>2</sup> HSLCH
2030250SHB2	CAELIFLEX-B SHB2 3G2.5mm <sup>2</sup> HSLCH
2040250SHB2	CAELIFLEX-B SHB2 4G2.5mm <sup>2</sup> HSLCH
2050250SHB2	CAELIFLEX-B SHB2 5G2.5mm <sup>2</sup> HSLCH
2070250SHB2	CAELIFLEX-B SHB2 7G2.5mm <sup>2</sup> HSLCH
2120250SHB2	CAELIFLEX-B SHB2 12G2.5mm <sup>2</sup> HSLCH
2190250SHB2	CAELIFLEX-B SHB2 19G2.5mm <sup>2</sup> HSLCH

## UNSHIELDED MULTI-CONDUCTOR 0.6/1KV BLACK NUMBERS CORE IDENTIFICATION

CAELIFLEX 1KV CPR B2ca



- LSZH grey outer sheath
- CPR rating B2ca s1a, d1, a1
- Flexible copper core class 5
- Black numbers core identification
- Halogen-free special-blend insulation
- Operating voltage: 0.6/1kV

PART NUMBER	DESCRIPTION
1KV1020075SHB2	CAELIFLEX SHB2 1KV 2X0.75mm <sup>2</sup> HSLH
1KV1030075SVJSHB2	CAELIFLEX SHB2 1KV 3X0.75mm <sup>2</sup> HSLH
1KV1040075SVJSHB2	CAELIFLEX SHB2 1KV 4X0.75mm <sup>2</sup> HSLH
1KV1050075SVJSHB2	CAELIFLEX SHB2 1KV 5X0.75mm <sup>2</sup> HSLH
1KV1070075SVJSHB2	CAELIFLEX SHB2 1KV 7X0.75mm <sup>2</sup> HSLH
1KV1120075SVJSHB2	CAELIFLEX SHB2 1KV 12X0.75mm <sup>2</sup> HSLH
1KV1190075SVJSHB2	CAELIFLEX SHB2 1KV 19X0.75mm <sup>2</sup> HSLH
1KV1270075SVJSHB2	CAELIFLEX SHB2 1KV 27X0.75mm <sup>2</sup> HSLH
1KV1020100SHB2	CAELIFLEX SHB2 1KV 2X1mm <sup>2</sup> HSLH
1KV1030100SVJSHB2	CAELIFLEX SHB2 1KV 3X1mm <sup>2</sup> HSLH
1KV1040100SVJSHB2	CAELIFLEX SHB2 1KV 4X1mm <sup>2</sup> HSLH
1KV1050100SVJSHB2	CAELIFLEX SHB2 1KV 5X1mm <sup>2</sup> HSLH
1KV1070100SVJSHB2	CAELIFLEX SHB2 1KV 7X1mm <sup>2</sup> HSLH
1KV1120100SVJSHB2	CAELIFLEX SHB2 1KV 12X1mm <sup>2</sup> HSLH
1KV1190100SVJSHB2	CAELIFLEX SHB2 1KV 19X1mm <sup>2</sup> HSLH
1KV1270100SVJSHB2	CAELIFLEX SHB2 1KV 27X1mm <sup>2</sup> HSLH
1KV1020150SHB2	CAELIFLEX SHB2 1KV 2X1.5mm <sup>2</sup> HSLH
1KV1030150SVJSHB2	CAELIFLEX SHB2 1KV 3X1.5mm <sup>2</sup> HSLH
1KV1040150SVJSHB2	CAELIFLEX SHB2 1KV 4X1.5mm <sup>2</sup> HSLH
1KV1050150SVJSHB2	CAELIFLEX SHB2 1KV 5X1.5mm <sup>2</sup> HSLH
1KV1070150SVJSHB2	CAELIFLEX SHB2 1KV 7X1.5mm <sup>2</sup> HSLH
1KV1120150SVJSHB2	CAELIFLEX SHB2 1KV 12X1.5mm <sup>2</sup> HSLH
1KV1190150SVJSHB2	CAELIFLEX SHB2 1KV 19X1.5mm <sup>2</sup> HSLH
1KV1270150SVJSHB2	CAELIFLEX SHB2 1KV 27X1.5mm <sup>2</sup> HSLH
1KV1030250SVJSHB2	CAELIFLEX SHB2 1KV 3X2.5mm <sup>2</sup> HSLH
1KV1040250SVJSHB2	CAELIFLEX SHB2 1KV 4X2.5mm <sup>2</sup> HSLH
1KV1050250SVJSHB2	CAELIFLEX SHB2 1KV 5X2.5mm <sup>2</sup> HSLH
1KV1070250SVJSHB2	CAELIFLEX SHB2 1KV 7X2.5mm <sup>2</sup> HSLH
1KV1120250SVJSHB2	CAELIFLEX SHB2 1KV 12X2.5mm <sup>2</sup> HSLH
1KV1190250SVJSHB2	CAELIFLEX SHB2 1KV 19X2.5mm <sup>2</sup> HSLH
1KV1040400SVJSHB2	CAELIFLEX SHB2 1KV 4X4mm <sup>2</sup> HSLH
1KV1040600SVJSHB2	CAELIFLEX SHB2 1KV 4X6mm <sup>2</sup> HSLH

## UNSHIELDED MULTI-CONDUCTOR 0.6/1KV BLACK NUMBERS CORE IDENTIFICATION

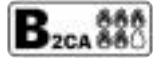
Shielded CAELIFLEX 1KV CPR B2ca



- LSZH grey outer sheath
- CPR rating B2ca s1a, d1, a1
- Flexible copper core class 5
- Tinned copper braid shielding, 85% covering
- Black numbers core identification
- Halogen-free special-blend insulation
- Operating voltage: 0.6/1kV

PART NUMBER	DESCRIPTION
1KV2020075SHB2	CAELIFLEX-B SHB2 1KV 2X0.75mm <sup>2</sup> HSLCH
1KV2030075SVJSHB2	CAELIFLEX-B SHB2 1KV 3X0.75mm <sup>2</sup> HSLCH
1KV2040075SVJSHB2	CAELIFLEX-B SHB2 1KV 4X0.75mm <sup>2</sup> HSLCH
1KV2050075SVJSHB2	CAELIFLEX-B SHB2 1KV 5X0.75mm <sup>2</sup> HSLCH
1KV2070075SVJSHB2	CAELIFLEX-B SHB2 1KV 7X0.75mm <sup>2</sup> HSLCH
1KV2120075SVJSHB2	CAELIFLEX-B SHB2 1KV 12X0.75mm <sup>2</sup> HSLCH
1KV2190075SVJSHB2	CAELIFLEX-B SHB2 1KV 19X0.75mm <sup>2</sup> HSLCH
1KV2020100SHB2	CAELIFLEX-B SHB2 1KV 2X1mm <sup>2</sup> HSLCH
1KV2030100SVJSHB2	CAELIFLEX-B SHB2 1KV 3X1mm <sup>2</sup> HSLCH
1KV2040100SVJSHB2	CAELIFLEX-B SHB2 1KV 4X1mm <sup>2</sup> HSLCH
1KV2050100SVJSHB2	CAELIFLEX-B SHB2 1KV 5X1mm <sup>2</sup> HSLCH
1KV2070100SVJSHB2	CAELIFLEX-B SHB2 1KV 7X1mm <sup>2</sup> HSLCH
1KV2120100SVJSHB2	CAELIFLEX-B SHB2 1KV 12X1mm <sup>2</sup> HSLCH
1KV2190100SVJSHB2	CAELIFLEX-B SHB2 1KV 19X1mm <sup>2</sup> HSLCH
1KV2270100SVJSHB2	CAELIFLEX-B SHB2 1KV 27X1mm <sup>2</sup> HSLCH
1KV2020150SHB2	CAELIFLEX-B SHB2 1KV 2X1.5mm <sup>2</sup> HSLCH
1KV2030150SVJSHB2	CAELIFLEX-B SHB2 1KV 3X1.5mm <sup>2</sup> HSLCH
1KV2040150SVJSHB2	CAELIFLEX-B SHB2 1KV 4X1.5mm <sup>2</sup> HSLCH
1KV2050150SVJSHB2	CAELIFLEX-B SHB2 1KV 5X1.5mm <sup>2</sup> HSLCH
1KV2070150SVJSHB2	CAELIFLEX-B SHB2 1KV 7X1.5mm <sup>2</sup> HSLCH
1KV2120150SVJSHB2	CAELIFLEX-B SHB2 1KV 12X1.5mm <sup>2</sup> HSLCH
1KV2190150SVJSHB2	CAELIFLEX-B SHB2 1KV 19X1.5mm <sup>2</sup> HSLCH
1KV2270150SVJSHB2	CAELIFLEX-B SHB2 1KV 27X1.5mm <sup>2</sup> HSLCH
1KV2030250SVJSHB2	CAELIFLEX-B SHB2 1KV 3X2.5mm <sup>2</sup> HSLCH
1KV2040250SVJSHB2	CAELIFLEX-B SHB2 1KV 4X2.5mm <sup>2</sup> HSLCH
1KV2050250SVJSHB2	CAELIFLEX-B SHB2 1KV 5X2.5mm <sup>2</sup> HSLCH
1KV2070250SVJSHB2	CAELIFLEX-B SHB2 1KV 7X2.5mm <sup>2</sup> HSLCH
1KV2120250SVJSHB2	CAELIFLEX-B SHB2 1KV 12X2.5mm <sup>2</sup> HSLCH
1KV2190250SVJSHB2	CAELIFLEX-B SHB2 1KV 19X2.5mm <sup>2</sup> HSLCH
1KV2040400SVJSHB2	CAELIFLEX-B SHB2 1KV 4X4mm <sup>2</sup> HSLCH
1KV2040600SVJSHB2	CAELIFLEX-B SHB2 1KV 4X6mm <sup>2</sup> HSLCH

# FLEXIBLE CABLES FOR CONTROL COMMAND



## SHIELDED MULTI-CONDUCTOR DIN 47100 COLOR-CODE

HIFLEX-CH CPR B2ca



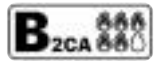
- LSZH grey outer sheath
- CPR rating B2ca s1a, d1, a1
- Flexible copper core class 5
- Tinned copper braid shielding, 85% covering
- DIN 47100 marking
- Halogen-free special-blend insulation
- Operating voltage: 300/500V

PART NUMBER	DESCRIPTION
90210025SHB2	HIFLEX-CH 2X0,25mm <sup>2</sup> LIHCH
90310025SHB2	HIFLEX-CH 3X0,25mm <sup>2</sup> LIHCH
90410025SHB2	HIFLEX-CH 4X0,25mm <sup>2</sup> LIHCH
90510025SHB2	HIFLEX-CH 5X0,25mm <sup>2</sup> LIHCH
90610025SHB2	HIFLEX-CH 6X0,25mm <sup>2</sup> LIHCH
90710025SHB2	HIFLEX-CH 7X0,25mm <sup>2</sup> LIHCH
90810025SHB2	HIFLEX-CH 8X0,25mm <sup>2</sup> LIHCH
91010025SHB2	HIFLEX-CH 10X0,25mm <sup>2</sup> LIHCH
91210025SHB2	HIFLEX-CH 12X0,25mm <sup>2</sup> LIHCH
91910025SHB2	HIFLEX-CH 19X0,25mm <sup>2</sup> LIHCH
92510025SHB2	HIFLEX-CH 25X0,25mm <sup>2</sup> LIHCH
93710025SHB2	HIFLEX-CH 37X0,25mm <sup>2</sup> LIHCH
94010025SHB2	HIFLEX-CH 40X0,25mm <sup>2</sup> LIHCH
90210034SHB2	HIFLEX-CH 2X0,34mm <sup>2</sup> LIHCH
90310034SHB2	HIFLEX-CH 3X0,34mm <sup>2</sup> LIHCH
90410034SHB2	HIFLEX-CH 4X0,34mm <sup>2</sup> LIHCH
90510034SHB2	HIFLEX-CH 5X0,34mm <sup>2</sup> LIHCH
90710034SHB2	HIFLEX-CH 7X0,34mm <sup>2</sup> LIHCH
90810034SHB2	HIFLEX-CH 8X0,34mm <sup>2</sup> LIHCH
91010034SHB2	HIFLEX-CH 10X0,34mm <sup>2</sup> LIHCH
91210034SHB2	HIFLEX-CH 12x0,34mm <sup>2</sup> LIHCH
91610034SHB2	HIFLEX-CH 16X0,34mm <sup>2</sup> LIHCH
91910034SHB2	HIFLEX-CH 19X0,34mm <sup>2</sup> LIHCH
92710034SHB2	HIFLEX-CH 27X0,34mm <sup>2</sup> LIHCH
93710034SHB2	HIFLEX-CH 37X0,34mm <sup>2</sup> LIHCH
94010034SHB2	HIFLEX-CH 40X0,34mm <sup>2</sup> LIHCH
90210050SHB2	HIFLEX-CH 2X0,5mm <sup>2</sup> LIHCH
90310050SHB2	HIFLEX-CH 3X0,5mm <sup>2</sup> LIHCH
90410050SHB2	HIFLEX-CH 4X0,5mm <sup>2</sup> LIHCH
90510050SHB2	HIFLEX-CH 5X0,5mm <sup>2</sup> LIHCH
90710050SHB2	HIFLEX-CH 7X0,5mm <sup>2</sup> LIHCH
90810050SHB2	HIFLEX-CH 8X0,5mm <sup>2</sup> LIHCH

PART NUMBER	DESCRIPTION
91210050SHB2	HIFLEX-CH 12X0,5mm <sup>2</sup> LIHCH
91610050SHB2	HIFLEX-CH 16X0,5mm <sup>2</sup> LIHCH
91910050SHB2	HIFLEX-CH 19X0,5mm <sup>2</sup> LIHCH
92710050SHB2	HIFLEX-CH 27X0,5mm <sup>2</sup> LIHCH
93710050SHB2	HIFLEX-CH 37X0,5mm <sup>2</sup> LIHCH
90210075SHB2	HIFLEX-CH 2X0,75mm <sup>2</sup> LIHCH
90310075SHB2	HIFLEX-CH 3X0,75mm <sup>2</sup> LIHCH
90410075SHB2	HIFLEX-CH 4X0,75mm <sup>2</sup> LIHCH
90510075SHB2	HIFLEX-CH 5X0,75mm <sup>2</sup> LIHCH
90710075SHB2	HIFLEX-CH 7X0,75mm <sup>2</sup> LIHCH
90810075SHB2	HIFLEX-CH 8X0,75mm <sup>2</sup> LIHCH
91210075SHB2	HIFLEX-CH 12X0,75mm <sup>2</sup> LIHCH
91910075SHB2	HIFLEX-CH 19X0,75mm <sup>2</sup> LIHCH
92710075SHB2	HIFLEX-CH 27X0,75mm <sup>2</sup> LIHCH
93710075SHB2	HIFLEX-CH 37X0,75mm <sup>2</sup> LIHCH
90210100SHB2	HIFLEX-CH 2X1mm <sup>2</sup> LIHCH
90310100SHB2	HIFLEX-CH 3X1mm <sup>2</sup> LIHCH
90410100SHB2	HIFLEX-CH 4X1mm <sup>2</sup> LIHCH
90510100SHB2	HIFLEX-CH 5X1mm <sup>2</sup> LIHCH
90710100SHB2	HIFLEX-CH 7X1mm <sup>2</sup> LIHCH
90810100SHB2	HIFLEX-CH 8X1mm <sup>2</sup> LIHCH
91210100SHB2	HIFLEX-CH 12X1mm <sup>2</sup> LIHCH
91910100SHB2	HIFLEX-CH 19X1mm <sup>2</sup> LIHCH
92710100SHB2	HIFLEX-CH 27X1mm <sup>2</sup> LIHCH
93710100SHB2	HIFLEX-CH 37X1mm <sup>2</sup> LIHCH
90210150SHB2	HIFLEX-CH 2X1,5mm <sup>2</sup> LIHCH
90310150SHB2	HIFLEX-CH 3X1,5mm <sup>2</sup> LIHCH
90410150SHB2	HIFLEX-CH 4X1,5mm <sup>2</sup> LIHCH
90510150SHB2	HIFLEX-CH 5X1,5mm <sup>2</sup> LIHCH
90710150SHB2	HIFLEX-CH 7X1,5mm <sup>2</sup> LIHCH
91210150SHB2	HIFLEX-CH 12X1,5mm <sup>2</sup> LIHCH

If you require **unshielded** HIFLEX-H LIHH B2ca, please contact us.

# FLEXIBLE CABLES FOR DATA TRANSMISSION



## MULTI-PAIRS SHIELDED DIN 47100 COLOR-CODE

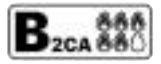
HIFLEX-CH TP CPR B2ca



- LSZH grey outer sheath
- CPR rating B2ca s1a, d1, a1
- Flexible copper core class 5
- Assembled in pairs
- Tinned copper braid shielding, 85% covering
- DIN 47100 color-code
- Halogen-free special-blend insulation
- Operating voltage: 300/500V

PART NUMBER	DESCRIPTION
MCP225SHB2	HIFLEX-CH TP 2X2X0,25mm <sup>2</sup> LIHCH-TP
MCP325SHB2	HIFLEX-CH TP 3X2X0,25mm <sup>2</sup> LIHCH-TP
MCP425SHB2	HIFLEX-CH TP 5X2X0,25mm <sup>2</sup> LIHCH-TP
MCP525SHB2	HIFLEX-CH TP 5X2X0,25mm <sup>2</sup> LIHCH-TP
MCP725SHB2	HIFLEX-CH TP 7X2X0,25mm <sup>2</sup> LIHCH-TP
MCP1225SHB2	HIFLEX-CH TP 12X2X0,25mm <sup>2</sup> LIHCH-TP
MCP234SHB2	HIFLEX-CH TP 2X2X0,34mm <sup>2</sup> LIHCH-TP
MCP334SHB2	HIFLEX-CH TP 3X2X0,34mm <sup>2</sup> LIHCH-TP
MCP434SHB2	HIFLEX-CH TP 4X2X0,34mm <sup>2</sup> LIHCH-TP
MCP534SHB2	HIFLEX-CH TP 5X2X0,34mm <sup>2</sup> LIHCH-TP
MCP734SHB2	HIFLEX-CH TP 7X2X0,34mm <sup>2</sup> LIHCH-TP
MCP1234SHB2	HIFLEX-CH TP 12x2x0,34mm <sup>2</sup> LIHCH-TP
MCP250SHB2	HIFLEX-CH TP 2X2X0,5mm <sup>2</sup> LIHCH-TP
MCP350SHB2	HIFLEX-CH TP 3X2X0,5mm <sup>2</sup> LIHCH-TP
MCP450SHB2	HIFLEX-CH TP 4X2X0,5mm <sup>2</sup> LIHCH-TP
MCP550SHB2	HIFLEX-CH TP 5X2X0,5mm <sup>2</sup> LIHCH-TP
MCP750SHB2	HIFLEX-CH TP 7X2X0,5mm <sup>2</sup> LIHCH-TP
MCP1250SHB2	HIFLEX-CH TP 12X2X0,5mm <sup>2</sup> LIHCH-TP
MCP275SHB2	HIFLEX-CH TP 2X2X0,75mm <sup>2</sup> LIHCH-TP
MCP375SHB2	HIFLEX-CH TP 3X2X0,75mm <sup>2</sup> LIHCH-TP
MCP475SHB2	HIFLEX-CH TP 4X2X0,75mm <sup>2</sup> LIHCH-TP
MCP575SHB2	HIFLEX-CH TP 5X2X0,75mm <sup>2</sup> LIHCH-TP
MCP775SHB2	HIFLEX-CH TP 7X2X0,75mm <sup>2</sup> LIHCH-TP
MCP1275SHB2	HIFLEX-CH TP 12X2X0,75mm <sup>2</sup> LIHCH-TP
MCP2100SHB2	HIFLEX-CH TP 2X2X1mm <sup>2</sup> LIHCH-TP
MCP3100SHB2	HIFLEX-CH TP 3X2X1mm <sup>2</sup> LIHCH-TP
MCP4100SHB2	HIFLEX-CH TP 4X2X1mm <sup>2</sup> LIHCH-TP
MCP5100SHB2	HIFLEX-CH TP 5X2X1mm <sup>2</sup> LIHCH-TP
MCP7100SHB2	HIFLEX-CH TP 7X2X1mm <sup>2</sup> LIHCH-TP
MCP12100SHB2	HIFLEX-CH TP 12X2X1mm <sup>2</sup> LIHCH-TP

# FLEXIBLE CABLES FOR DATA TRANSMISSION



## MULTI-PAIRS SHIELDED DIN 47100 COLOR-CODE

### HIFLEX-CH TP CPR B2ca s1a, d0, a1

B2ca is the highest possible rating for thermoplastic cables.

The additional d0 rating means that the cable will not generate droplets or debris during a fire.

The d1 rating means that, if flaming droplets or debris fall, they must burn out in less than 10 seconds.

HIFLEX-CH TP with CPR B2ca s1a d0 a1 rating is used for genephone applications in tunnels.



- LSZH grey outer sheath
- CPR rating B2ca s1a, d0, a1
- Flexible copper core class 5
- Assembled in pairs
- Tinned copper braid shielding, 85% covering
- DIN 47100 color-code
- Halogen-free special-blend insulation
- Operating voltage: 300/500V

PART NUMBER	DESCRIPTION
MCP4150SHB2D0	HIFLEX-CH TP 4X2X1,5mm <sup>2</sup> LiHCH-TP B2ca s1a d0 a1
MCP4250SHB2D0	HIFLEX-CH TP 4X2X2,5mm <sup>2</sup> LiHCH-TP B2ca s1a d0 a1

## Genephone<sup>®</sup> applications in railway tunnels:

The genephone<sup>®</sup> is a telephone that does not require any external power source. The power source is provided by the user's voice within a transmitter.

The transmitter features a membrane that moves according to the rhythm of the acoustic waves from the voice, and a vane linked to the membrane traveling in a magnetic field (magnet).

As it moves through the magnetic field, the vane generates electrical impulses in a coil that surrounds it. It's the same process as a dynamo on a bicycle.

These electrical impulses are collected in a receiver also equipped with a vane and a membrane. The electrical impulses generated by an electromagnetic field cause the vane, and therefore the membrane, to move. It's the opposite operating mode of a transmitter. Transmitters and receivers are therefore reversible.

# DATA TRANSMISSION CABLES

## BUS CABLES

### BUS PROFIBUS LSZH C1

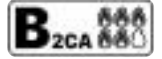


- LSZH purple outer sheath
- Non-fire propagator in compliance with NF C32-070 category C1
- Non-flame propagator in compliance with NF C32-070 category C2
- SIEMENS® L2-DP, FIP system
- Cellular Polyolefin Insulator
- Static installations

PART NUMBER	DESCRIPTION
CBUSPLSZHC1	ROFIBUS 1P0.64 AWG22 LSZH sheath C1 Purple

Packaging : Cut to size on request

### CBUS EIB B2ca



- LSZH green outer sheath
- B2ca, s1a, d0, a1
- Non-flame propagator IEC 60332-1 & IEC 60332-3-24
- Technical management of tertiary and industrial buildings
- Sensors, lighting, air conditioning, ventilation...

PART NUMBER	DESCRIPTION
CBUSEIBSHBT500	BUS cable EIB / KNX 2X2X080mm <sup>2</sup> LSZH B2ca - 500m cable reel

Packaging : Cut to size on request

### Coaxial cable 75Ω



- Green LSZH double sheath
- Non-fire propagator in compliance with NF C32-070 category C1
- Non-flame propagator in compliance with NF C32-070 category C2
- Analog and digital video transmission
- Double shielding aluminum strip + tinned copper braid

PART NUMBER	DESCRIPTION
XK100SGSHC1	COAX 75 OHMS 7 X 0.40 SH C1

Packaging : Cut to size on request  
Armored version : On request

### Armored coaxial cable 75Ω Cca



- LSZH double sheath
- Cca s1, d1, a1
- Non-fire propagator in compliance with NF C32-070 category C1
- Non-flame propagator in compliance with NF C32-070 category C2
- Analog and digital video transmission
- Double shielding aluminum strip + tinned copper braid

PART NUMBER	DESCRIPTION
XK100ARLSZHC10	XK100 armored LSZH 75 OHMS - Cca

Packaging : Cut to size on request



# SPEAKER CABLES

## LSZH C1 SPEAKER CABLES

### Shielded unarmored C1



- Brown RAL 8003 LSZH outer sheath
- Non-fire propagator in compliance with NF C32-070 category C1
- Non-flame propagator in compliance with NF C32-070 category C2
- Tinned copper braided shielding
- LSZH insulation

PART NUMBER	DÉSIGNATION
FHP215BLSHC1	Shielded speaker cable 2X1.5
FHP415BLSHC1	Shielded speaker cable 4X1.5

Packaging : Please contact us

### Shielded double armor C1



- Brown RAL 8003 LSZH sheaths
- Non-fire propagator in compliance with NF C32-070 category C1
- Non-flame propagator in compliance with NF C32-070 category C2
- Double steel strap armor
- Tinned copper braided shielding
- LSZH insulation

PART NUMBER	DÉSIGNATION
FHP215BLARSHC1	Double Armor Steel Shielded Speaker Cable 2X1.5
FHP415BLARSHC1	Double Armor Steel Shielded Speaker Cable 4X1.5
FHP715BLARSHC1	Double Armor Steel Shielded Speaker Cable 7X1.5

Packaging : Please contact us

# DIGITAL TELEPHONE CABLES

## LSZH C1 TELEPHONE CABLES

### SYT 1 LSZH C1 UNARMORED CABLE



- Brown RAL 8003 LSZH outer sheath
- Non-fire propagator in compliance with NF C32-070 category C1
- Non-flame propagator in compliance with NF C32-070 category C2
- Single stranded AWG24 and AWG20
- Indoor installation

PART NUMBER	DESCRIPTION
SYT120SHC1	SYT 1P AWG20 LSZH C1
SYT220SHC1	SYT 2P AWG20 LSZH C1
SYT320SHC1	SYT 3P AWG20 LSZH C1
SYT520SHC1	SYT 5P AWG20 LSZH C1
SYT720SHC1	SYT 7P AWG20 LSZH C1
SYT1020SHC1	SYT 10P AWG20 LSZH C1
SYT1520SHC1	SYT 15P AWG20 LSZH C1
SYT2120SHC1	SYT 21P AWG20 LSZH C1
SYT3020SHC1	SYT 30P AWG20 LSZH C1
SYT4220SHC1	SYT 42P AWG20 LSZH C1
SYT5620SHC1	SYT 56P AWG20 LSZH C1
SYT11220SHC1	SYT 112P AWG20 LSZH C1
SYT124SHC1	SYT 1P AWG24 LSZH C1
SYT224SHC1	SYT 2P AWG24 LSZH C1
SYT324SHC1	SYT 3P AWG24 LSZH C1
SYT524SHC1	SYT 5P AWG24 LSZH C1
SYT724SHC1	SYT 7P AWG24 LSZH C1
SYT1024SHC1	SYT 10P AWG24 LSZH C1
SYT1524SHC1	SYT 15P AWG24 LSZH C1
SYT2124SHC1	SYT 21P AWG24 LSZH C1
SYT3024SHC1	SYT 30P AWG24 LSZH C1
SYT4224SHC1	SYT 42P AWG24 LSZH C1
SYT5624SHC1	SYT 56P AWG24 LSZH C1
SYT11224SHC1	SYT 112P AWG24 LSZH C1

Packaging: Please contact us  
 Other cross-sections and number of conductors: Please contact us  
 Other sheath colors: Available on request

### SYT 2 LSZH C1 ARMORED CABLE



- Brown RAL 8003 LSZH sheaths
- Non-fire propagator in compliance with NF C32-070 category C1
- Non-flame propagator in compliance with NF C32-070 category C2
- Single stranded AWG24 and AWG20
- Outdoor installation
- Double steel strap armor

PART NUMBER	DESCRIPTION
SYT2220SHC1	SYT2 2P AWG20 LSZH C1
SYT2320SHC1	SYT2 3P AWG20 LSZH C1
SYT2520SHC1	SYT2 5P AWG20 LSZH C1
SYT2720SHC1	SYT2 7P AWG20 LSZH C1
SYT21020SHC1	SYT2 10P AWG20 LSZH C1
SYT21520SHC1	SYT2 15P AWG20 LSZH C1
SYT22120SHC1	SYT2 21P AWG20 LSZH C1
SYT23020SHC1	SYT2 30P AWG20 LSZH C1
SYT24220SHC1	SYT2 42P AWG20 LSZH C1
SYT25620SHC1	SYT2 56P AWG20 LSZH C1
SYT211220SHC1	SYT2 112P AWG20 LSZH C1
SYT2224SHC1	SYT2 2P AWG24 LSZH C1
SYT2324SHC1	SYT2 3P AWG24 LSZH C1
SYT2524SHC1	SYT2 5P AWG24 LSZH C1
SYT2724SHC1	SYT2 7P AWG24 LSZH C1
SYT21024SHC1	SYT2 10P AWG24 LSZH C1
SYT21524SHC1	SYT2 15P AWG24 LSZH C1
SYT22124SHC1	SYT2 21P AWG24 LSZH C1
SYT23024SHC1	SYT2 30P AWG24 LSZH C1
SYT24224SHC1	SYT2 42P AWG24 LSZH C1
SYT25624SHC1	SYT2 56P AWG24 LSZH C1
SYT211224SHC1	SYT2 112P AWG24 LSZH C1

Packaging: Please contact us  
 Other cross-sections and number of conductors: Please contact us  
 Other sheath colors: Available on request

# DIGITAL TELEPHONE CABLES

## B2ca TELEPHONE CABLES

### SYT 2 LSZH B2ca ARMORED CABLE



- Core: copper
- AWG20: from 2 to 112 pairs
- AWG24: from 5 to 112 pairs
- Assembled in pairs
- Double steel strap armor
- Outer sheath: LSZH B2ca s1a, d1, a1
- Brown (black on request)

PART NUMBER	DESCRIPTION
SYT2220SHB2	SYT2 2P AWG20 LSZH B2ca
SYT2320SHB2	SYT2 3P AWG20 LSZH B2ca
SYT2520SHB2	SYT2 5P AWG20 LSZH B2ca
SYT2720SHB2	SYT2 7P AWG20 LSZH B2ca
SYT21020SHB2	SYT2 10P AWG20 LSZH B2ca
SYT21520SHB2	SYT2 15P AWG20 LSZH B2ca
SYT22120SHB2	SYT2 21P AWG20 LSZH B2ca
SYT23020SHB2	SYT2 30P AWG20 LSZH B2ca
SYT24220SHB2	SYT2 42P AWG20 LSZH B2ca
SYT25620SHB2	SYT2 56P AWG20 LSZH B2ca
SYT211220SHB2	SYT2 112P AWG20 LSZH B2ca
SYT2224SHB2	SYT2 2P AWG24 LSZH B2ca
SYT2324SHB2	SYT2 3P AWG24 LSZH B2ca
SYT2524SHB2	SYT2 5P AWG24 LSZH B2ca
SYT2724SHB2	SYT2 7P AWG24 LSZH B2ca
SYT21024SHB2	SYT2 10P AWG24 LSZH B2ca
SYT21524SHB2	SYT2 15P AWG24 LSZH B2ca
SYT22124SHB2	SYT2 21P AWG24 LSZH B2ca
SYT23024SHB2	SYT2 30P AWG24 LSZH B2ca
SYT24224SHB2	SYT2 42P AWG24 LSZH B2ca
SYT25624SHB2	SYT2 56P AWG24 LSZH B2ca
SYT211224SHB2	SYT2 112P AWG24 LSZH B2ca

# COPPER LAN CABLES

## CATEGORY 5E CABLES



- AWG23
- Suitable for harsh environments (outdoor, industrial)
- Available in extra-flexible version for installation in cable chains

DESCRIPTION	500M REEL	1000M REEL	2500M REEL
Cat5e 1x4P SF/UTP AWG24/1 LSZH solid IN/OUT single-strand black cable	SFU1004SHINOUT	-	-
Cat5e 1x4P SF/UTP AWG24/1 PUR solid single-strand green cable	-	SFU1004PUR10	-
Cat5e 1x4P SF/UTP AWG26/7 PUR flexible multi-strand green cable	-	-	SFU100P4PUR25
Cat5e 1x4P SF/UTP AWG26/19 PUR extra-flexible multi-strand green cable	-	SFU100XP4PUR10	-

## CATEGORY 6 CABLES



- For IP links with data rates up to 1 Gbit
- For wiring Wifi terminals, IP cameras and links requiring AWG23 section
- Supports POE+ application (30W)
- Available in PE sheath for external connections

## AWG23 SOLID CABLES

DESCRIPTION	305M BOX	500M REEL
<b>FOR INDOOR USE</b>		
100 Ω U/UTP 4P 250 MHz Cat6 LSZH blue cable	VG64SHB	
100 Ω U/UTP 2x4P 250 MHz Cat6 LSZH blue cable		VG68SH5
100 Ω F/UTP 4P 350 MHz Cat6 LSZH blue cable	CX64SHB	CX64SH5
100 Ω F/UTP 2x4P 350 MHz Cat6 LSZH blue cable		CX68SH5

DESCRIPTION	500M REEL
<b>FOR OUTDOOR USE</b>	
100 Ω U/UTP 4P 250 MHz Cat6 black PE sheath cable	VG64PE5
100 Ω F/UTP 4P 350 MHz Cat6 black PE sheath cable	CX64PE5


# COPPER LAN CABLES

## CATEGORY 6 CABLES



- For IP links with data rates up to 10 Gbit
- For IP cabling of any equipment requiring a high bandwidth and a higher degree of performance
- 4PPoE compatible
- Available in PE sheath for external connections

### AWG23 SOLID CABLES

DESCRIPTION	100M COIL	305M BOX	500M REEL
<b>FOR INDOOR USE</b> 			
100 Ω F/UTP 4P 510 MHz Cat6A LSZH purple cable	FU5104SH1	-	FU5104SH5
100 Ω F/UTP 2x4P 510 MHz Cat6A LSZH purple cable	-	-	FU5108SH5
<hr/>			
100 Ω U/FTP 4P 525 MHz Cat6A LSZH purple cable	5254SH1	5254SHB	5254SH5
100 Ω U/FTP 2x4P 525 MHz Cat6A LSZH purple cable	-	-	5258SH5
<hr/>			
100 Ω F/FTP 4P 555 MHz Cat6A LSZH purple cable	F5554SH1	F5554SHB	F5554SH5
100 Ω F/FTP 2x4P 555 MHz Cat6A LSZH purple cable	-	-	F5558SH5
<b>FOR OUTDOOR USE</b>			
100 Ω U/FTP 4P Cat6A black cable with PE aerial use <b>[Exclusivity]</b>			5254PEAM
Cat6A 1x4P U/FTP AWG23/1 LSZH IN/OUT black cable			5254SHINOUT
Cat6A 1x4P U/FTP AWG23/1 armored PE black cable			5254ARPE

### AWG26 FLEXIBLE CABLES


DESCRIPTION	1000M REEL
100 Ω U/FTP 4P Cat6A grey LSZH - AWG26 stranded	555P4SH

## CATEGORY 6 CABLES



- For IP links with data rates up to 10 Gbit
- 4PPoE compatible
- Available in two CPR levels:
  - B2ca s1, d1, a1
  - Cca s1, d1, a1

### AWG23 solid cables

DESCRIPTION	CCA LEVEL	B2CA LEVEL
100 Ω U/FTP 4P 525 MHz Cat6A LSZH purple cable	5254SHC5	
100 Ω U/FTP 2x4P 525 MHz Cat6A LSZH purple cable	5258SHC5	
<hr/>		
100 Ω F/FTP 4P 555 MHz Cat6A LSZH purple cable	F5554SHC5	
100 Ω F/FTP 2x4P 555 MHz Cat6A LSZH purple cable	F5558SHC5	
<hr/>		
100 Ω S/FTP 4P 500 MHz Cat6A LSZH white cable	SF5004SHWC5	
		
<hr/>		
100 Ω S/FTP 4P Cat6A black cable		SF5004SHNB25

Packaging: 500 m reel

# COPPER LAN CABLES

## CATEGORY 7 CABLES



- AWG23
- Suitable for harsh environments (outdoor, industrial)
- Available in extra-flexible version for installation in cable chains

DESCRIPTION	1000M REEL
Cat7 S/FTP 1x4P AWG23/1 PUR single-strand solid green cable	SF6004PUR10
Cat7 S/FTP 1x4P AWG26/7 PUR multi-strand flexible green cable	SF600P4PUR10

## CATEGORY 7 S/FTP CABLES



- 4PPoE compatible
- Strong low-frequency electromagnetic disturbances
- Braiding provides a superior flexibility/protection balance

AWG23 solid cables tested 600 MHz tested

DESCRIPTION	500M REEL
100 Ω S/FTP 4P 600 MHz Cat7 LSZH purple cable	60045SHEV
100 Ω S/FTP 2x4P 600 MHz Cat7 LSZH purple cable	60085SHEV

## CATEGORY 7 CABLES S/FTP 600 MHZ - AWG23



- Strong low-frequency electromagnetic disturbances
- Braiding provides a superior flexibility/protection balance
- Available in two CPR levels:
  - B2ca s1a, d1, a1
  - Cca s1a, d1, a1



DESCRIPTION	CCA LEVEL	B2CA LEVEL
100 Ohm S/FTP 4P 600 MHz Cat7 LSZH cable	6004SHC5	6004SHB25

Packaging: 500 m reel

# COPPER LAN CABLES

## CATEGORY 7A S/FTP CABLES



- AWG22 cable with very low resistance:
  - Optimized 4PPoE performance thanks to reduced heat emission due to Joule effect
  - Low attenuation even over long distances
- Excellent EMC for connections in highly disturbed industrial environments
- Outdoor version (SHINOUT) for extreme operating conditions (-30°C/+70°C, 95% humidity)

### 1200 MHz - AWG22 SOLID CABLES



DESCRIPTION	
<b>FOR INDOOR USE</b>	
100 Ω S/FTP 4P 1200 MHz Cat7A LSZH yellow sheath cable	SF12004SH5
100 Ω S/FTP 2x4P 1200 MHz Cat7A LSZH yellow sheath cable	SF12008SH5
<b>COMBINED INDOOR/OUTDOOR USE</b>	
100 Ω S/FTP 4P 1200 MHz Cat7A LSZH black sheath cable	SF12004SHINOUT

### 1000 MHz - AWG23 SOLID CABLES



DESCRIPTION	
<b>FOR INDOOR USE</b>	
100 Ω S/FTP 4P 1000 MHz Cat7A LSZH yellow sheath cable	SF10004SH5
100 Ω S/FTP 2x4P 1000 MHz Cat7A LSZH yellow sheath cable	SF10008SH5
100 Ω S/FTP 1x4P Cat7A LSZH brown sheath	SF10004SHMC5

Packaging: 500 m reel

## CATEGORY 7A S/FTP 1200 MHZ - AWG22 CABLES



- Yellow outer sheath
- AWG22 cable with very low resistance:
  - Optimized 4PPoE performance thanks to reduced heat emission due to Joule effect
  - Low attenuation even over long distances
- Excellent EMC for connections in highly disturbed industrial environments
- Available in CPR levels Cca s1a, d1, a1



DESCRIPTION	
100 Ω S/FTP 4P 1200 MHz Cat7A LSZH cable	SF12004SHC5
100 Ω S/FTP 2x4P 1200 MHz Cat7A LSZH cable	SF12008SHC5

Packaging: 500 m reel

# COPPER CONNECTIVITY

## 5X AND BC RANGES

5X component certified, 4PPoE connectors



DESCRIPTION	BOX OF 8 PCS
5X range RJ45 CAT6A shielded connector	5X6AFS8
5X Series RJ45 CAT8 shielded connector	5X8FS8
	BOX OF 48 PCS
5X range RJ45 CAT6A shielded connector	5X6AFS48

### 5X Panel



PART NUMBER	DESCRIPTION
5XPAN1U	19" 1U 5X range patch panel

### BC Panel



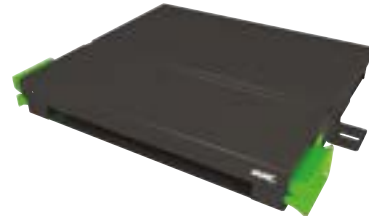
PART NUMBER	DESCRIPTION
BCPAN1U	19" 1U BC range patch panel

### BC TL CONNECTORS certified components



PART NUMBER	DESCRIPTION
<b>CATEGORY 6A</b>	
BC6AFSTL8	Tooless 360° EMC shielded RJ45 Cat6A connector - Bag of 8
BCDUSTSHx8*	Shutter for BC TL connector - Bag of 8

### Consolidation box



PART NUMBER	DESCRIPTION
BCBOXFS12	Metal box with 12 RJ45 connectors

\* Replace x with the initial of the desired color  
BL for white / B for blue / V for green / R for red / J for yellow



# IP-LINK

## PLUGS FOR SOLID AND FLEXIBLE CABLES

Plugs Category 5e & 6  
for solid and flexible cables

PART NUMBER	DESCRIPTION
MMCRJ45SC5UNIV	Shielded Cat5e plug for solid cable - Box of 100
MMCRJ45SC6SI	Shielded Cat6 plug for flexible cable - Box of 100

Tooless Category 6A plugs - for solid and flexible cables



PART NUMBER	DESCRIPTION
PLST6AFS	Tooless Cat6A 360° shielded plug
I4PLEC6AFS	Tooless 360° Cat6A shielded field plug

Angled Category 6A plug  
135° removable head for solid cables



PART NUMBER	DESCRIPTION
PLAG6AFS	Shielded Cat6A angled plug for shielded cables

Category 6 Plugs  
for solid cables up to AWG23



PART NUMBER	DESCRIPTION
MMCRJ45SC6BW1	Cat6 shielded plug - Box of 100
MMCP86METBW	Crimping tool for MMCRJ45SC6BW1 plugs
MRJBWG1	Grey sleeve for RJ45 - Diameter < 7.5 mm
MRJBWN1	Black sleeve for RJ45 - Diameter < 7.5 mm

Category 6A plugs for flexible cables  
AWG24 to AWG26



PART NUMBER	DESCRIPTION
MMCRJ45SC6A	Shielded Cat6A plug for flexible cable - Box of 100
MRJSR6x	Humped boot for RJ45 - Cable diameter < 6 mm
MRJTSx	RJ45 smooth boot - Cable diameter < 6 mm
MMCP86MET	Crimping tool for plugs with 6/8 contacts

Sleeves available in Black / Grey / Blue / Yellow / Red / Green

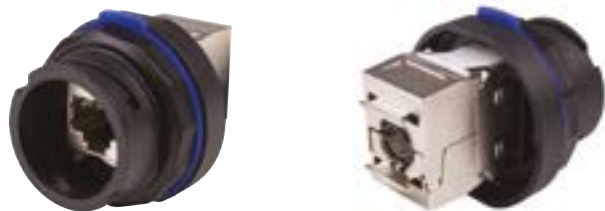
CHOOSE YOUR PLUG CAREFULLY!

	PLST6AFS	PLAG6AFS	MMCRJ45SC6BW1
	Shielded Cat6 plug	Multifunctional plug Cat6A shielded	Shielded Cat6 plug
CONNECTIONS	Tooless	Tooless	To be crimped with the same crimping tool MMCP86METBW
CABLES	Flexible solid cables AWG26 - AWG23	Solid cables: AWG26 - AWG23 All cables : Cat5e, Cat6, Cat6A	Flexible & solid cables AWG24 - AWG23 All Cat6 and Cat6A cables with a nominal outer cable diameter of 7.50mm +/- 0.25mm and a diameter over insulation < 1.2 mm
BENEFITS		Minimal space required Compact 135° rotating head Tooless rapid connection	Perfectly waterproof thanks to its sleeve (MRJBWx1) Compact Cost-effective

# WATERPROOF CONNECTIVITY

## I4 WATERPROOF IP68 RANGE

### RJ45 IP68 CONNECTOR



- Toolless RJ45 Cat6A IP68 connector: quick and easy wiring
- IP68 waterproof body with sealed gasket: for connecting twisted-pair cables in extreme environments
- Excellent protection against electromagnetic interference, thanks to 360° shielding

PART NUMBER	DESCRIPTION
I46AFSIP68	RJ45 IP68 Cat6A Toolless 360° shielded connector

### IP68 FEMALE COUPLER



- RJ45 female - female Cat6A coupler
- IP68 enclosure for connection in harsh environments
- Class Ea Link Performance

PART NUMBER	DESCRIPTION
I4COUPL6AIP68	RJ45 Coupler IP68 360° shielded Cat6A female/female

### IP68 FIELD PLUG



- Protection class IP68
- ZAMAC 360° shielding
- 1/4 turn waterproof lock
- Easy and rapid wiring
- 4PPoE compliant

PART NUMBER	DESCRIPTION
I4PLST6ASIP68	Shielded RJ45 plug IP68 AWG26-22

### RJ45 IP68 PLUG



- Plug RJ45 Cat6A IP68
- IP68 enclosure for connection in harsh environments
- Allows the connection of flexible links such as patch cords up to AWG24

PART NUMBER	DESCRIPTION
I4PLUGIP68	Shielded Cat6A IP68 RJ45 plug

### CAT6A IP68 JUNCTION



- Protection class IP68
- ZAMAC 360° shielding
- 1/4 turn waterproof lock
- Easy and rapid wiring
- 4PPoE compliant

PART NUMBER	DESCRIPTION
I4JONC6AIP68	IP68 waterproof junction for Cat6A LAN cable connection

### KIT IP67 JUNCTION BOXES



- IP67 connection box
- For connecting consolidation links or cords
- Suitable for industrial and outdoor installations
- Can accommodate 1 or 2 RJ45 Cat6A IP68 connectors and/or Cat6A IP68 couplers
- Supplied with PG11 cable gland

PART NUMBER	DESCRIPTION
I4BOXKIT1C	IP67 box for 1 connector Industry 4.0 range
I4BOXKIT2C	IP67 box for 2 connectors Industry 4.0 range

# WATERPROOF CONNECTORS

## IP68 SEAM CAPS



PART NUMBER	DESCRIPTION	PACKAGING
I4CAPRJ	Cap for connector or coupler	Unit
I4CAPPLUG	Cap for plug	Unit

## IP68 USB 3.0 SHIELDED CONNECTOR



- IP68 protection for harsh environments (waterproof and dustproof)
- USB 3.0 connector
- 1/4 turn lock

PART NUMBER	DESCRIPTION
I4USB3IP68	IP68 USB 3.0 connector Delivered with USB 3.0 plug and its 1.5m cable

## IP68 COUPLER



- IP68 protection rating suitable for harsh environments (waterproof and dustproof)
- 1/4 turn waterproof lock
- USB 3.0 connector type A-A

PART NUMBER	DESCRIPTION
I4COUPLUSB3IP68	IP568 USB 3.0 coupler

## CAT6A S/FTP PULYURETHANE CORD



- For industrial and outdoor use
- UV resistant
- High resistance to chemical attacks
- Compatible with I4PLUGIP68 waterproof plugs

PART NUMBER	DESCRIPTION
I4CORD6ASFPUR	RJ45 CAT6A S/FTP PUR cord - Black

Available from 0.5 to 30m

# RJ45 CORDS

## Category 6A S/FTP RJ45 cords



PART NUMBER	DESCRIPTION
CORD6ASF01xMSH	S/FTP 4P Cat6A LSZH 1m cord
CORD6ASF02xMSH	S/FTP 4P Cat6A LSZH 2m cord
CORD6ASF03xMSH	S/FTP 4P Cat6A LSZH 3m cord
CORD6ASF05xMSH	S/FTP 4P Cat6A LSZH 5m cord

For the cord color : replace x with the initial of the desired color:  
B for blue / V for green / R for red / J for yellow / leave blank for grey



## MMC COMPONENT CERTIFIED CORDS

### Category 6A U/FTP RJ45 cords

PART NUMBER	DESCRIPTION
CORD6AS003MSH	U/FTP 4P Cat6A LSZH 0,3m grey cord
CORD6AS005MSH	U/FTP 4P Cat6A LSZH 0,5m grey cord
CORD6AS01MSH	U/FTP 4P Cat6A LSZH 1m grey cord
CORD6AS02MSH	U/FTP 4P Cat6A LSZH 2m grey cord
CORD6AS03MSH	U/FTP 4P Cat6A LSZH 3m grey cord
CORD6AS05MSH	U/FTP 4P Cat6A LSZH 5m grey cord
CORD6AS10MSH	U/FTP 4P Cat6A LSZH 10m grey cord







# TECHNICAL GUIDE: OPTICAL FIBER

## MULTIMODE OR SINGLEMODE?

The ISO 11801 Ed 3.0 standard categorizes optical fiber into 4 main groups: OM3, OM4 and OM5 for multimode, and OS2 for singlemode.

### OVERVIEW OF CURRENT FIBER TYPES

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

### PERFORMANCE OVERVIEW BY FIBER TYPE, APPLICATION AND DISTANCE

APPLICATIONS	WAVELENGTHS NM	MAXIMUM DISTANCE IN METERS ACCORDING TO APPLICATION							
		OM3	NO. OF FIBERS	OM4	NO. OF FIBERS	OM5	NO. OF FIBERS	OS2	NO. OF FIBERS
<b>1000 BASE LX</b>	1300	550	LC 2FO	550	LC 2FO	550	LC 2FO	-	-
<b>10G BASE SR</b>	850	300	LC 2FO	400	LC 2FO	400	LC 2FO	10 000	-
<b>10G BASE LX4</b>	1300 / 1310	300	LC 2FO	300	LC 2FO	300	LC 2FO	10 000	LC 2FO
<b>40G SR4</b>	850	100	MTP 8FO	150	MTP 8FO	150	MTP 8FO	-	-
<b>40G BASE LR4</b>	1310	-	-	-	-	-	-	10 000	MTP 8FO
<b>40G SWDM4</b>	850-950	240	MTP 8FO	350	-	440	LC 2FO	-	-
<b>100G SR4</b>	850	70	MTP 8FO	100	MTP 8FO	100	MTP 8FO	-	-
<b>100G BASE LR4</b>	1310	-	-	-	-	-	-	10 000	MTP 8FO
<b>100G SWDM4</b>	850-950	75	MTP 8FO	100	MTP 8FO	150	LC 2FO	10 000	LC 2FO

# OPTICAL CABLES

All optical cables are packaged in 4000m reels or cut to length\*

\*Minimum cut = 100m

## INTEX Cca - Loose central tube



- Rodent protection
- Good sealing
- Good fire behavior:  
LSZH Cca sheath  
Non-flame propagator

PART NUMBER	DESCRIPTION
INTEXxyyyC	Optical fiber cable with loose central tube - LSZH Cca sheath - IN/OUT

**PART NUMBER structure :** Replace xx with the number of fibers (from 6 to 24)  
yyy by desired performance (OM3 / OM4 / OM5 / OS2)

## EXTALSHxxOS2BP - Steel armor



- Excellent protection against rodents
- Excellent sealing capacity
- High crush resistance
- High UV resistance
- Level CPR B2ca s1a, d0, a1

PART NUMBER	DESCRIPTION
EXTALSHxxOS2BP	OS2 loose fiber optic cable - LSZH purple sheath Steel Armor - B2ca

**PART NUMBER structure :** Replace xx with the number of fibers (from 12 to 48)  
Black sheath : Available on request

## FOFIRE - Fireproof



- XP C93-539 certified
- Orange outer sheath
- Mechanical strength (stretching and crushing)
- Fire-resistant and flame-retardant
- Steel wire armor
- LSZH double sheath

PART NUMBER	DESCRIPTION
FOFIRExyyy	Loose steel wire armor cable with double LSZH inner and outer sheaths

**PART NUMBER structure :** Replace xx with the number of fibers (from 6 to 24)  
yyy by desired performance (OM3 / OM4 / OM5 / OS2)

# OPTICAL CONNECTIVITY

## TC RANGE DRAWERS EQUIPPED



### With adapters



PART NUMBER	DESCRIPTION
TC1U6ALCDOM3	Optical drawer with 6 OM3 LCD adapters
TC1U6ALCDOS2	Optical drawer with 6 OS2 LCD adapters
TC1U12ALCDOM3	Optical drawer with 12 OM3 LCD adapters
TC1U12ALCDOS2	Optical drawer with 12 OS2 LCD adapters
TC1U6ASCDOM3	Optical drawer with 6 SCD OM3 adapters
TC1U6ASCDOS2	Optical drawer with 6 SCD OS2 adapters
TC1U12ASCDOM3	Optical drawer with 12 SCD OM3 adapters
TC1U12ASCDOS2	Optical drawer with 12 SCD OS2 adapters

### With adapters and pigtails



PART NUMBER	DESCRIPTION
TC1U6PLCDOM3	19" 1U sliding TC optical drawer with duplex LC adapters and 6 OM3 pigtails
TC1U6PLCDOM4	19" 1U sliding TC optical drawer with duplex LC adapters and 6 OM4 pigtails
TC1U6PLCDOS2	19" sliding TC optical drawer with LCD adapters and 6 OS2 pigtails
TC1U12PLCDOM3	19" sliding TC optical drawer with LCD adapters and 12 OM3 pigtails
TC1U12PLCDOM4	19" 1U sliding TC optical drawer with duplex LC adapters and 12 OM4 pigtails
TC1U12PLCDOS2	19" sliding TC optical drawer with LCD adapters and 12 OS2 pigtails
TC1U48PLCDOS2	19" sliding TC optical drawer with LCD adapters and 48 OS2 pigtails
TC1U24PLCDOM3	19" 1U sliding TC optical drawer with duplex LC adapters and 24 OM3 pigtails
TC1U24PLCDOM4	19" 1U sliding TC optical drawer with duplex LC adapters and 24 OM4 pigtails
TC1U24PLCDOS2	19u sliding tc optical drawer with duplex lc adapters and 24 OS2 pigtails
TC1U6PSCDOM3	19" 1U sliding TC optical drawer with 3 SCDs and 6 OM3 pigtails
TC1U6PSCDOM4	19" 1U sliding TC optical drawer with 3 SCDs and 6 OM4 pigtails
TC1U6PSCDOS2	19" 1U sliding TC optical drawer with 3 adapters and 6 OS2 pigtails
TC1U12PSCDOM3	TC 19" sliding optical drawer equipped with SCD adapters and 12 OM3 pigtails
TC1U12PSCDOM4	19" sliding TC optical drawer with SCD adapters and 12 OM4 pigtails
TC1U12PSCDOS2	TC 19" sliding optical drawer equipped with SCD adapters and 12 OS2 pigtails
TC1U24PSCDOM3	19" 1U sliding TC optical drawer with SC duplex adapters and 24 OM3 pigtails
TC1U24PSCDOM4	19" 1U sliding TC optical drawer with SC duplex adapters and 24 OM4 pigtails
TC1U24PSCDOS2	19" 1U sliding TC optical drawer with duplex SC adapters and 24 OS2 pigtails
TC1U24PSCADOS2	19" 1U sliding TC optical drawer with SCAPC duplex adapters and 24 OS2 pigtails

## BREAKOUT BOX FOR ARMORED CABLES



PART NUMBER	DESCRIPTION
48MKA3U8SB	3U panel for 8 breakout boxes 1 input / 144FO
48MKASB1X144	Breakout box 1 input and up to 144FO output

- 3U panel with automatic earthing for steel armored cables: personal safety
- Lighter load on the rear part of the drawers of drawers: external stowage
- Panel for up to 8 breakout boxes 48MKASB1X144
- Breakout box for steel armored cables - 1 input / 144 outputs
- Can also be mounted directly on 19" frames
- Retubing accessory kit included

# OPTICAL CONNECTIVITY

## PIGTAILS

Pack of 12 pigtails, 1x12 colors, FOTAG code



DESCRIPTION	OM3	OM4	OM5	OS2
	Part number	Part number	Part number	Part number
Pigtails box of 12 LC 2m	PIGLC2OM3B12	PIGLC2OM4B12	PIGLC2OM5B12	PIGLC2OS2B12
Pigtails box of 12 SC 2m	PIGSC2OM3B12	PIGSC2OM4B12	PIGSC2OM5B12	PIGSC2OS2B12
Pigtails box of 12 SCAPC 2m	-	-	-	PIGSCA2OS2B12

## PATCH CORDS & DUST CAPS



TYPE	MULTIMODE			MONOMODE		
	SIMPLEX	DUPLEX	QUAD	SIMPLEX	DUPLEX	QUAD
LC		48MMTLCD**	48MMTLCQ**	-	48SMTLCD	48SMTLCQ**
SC	48MMTSCS*	48MMTSCD	-	48SMTSCS*	48SMTSCD	-
SC without screws	48MMTSCSFL*	48MMTSCDFL	-	-	48SMTSCDFL	-
SCAPC	-	-	-	-	48SMTSCAD	-
ST	48MMTSTSBE	48MMTSTDBE	-	48SMTSTSB	48SMTSTDB	-

\* SC : For laser protection, add "ISSFL" at the end of the part number  
 \*\* LC : For laser protection, add "ISFLLZ" at the end of the part number

PART NUMBER	DESCRIPTION
480BLCD	Dust cap for LC duplex or SC simplex
480BSCD	Dust cap for SC duplex or LC quad



# OPTICAL CONNECTIVITY

## WALL-MOUNTED BOXES



PART NUMBER	DESCRIPTION
48BMOP24IP65PN	IP65 black wall-mounted box 12 SCS/LCD UV treated adapters
48BMOP48IP65PN	IP65 black wall-mounted box 24 SCS/LCD UV treated adapters



PART NUMBER	DESCRIPTION
48BMOM6SCDLCQI	Optical metal wall box for DIN rail 6 SCD /LCQ adapters

## IP67 OPTICAL PATCHCORDS

- IP67 protection rating suitable for harsh environments
- Used for FTTA (Fiber To The Antenna) or waterproof applications
- Waterproof by box

PART NUMBER	DESCRIPTION
JxxxxODVAnyyy	ODVA IP67 waterproof optical patchcord

Patch cords on request

PART NUMBER structure: Replace xxxx with SC, SCA (SCAPC), LC or LCA (APC)  
 zz by length of patch cord  
 n by number of fibers  
 yyy by performance (OM3 / OM4 / OM5 / OS2)



## DC MANAGER 1U CABLE PASS-THROUGH

- 1U pass-through cable guide for optical patchcord
- Removable front door
- 2 side rings for optical cords protection
- Large capacity
- Useful dimensions: W. 415mm x D. 79.6mm x H. 40mm
- Compatible adapters: 216 Ø 2mm optical patchcords or 96 Ø 3mm optical patchcords

PART NUMBER	DESCRIPTION
DCMANAGER1U	1U pass-through cable guide for optical optical patchcords



# OPTICAL CONNECTIVITY

## LC/LC OPTICAL PATCHCORDS



DESCRIPTION	OM3	OM4	OM5	OS2
	Part number	Part number	Part number	Part number
LC/LC optical patchcord 1m	JLCLC1DOM3	JLCLC1DOM4	JLCLC1DOM5	JLCLC1DOS2
LC/LC optical patchcord 2m	JLCLC2DOM3	JLCLC2DOM4	JLCLC2DOM5	JLCLC2DOS2
LC/LC optical patchcord 3m	JLCLC3DOM3	JLCLC3DOM4	JLCLC3DOM5	JLCLC3DOS2
JLC/LC optical patchcord 5m	JLCLC5DOM3	JLCLC5DOM4	JLCLC5DOM5	JLCLC5DOS2
LC/LC optical patchcord 10m	JLCLC10DOM3	JLCLC10DOM4	JLCLC10DOM5	JLCLC10DOS2
LC/LC optical patchcord 15m	JLCLC15DOM3	JLCLC15DOM4		JLCLC15DOS2
LC/LC optical patchcord 20m	JLCLC20DOM3	JLCLC20DOM4		JLCLC20DOS2

## SC/SC OPTICAL PATCHCORDS



DESCRIPTION	OM3	OM4	OS2
	Part number	Part number	Part number
SC/SC optical patchcord 1m	JSCSC1DOM3	JSCSC1DOM4	JSCSC1DOS2
SC/SC optical patchcord 2m	JSCSC2DOM3	JSCSC2DOM4	JSCSC2DOS2
SC/SC optical patchcord 3m	JSCSC3DOM3	JSCSC3DOM4	JSCSC3DOS2
SC/SC optical patchcord 5m	JSCSC5DOM3	JSCSC5DOM4	JSCSC5DOS2
SC/SC optical patchcord 10m	JSCSC10DOM3	JSCSC10DOM4	JSCSC10DOS2
SCAPC/SCAPC optical patchcord 1m			JSCASCA1DOS2
SCAPC/SCAPC optical patchcord 2m			JSCASCA2DOS2
SCAPC/SCAPC optical patchcord 3m			JSCASCA3DOS2
SCAPC/SCAPC optical patchcord 5m			JSCASCA5DOS2
SCAPC/SCAPC optical patchcord 10m			JSCASCA10DOS2

## LC/SC OPTICAL PATCHCORDS

DESCRIPTION	OM3	OM4	OS2
	Part number	Part number	Part number
LC/SC optical patchcord 1m	JLCSC1DOM3	JLCSC1DOM4	JLCSC1DOS2
LC/SC optical patchcord 2m	JLCSC2DOM3	JLCSC2DOM4	JLCSC2DOS2
LC/SC optical patchcord 3m	JLCSC3DOM3	JLCSC3DOM4	JLCSC3DOS2
LC/SC optical patchcord 5m	JLCSC5DOM3	JLCSC5DOM4	JLCSC5DOS2
LC/SC optical patchcord 10m	JLCSC10DOM3	JLCSC10DOM4	JLCSC10DOS2

# 19-INCH RACKS

## TECHNIC RANGE



1250 kg



27U/33U  
42U/47U  
(+12U)



600x600 / 600x800  
800x600 / 800x800

PART NUMBER	Number of U	DESCRIPTION
<b>GLASS FRONT DOOR / FULL METAL REAR DOOR</b>		
TM2766	27 U	Technic 19" rack – 27 U 600x600
TM3366	33 U	Technic 19" rack – 33 U 600x600
TM3388	33 U	Technic 19" rack – 33 U 800x800
TM4266	42 U	Technic 19" rack – 42 U 600x600
TM4268	42 U	Technic 19" rack – 42 U 600x800
TM4286	42 U	Technic 19" rack – 42 U 800x600
TM4288	42 U	Technic 19" rack – 42 U 800x800
TM42810	42 U	Technic 19" rack – 42 U 800x1000
TM4788	47 U	Technic 19" rack – 47 U 800x800
TM47810	47 U	Technic 19" rack – 47 U 800x1000
<b>PERFORATED FRONT / REAR DOORS</b>		
TM4288F2PR2P	42 U	Technic 19" rack – 42 U 800x800 with double perforated front/rear doors
TM4288F2PR2PCT200	42 U	Technic 19" rack – 42 U 800x800 with double perforated front/rear doors - ENEDIS HAWAÏ
TM42810F2PR2P	42 U	Technic 19" rack – 42 U 800x1000 with double perforated front/rear doors



3 vertical U on each frame



Vertical guide for cord management  
Reinforcement crosspieces

## ACCESSORIES FOR RACKS











PART NUMBER	DESCRIPTION
ACCBLTR42200	200mm wide cable tray for Technic 42U rack
BEQUERP6	Pair of brackets 600mm depth for Technic rack
BEQUERP8	Pair of brackets 800mm depth for Technic rack
ACCHAIR162888	Rack chair 800 x 800 adjustable height 158-280
ACCHAIR285266	Rack chair 600 x 600 adjustable height 280-520
ACCHAIR285288	Rack chair 800 x 800 adjustable height 280-520



Special locks: Customizable on request



# 19-INCH ACCESSORIES

PART NUMBER	DESCRIPTION
<b>RACK COUPLING</b>	
ACJUNCTION	Coupler kit for 2 racks: 4 screws + 1 spacer (Technic)
<b>VENTILATION</b>	
ACB2V	Block of 2 cabinet fans + 2m alum zinc cord + thermostat (LK, Technic)
ACB4V	Block of 4 cabinet fans + 2m alum zinc cord + thermostat (LK, Technic)
ACTHERMOST	Thermostat (Classic, Technic)
<b>SECURITY</b>	
BMASSE19	19" grounding kit 
ACCASTOR2	Set of 4 wheels for racks LK, Technic: 2 standard + 2 with brakes
<b>19-INCH PANELS</b>	
MMCPF1U4UG	1U cable management panel with b 
MMCPF1U4CROG	1U cable management panel 4 hooks
MMCPF1U4CROGHD	1U cable management panel 4 high-capacity 90mm hooks
MMCOBxUG	Blanking panel: replace x in the part number with the desired U amount (available in 1, 2, 3 and 5 U)
DCMANAGER1U	1U pass-through cable guide for optical fiber patch cord 
ACBDIN19	19" DIN rail support 
ACBOB3U	19" blanking plate for ACBDIN19 
<b>FIXED PLATES AND RAILS FOR STANDARD, TECHNIC AND SERVER RACKS</b>	
49PM1U250G2	Modem tray 1U depth 250
49PM2U400G2	Modem tray 2U depth 400
BPF1U450AD2	1U fixed adaptable tray depth 450 - for 600 and 800 deep rack 
BPF2U550AD2	2U fixed adaptable tray depth 550 - for 800 deep rack
BPF2U720AD	Fixed tray depth 720 - for 1000 deep rack
BPG1U350AD2	1U sliding adjustable tray depth 350 - for 600 and 800 deep rack
BPG1U550AD2	1U sliding adjustable tray depth 550 - for 1000 deep rack 
BPG1UCLAVER	1U keyboard and mouse drawer
BT2U400AD	19" 2U document protect drawer - for 600 and 800 deep rack
BSERVVF720G2	1U heavy-duty fixed tray - for 1000 deep rack
<b>19-INCH POWER UNITS &amp; ACCESSORIES</b>	
49BM6DDP	Block of 6 PDU alum sockets 19" DIFF circuit breaker
49BM8PM	Block of 8 PDU alum sockets 19" adaptable bracket
49BM8PMDDET	Block of 8 alum sockets with keys 
49BM8IPPM	Block of 8 PDU alum sockets 19" with protected switch
49BP6I	Block of 6 black plastic 19" PDUs + switch
49BP7	Block of 7 black plastic 19" PDU
<b>ACCESSORIES FOR 19" RACKS AND WALL-MOUNTED CABINETS</b>	
49BV10T	Box of 10 screws + rings + nuts
49BV50T	Box of 50 screws + rings + nuts
<b>19-INCH POWER UNITS &amp; ACCESSORIES</b>	
PANISDN50N	50-port ISDN panel, black Cat3 4-5/3-6
PANISDN60N	60-port ISDN panel, black Cat3 4-5/3-6
MMCMAT	Metal insertion tool

# SHEET METAL 19-INCH WALL-MOUNTED CABINETS

Space-saving wall-mounted cabinet, 150mm depth



PART NUMBER	DESCRIPTION
LKOFF8UP150	Wall-mounted space-saving cabinet - 19" 3U adjustable + 5U horizontal

Wall-mounted cabinets, 450mm depth



PART NUMBER	DESCRIPTION
LKOFF6UP450	Assembled 19" 6U wall-mounted cabinet, 450mm depth
LKOFF9UP450	Assembled 19" 9U wall-mounted cabinet, 450mm depth
LKOFF12UP450	Assembled 19" 12U wall-mounted cabinet, 450mm depth
LKOFF15UP450	Assembled 19" 15U wall-mounted cabinet, 450mm depth

Wall-mounted cabinets, 600mm depth

PART NUMBER	DESCRIPTION
LKOFF9UP600	Assembled 19" 9U wall-mounted cabinet, 600mm depth
LKOFF12UP600	Assembled 19" 12U wall-mounted cabinet, 600mm depth
LKOFF15UP600	Assembled 19" 9U wall-mounted cabinet, 600mm depth
LKOFF18UP600	Assembled 19" 15U wall-mounted cabinet, 600mm depth
LKOFF22UP600	Assembled 19" 22U wall-mounted cabinet, 600mm depth

Wall-mounted cabinets, 800mm depth

PART NUMBER	DESCRIPTION
LKOFF20UP800	Assembled 19" 20U wall-mounted cabinet, 800mm deep

Accessories for wall-mounted cabinets



PART NUMBER	DESCRIPTION
LKOFFAN1V	1-fan unit for LKOFF cabinets
LKOFFAN2V	2-fan unit for LKOFF cabinets
LKOFFWHEEL	Set of 4 wheels for LKOFF cabinets

# CAE GROUPE SERVICES: PRE-ASSEMBLED RACKS



A qualified workshop to support your needs

## CUSTOMIZED SERVICES



1. **Creation of synoptical diagrams** with product PART NUMBER to verify rack configuration
2. **Installation of all 19" accessories** in the rack
3. **Customized assembly** to suit your needs:
  - Integration of pass-through panels, patch panels, PDUs, PABX panels
  - Pre-equipping and provision of optical drawers
  - Provision of equipments such as connectors, faceplates and cords in the rack (connectors, faceplates, cords)
4. **Labelling realization and application** according to your requests
5. **Pre-delivery at CAE GROUPE logistics site in Villabé**
6. **Lead-time based on customer request**

# CAE GROUPE SERVICES: PRE-ASSEMBLED RACKS

## SEVERAL TYPES OF RACKS



**LK**

### Low density cabling

Cost-effective rack for your standard cabling infrastructure needs



**TECHNIC  
1000**

### Cabling of equipment rooms

Rack with several options: cable management, double roof, etc



- **Fixed, all-inclusive and non-revisable price.**  
We become your subcontractor. This workforce budget category is secured.
- **Meeting deadlines** is our responsibility
- **The work takes place in a dedicated, protected and adapted workshop**, as opposed to a poorly lit, dusty on-site technical room characterized by various trades.
- **The organization is «industrial»** (no interruptions, no back-and-forth movements on site, no lack of tools)
- **Pre-acceptance of the work with the prime contractor and project owner** is greatly simplified and rarely exceeds 2 hours, unlike acceptance operations on a site with different floors, LTE or buildings
- **Managing packaging waste is at our charge.**  
Your project is more «orderly»

# CAE GROUPE SERVICES: THE 35-YEAR SYSTEM WARRANTY GUARANTEED QUALITY!

Multimedia Connect's 35-year warranty system reflects the importance we attach to quality, by committing ourselves directly to all the end-user of our products. The MMC 35-year warranty system is provided by MMC certified installers, selected and trained under our leadership.

From design to manufacture, all Multimedia Connect cabling system components follow a quality procedure that guarantees their performance for years to come.

CAE GROUPE accordingly offers a 35-year warranty on its optical, 6A and 8 copper systems, based on the following conditions:

- The installation was carried out by a Multimedia Connect-certified installer
- The system is exclusively composed of Multimedia Connect components designed for the targeted performance levels (Cat6A – Cat8 – Fiber)
- The installation has been designed, built and installed in accordance with the instructions in the Multimedia Connect installation guide
- The system has undergone no modifications or alterations.



## CERTIFIED BY LEADING INDEPENDENT LABORATORIES

Since its creation, Multimedia Connect has worked closely with Force Technology, an independent laboratory based in Denmark.

Force Technology is unquestionably an international leader in third-party certification. Our products, systems and manufacturing processes have been tested and certified by Force Technology since 1999.

We are also currently working with Intertek.

All in all, MMC holds one of the widest ranges of certifications, whether for components, permanent links or channels.





# CAE GROUPE SERVICES: SPECIFIC CABLES

## CABLES MANUFACTURED ACCORDING TO YOUR PROJECT SPECIFICATIONS



### INNOVATION FOR IMPROVED CUSTOMER SUPPORT

Innovation is based on research and development. CAE GROUPE combines its experience and expertise to design unique, technically advanced solutions dedicated to the development of its worldwide customers. Each facility has its own specialized design office, enabling us to provide the best possible response to any request. Our design engineers conceive, examine and test the most suitable technical solutions.



### ENGINEERING AND DESIGN

#### QUALITY IN DEVELOPMENT

Our design and development teams combine all the expertise needed to define optimized cabling solutions.

#### A TRULY UNIQUE SOLUTION

To ensure the customization and protection of your expertise.



### MANUFACTURING

#### ADAPTED PRODUCTION TOOLS...

As a subsidiary of the TKH Group, CAE GROUPE benefits from a «Manufacturing Division» composed of 12 cable production units. This division offers all the flexibility needed to manufacture specific solutions, whether for small, medium or large production series.

#### ... ALSO CERTIFIED

Our products also meet UL, CSA and European standards. Production is carried out in compliance with ISO 9001 standards. All our facilities are equipped with a test laboratory for pre-production verification.



### SPECIFICITIES UNDER STUDY

- Optimization of the bending radius and outer diameter, outside diameter
- Tensile and torsional force
- Thermal stress
- Development of specific markings
- Precision work on AWG40 micro wires
- Development of industrial connectors
- Chemical stress
- Protection against electromagnetic interferences



### WHAT ARE THE BENEFITS?

- A network of specialized factory subsidiaries allowing us to meet all needs
- High-tech solutions
- Quality service
- Customized response to all CSI requests, according mechanical, chemical, electrical, financial constraints, etc.
- Development based on project specifications
- Technical solutions for specific needs
- Conforming certifications

# INDEX

1020075SHB2	9	1KV1270100SVJSHB2	11	2030075SHB2	10	5254PEAM	21
1020100SHB2	9	1KV1270150SVJSHB2	11	2030100SHB2	10	5254SH1	21
1020150SHB2	9	1KV2020075SHB2	12	2030150SHB2	10	5254SH5	21
1030075SHB2	9	1KV2020100SHB2	12	2030250SHB2	10	5254SHB	21
1030100SHB2	9	1KV2020150SHB2	12	2040075SHB2	10	5254SHC5	21
1030150SHB2	9	1KV2030075SVJSHB2	12	2040100SHB2	10	5254SHINOUT	21
1030250SHB2	9	1KV2030100SVJSHB2	12	2040150SHB2	10	5258SH5	21
1040075SHB2	9	1KV2030150SVJSHB2	12	2040250SHB2	10	5258SHC5	21
1040100SHB2	9	1KV2030250SVJSHB2	12	2050075SHB2	10	555P4SH	21
1040150SHB2	9	1KV2040075SVJSHB2	12	2050100SHB2	10	5X6AFS48	24
1040250SHB2	9	1KV2040100SVJSHB2	12	2050150SHB2	10	5X6AFS8	24
1050075SHB2	9	1KV2040150SVJSHB2	12	2050250SHB2	10	5X8FS8	24
1050100SHB2	9	1KV2040250SVJSHB2	12	2070075SHB2	10	5XPAN1U	24
1050150SHB2	9	1KV2040400SVJSHB2	12	2070100SHB2	10	60045SHEV	22
1050250SHB2	9	1KV2040600SVJSHB2	12	2070150SHB2	10	6004SHB25	22
1070075SHB2	9	1KV2050075SVJSHB2	12	2070250SHB2	10	6004SHC5	22
1070100SHB2	9	1KV2050100SVJSHB2	12	2120075SHB2	10	60085SHEV	22
1070150SHB2	9	1KV2050150SVJSHB2	12	2120100SHB2	10	90210025SHB2	13
1070250SHB2	9	1KV2050250SVJSHB2	12	2120150SHB2	10	90210034SHB2	13
1120075SHB2	9	1KV2070075SVJSHB2	12	2120250SHB2	10	90210050SHB2	13
1120100SHB2	9	1KV2070100SVJSHB2	12	2190075SHB2	10	90210075SHB2	13
1120150SHB2	9	1KV2070150SVJSHB2	12	2190100SHB2	10	90210100SHB2	13
1120250SHB2	9	1KV2070250SVJSHB2	12	2190150SHB2	10	90210150SHB2	13
1190075SHB2	9	1KV2120075SVJSHB2	12	2190250SHB2	10	90310025SHB2	13
1190100SHB2	9	1KV2120100SVJSHB2	12	2270100SHB2	10	90310034SHB2	13
1190150SHB2	9	1KV2120150SVJSHB2	12	2270150SHB2	10	90310050SHB2	13
1190250SHB2	9	1KV2120250SVJSHB2	12	48BMOM6SCDLCQI	33	90310075SHB2	13
1270075SHB2	9	1KV2190075SVJSHB2	12	48BMOP24IP65PN	33	90310100SHB2	13
1270100SHB2	9	1KV2190100SVJSHB2	12	48BMOP48IP65PN	33	90310150SHB2	13
1270150SHB2	9	1KV2190150SVJSHB2	12	48MKA3U8SB	31	90410025SHB2	13
1KV1020075SHB2	11	1KV2190250SVJSHB2	12	48MKASB1X144	31	90410034SHB2	13
1KV1020100SHB2	11	1KV2270100SVJSHB2	12	48MMTLCD	32	90410050SHB2	13
1KV1020150SHB2	11	1KV2270150SVJSHB2	12	48MMTLCQ	32	90410075SHB2	13
1KV1030075SVJSVJSHB2	11	1KV901112000SHB2	8	48MMTSCD	32	90410100SHB2	13
1KV1030100SVJSHB2	11	1KV901115000SHB2	8	48MMTSCDFL	32	90410150SHB2	13
1KV1030150SVJSHB2	11	1KV901118500SHB2	8	48MMTSCS	32	90510025SHB2	13
1KV1030250SVJSHB2	11	1KV901124000SHB2	8	48MMTSCSFL	32	90510034SHB2	13
1KV1040075SVJSHB2	11	1KV90115000SHB2	8	48MMTSTDBE	32	90510050SHB2	13
1KV1040100SVJSHB2	11	1KV90117000SHB2	8	48MMTSTSB	32	90510075SHB2	13
1KV1040150SVJSHB2	11	1KV90119500SHB2	8	48OBLCD	32	90510100SHB2	13
1KV1040250SVJSHB2	11	1KV90310150SHB2	7	48OBSCD	32	90510150SHB2	13
1KV1040400SVJSHB2	11	1KV90310250SHB2	7	48SMTLCD	32	90610025SHB2	13
1KV1040600SVJSHB2	11	1KV90310400SHB2	7	48SMTLCQ	32	90710025SHB2	13
1KV1050075SVJSHB2	11	1KV90310600SHB2	7	48SMTSCAD	32	90710034SHB2	13
1KV1050100SVJSHB2	11	1KV90311000SHB2	7	48SMTSCD	32	90710050SHB2	13
1KV1050150SVJSHB2	11	1KV90410150SHB2	7	48SMTSCDFL	32	90710075SHB2	13
1KV1050250SVJSHB2	11	1KV90410250SHB2	7	48SMTSCS	32	90710100SHB2	13
1KV1070075SVJSHB2	11	1KV90410400SHB2	7	48SMTSTDB	32	90710150SHB2	13
1KV1070100SVJSHB2	11	1KV90410600SHB2	7	48SMTSTSB	32	90810025SHB2	13
1KV1070150SVJSHB2	11	1KV90411000SHB2	7	49BM6DDP	36	90810034SHB2	13
1KV1070250SVJSHB2	11	1KV90411600SHB2	7	49BM8IPPM	36	90810050SHB2	13
1KV1120075SVJSHB2	11	1KV90510150SHB2	7	49BM8PM	36	90810075SHB2	13
1KV1120100SVJSHB2	11	1KV90510250SHB2	7	49BM8PMD	36	90810100SHB2	13
1KV1120150SVJSHB2	11	1KV90510400SHB2	7	49BP6I	36	91010025SHB2	13
1KV1120250SVJSHB2	11	1KV90510600SHB2	7	49BP7	36	91010034SHB2	13
1KV1190075SVJSHB2	11	1KV90511000SHB2	7	49BV10T	36	91210025SHB2	13
1KV1190100SVJSHB2	11	1KV90511600SHB2	7	49BV50T	36	91210034SHB2	13
1KV1190150SVJSHB2	11	2020075SHB2	10	49PM1U250G2	36	91210050SHB2	13
1KV1190250SVJSHB2	11	2020100SHB2	10	49PM2U400G2	36	91210075SHB2	13
1KV1270075SVJSHB2	11	2020150SHB2	10	5254ARPE	21	91210100SHB2	13

# INDEX

91210150SHB2	13	CX64SH5	20	FU5108SH5	21	JLCSC1DOM4	34
91610034SHB2	13	CX64SHB	20	I46AFSIP68	26	JLCSC1DOS2	34
91610050SHB2	13	CX68SH5	20	I4BOXKIT1C	26	JLCSC2DOM3	34
91910025SHB2	13	DCMANAGER1U	33	I4BOXKIT2C	26	JLCSC2DOM4	34
91910034SHB2	13	DCMANAGER1U	36	I4CAPPLUG	27	JLCSC2DOS2	34
91910050SHB2	13	EXTALSHXXOS2BP	30	I4CAPRJ	27	JLCSC3DOM3	34
91910075SHB2	13	F5554SH1	21	I4CORD6ASFPUR	27	JLCSC3DOM4	34
91910100SHB2	13	F5554SH5	21	I4COUPL6AIP68	26	JLCSC3DOS2	34
92510025SHB2	13	F5554SHB	21	I4COUPLUSB3IP68	27	JLCSC5DOM3	34
92710034SHB2	13	F5554SHC5	21	I4JONC6AIP68	26	JLCSC5DOM4	34
92710050SHB2	13	F5558SH5	21	I4PLEC4AFS	25	JLCSC5DOS2	34
92710075SHB2	13	F5558SHC5	21	I4PLST6ASIP68	26	JSCASCA10DOS2	34
92710100SHB2	13	FHP215BLARSHC1	17	I4PLUGIP68	26	JSCASCA1DOS2	34
93710025SHB2	13	FHP215BLSHC1	17	I4USB3IP68	27	JSCASCA2DOS2	34
93710034SHB2	13	FHP415BLARSHC1	17	INTEXXXYYC	30	JSCASCA3DOS2	34
93710050SHB2	13	FHP415BLSHC1	17	JLCLC10DOM3	34	JSCASCA5DOS2	34
93710075SHB2	13	FHP715BLARSHC1	17	JLCLC10DOM3	34	JXXXZZODVANYYY	33
93710100SHB2	13	FOFIREXXYYY	30	JLCLC10DOM4	34	LKOFF12UP450	37
94010025SHB2	13	FRN12G15	6	JLCLC10DOM4	34	LKOFF12UP600	37
94010034SHB2	13	FRN19G15	6	JLCLC10DOM5	34	LKOFF15UP450	37
ACB2V	36	FRN19G25	6	JLCLC10DOS2	34	LKOFF15UP600	37
ACB4V	36	FRN1X120	6	JLCLC10DOS2	34	LKOFF18UP600	37
ACBDIN19	36	FRN1X150	6	JLCLC15DOM3	34	LKOFF20UP800	37
ACBOB3U	36	FRN1X185	6	JLCLC15DOM4	34	LKOFF22UP600	37
ACCABLTR42200	35	FRN1X240	6	JLCLC15DOS2	34	LKOFF6UP450	37
ACCASTOR2	36	FRN1X300	6	JLCLC1DOM3	34	LKOFF8UP150	37
ACCHAIR162888	35	FRN1X70	6	JLCLC1DOM3	34	LKOFF9UP450	37
ACCHAIR285266	35	FRN1X95	6	JLCLC1DOM4	34	LKOFF9UP600	37
ACCHAIR285288	35	FRN2X15	6	JLCLC1DOM4	34	LKOFFAN1V	37
ACJUNCTION	36	FRN3G10	6	JLCLC1DOM5	34	LKOFFAN2V	37
ACTHERMOST	36	FRN3G15	6	JLCLC1DOS2	34	LKOFFWHEEL	37
BC6AFSTL8	24	FRN3G16	6	JLCLC1DOS2	34	MCP12100SHB2	14
BCBOXFS12	24	FRN3G25	6	JLCLC20DOM3	34	MCP1225SHB2	14
BCDUSTSHX8	24	FRN3G25MM	6	JLCLC20DOM4	34	MCP1234SHB2	14
BCPAN1U	24	FRN3G35	6	JLCLC20DOS2	34	MCP1250SHB2	14
BEQUERP6	35	FRN3G4	6	JLCLC2DOM3	34	MCP1275SHB2	14
BEQUERP8	35	FRN3G6	6	JLCLC2DOM3	34	MCP2100SHB2	14
BMASSE19	36	FRN4G10	6	JLCLC2DOM4	34	MCP225SHB2	14
BPF1U450AD2	36	FRN4G15	6	JLCLC2DOM4	34	MCP234SHB2	14
BPF2U550AD2	36	FRN4G16	6	JLCLC2DOM5	34	MCP250SHB2	14
BPF2U720AD	36	FRN4G25	6	JLCLC2DOS2	34	MCP275SHB2	14
BPG1U350AD2	36	FRN4G25MM	6	JLCLC2DOS2	34	MCP3100SHB2	14
BPG1U550AD2	36	FRN4G35	6	JLCLC3DOM3	34	MCP325SHB2	14
BPG1UCLAVER	36	FRN4G4	6	JLCLC3DOM3	34	MCP334SHB2	14
BSERVPF720G2	36	FRN4G50	6	JLCLC3DOM4	34	MCP350SHB2	14
BT2U400AD	36	FRN4G6	6	JLCLC3DOM4	34	MCP375SHB2	14
CBUSEIBSHBT500	16	FRN4G70	6	JLCLC3DOM5	34	MCP4100SHB2	14
CBUSPLSZHC1	16	FRN4G95	6	JLCLC3DOS2	34	MCP4150SHB2D0	15
CORD6AS003MSH	28	FRN5G10	6	JLCLC3DOS2	34	MCP4250SHB2D0	15
CORD6AS005MSH	28	FRN5G15	6	JLCLC5DOM3	34	MCP425SHB2	14
CORD6AS01MSH	28	FRN5G16	6	JLCLC5DOM3	34	MCP434SHB2	14
CORD6AS02MSH	28	FRN5G25	6	JLCLC5DOM4	34	MCP450SHB2	14
CORD6AS03MSH	28	FRN5G25MM	6	JLCLC5DOM4	34	MCP475SHB2	14
CORD6AS05MSH	28	FRN5G4	6	JLCLC5DOM5	34	MCP5100SHB2	14
CORD6AS10MSH	28	FRN5G6	6	JLCLC5DOS2	34	MCP525SHB2	14
CORD6ASF01XMSH	28	FRN5G95	6	JLCLC5DOS2	34	MCP534SHB2	14
CORD6ASF02XMSH	28	FRN7G15	6	JLCSC10DOM3	34	MCP550SHB2	14
CORD6ASF03XMSH	28	FRN7G25	6	JLCSC10DOM4	34	MCP575SHB2	14
CORD6ASF05XMSH	28	FU5104SH1	21	JLCSC10DOS2	34	MCP7100SHB2	14
CX64PE5	20	FU5104SH5	21	JLCSC1DOM3	34	MCP725SHB2	14

# INDEX

MCP734SHB2	14	SYT11224SHC1	18	SYT7224SHB2	19
MCP750SHB2	14	SYT120SHC1	18	SYT7224SHC1	18
MCP775SHB2	14	SYT124SHC1	18	SYT724SHC1	18
MMCMTAT	36	SYT1520SHC1	18	TC1U12ALCDOM3	31
MMCOBXUG	36	SYT1524SHC1	18	TC1U12ALCDOS2	31
MMCP86MET	25	SYT21020SHB2	19	TC1U12ASCDOM3	31
MMCP86METBW	25	SYT21020SHC1	18	TC1U12ASCDOS2	31
MMCPF1U4CROG	36	SYT21024SHB2	19	TC1U12PLCDOM3	31
MMCPF1U4CROGHD	36	SYT21024SHC1	18	TC1U12PLCDOM4	31
MMCPFB1UG	36	SYT211220SHB2	19	TC1U12PLCDOS2	31
MMCRJ45SC5UNIV	25	SYT211220SHC1	18	TC1U12PSCDOM3	31
MMCRJ45SC6A	25	SYT211224SHB2	19	TC1U12PSCDOM4	31
MMCRJ45SC6BW1	25	SYT211224SHC1	18	TC1U12PSCDOS2	31
MMCRJ45SC6SI	25	SYT2120SHC1	18	TC1U24PLCDOM3	31
MN2XT075	8	SYT2124SHC1	18	TC1U24PLCDOM4	31
MN2XT1	8	SYT21520SHB2	19	TC1U24PLCDOS2	31
MN2XT10	8	SYT21520SHC1	18	TC1U24PSCADOS2	31
MN2XT15	8	SYT21524SHB2	19	TC1U24PSCDOM3	31
MN2XT16	8	SYT21524SHC1	18	TC1U24PSCDOM4	31
MN2XT25	8	SYT220SHC1	18	TC1U24PSCDOS2	31
MN2XT25MM	8	SYT22120SHB2	19	TC1U48PLCDOS2	31
MN2XT35	8	SYT22120SHC1	18	TC1U6ALCDOM3	31
MN2XT4	8	SYT22124SHB2	19	TC1U6ALCDOS2	31
MN2XT50	8	SYT22124SHC1	18	TC1U6ASCDOM3	31
MN2XT6	8	SYT2220SHB2	19	TC1U6ASCDOS2	31
MN2XT70	8	SYT2224SHB2	19	TC1U6PLCDOM3	31
MRJBWG1	25	SYT224SHC1	18	TC1U6PLCDOM4	31
MRJBWN1	25	SYT23020SHB2	19	TC1U6PLCDOS2	31
MRJSR6X	25	SYT23020SHC1	18	TC1U6PSCDOM3	31
MRJTSX	25	SYT23024SHB2	19	TC1U6PSCDOM4	31
PANISDN50N	36	SYT23024SHC1	18	TC1U6PSCDOS2	31
PANISDN60N	36	SYT2320SHB2	19	TM2766	35
PIGLC20M3B12	32	SYT2320SHC1	18	TM3366	35
PIGLC20M4B12	32	SYT2324SHB2	19	TM3388	35
PIGLC20M5B12	32	SYT2324SHC1	18	TM4266	35
PIGLC20S2B12	32	SYT24220SHB2	19	TM4268	35
PIGSC20M3B12	32	SYT24220SHC1	18	TM42810	35
PIGSC20M4B12	32	SYT24224SHB2	19	TM42810F2PR2P	35
PIGSC20M5B12	32	SYT24224SHC1	18	TM4286	35
PIGSC20S2B12	32	SYT2520SHB2	19	TM4288	35
PIGSCA20S2B12	32	SYT2520SHC1	18	TM4288F2PR2P	35
PLAG6AFS	25	SYT2524SHB2	19	TM4288F2PR2PCT200	35
PLST6AFS	25	SYT2524SHC1	18	TM47810	35
SF10004SH5	23	SYT25620SHB2	19	TM4788	35
SF10004SH5	23	SYT25620SHC1	18	VG64PE5	20
SF10004SHMC5	23	SYT25624SHB2	19	VG64SHB	20
SF12004SH5	23	SYT25624SHC1	18	VG68SH5	20
SF12004SHC5	23	SYT2720SHB2	19	XK100ARLSZHC10	16
SF12008SHC5	23	SYT2720SHC1	18	XK100SGSHC1	16
SF5004SHNB25	21	SYT3020SHC1	18		
SF5004SHWC5	21	SYT3024SHC1	18		
SF6004PUR10	22	SYT320SHC1	18		
SF600P4PUR10	22	SYT324SHC1	18		
SFU1004PUR10	20	SYT4220SHC1	18		
SFU1004SHINOUT	20	SYT4224SHC1	18		
SFU100P4PUR25	20	SYT520SHC1	18		
SFU100XP4PUR10	20	SYT524SHC1	18		
SYT1020SHC1	18	SYT5620SHC1	18		
SYT1024SHC1	18	SYT5624SHC1	18		
SYT11220SHC1	18	SYT720SHC1	18		







## HEAD OFFICE

3 avenue Jeanne Garnerin  
Bâtiment «Le Cormoran»  
91320 Wissous, France  
Tel. +33 (0)1 69 79 14 14  
contact@cae-groupe.fr

## TOULOUSE

3 avenue de l'Industrie  
Adamantis bâtiment B  
31150 Bruguières, France  
Tel. +33 (0)5 34 27 25 25  
toulouse@cae-groupe.fr

## INTERNATIONAL DEPARTMENT

3 avenue Jeanne Garnerin  
Bâtiment «Le Cormoran»  
91320 Wissous, France  
Tel. +33 (0)1 69 79 39 94  
export@cae-groupe.fr

## PARIS

3 avenue Jeanne Garnerin  
Bâtiment «Le Cormoran»  
91320 Wissous, France  
Tel. +33 (0)1 69 79 14 14  
paris@cae-groupe.fr

## LYON

ZAC du Chapotin  
520 Rue Tony Garnier  
69970 Chaponnay, France  
Tel. +33 (0)4 78 05 05 76  
lyon@cae-groupe.fr

## CENTRAL WAREHOUSE LOGISTICS

ZAC des Brateaux bâtiment A  
rue des 44 arpents  
91100 Villabé, France  
Tel. +33 (0)1 69 79 14 14

## NANTES

2 impasses des alizées  
44470 Carquefou, France  
Tel. +33 (0)2 28 01 50 10  
nantes@cae-groupe.fr



@caegroupe



[www.cae-groupe.com](http://www.cae-groupe.com)

