



C O P P E R C A B L E

Summary



BURRIED APPLICATION

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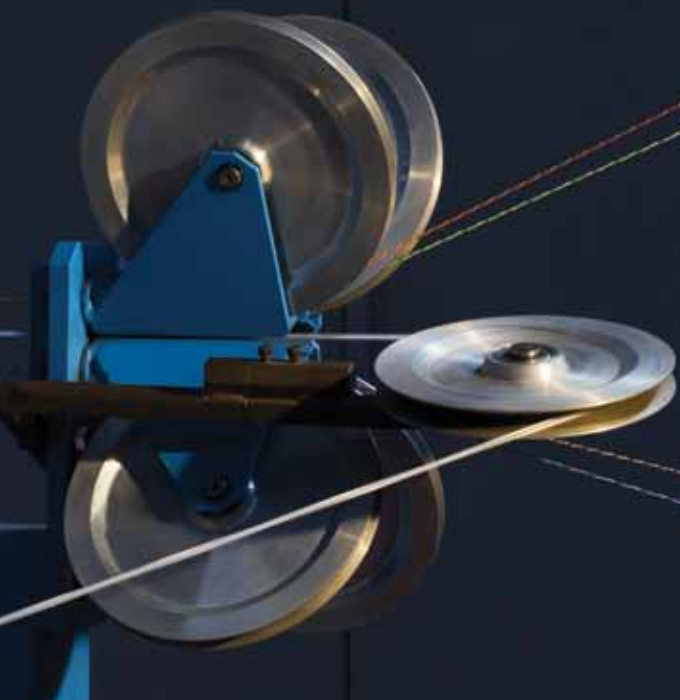
INTELLIGENT BUILDING APPLICATION

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MMC cable production

As a cabling solution manufacturer, Multimedia Connect produces all of its full twisted pair cable range, in TKH GROUP factories, ISO 9001 certified. The production centers are present all over Europe produce around 200 000Kms of twisted pairs cable, from the CAT5e to the CAT8.

To meet the standard specification and the high grade of network requirements, Multimedia Connect focuses production along two axes : quality and performance. For that, Multimedia Connect controls all the production line, from the insulation extrusion to the final quality control.



PAIR ASSEMBLY MACHINE

Our line production has assembly machine for the splitting pair:

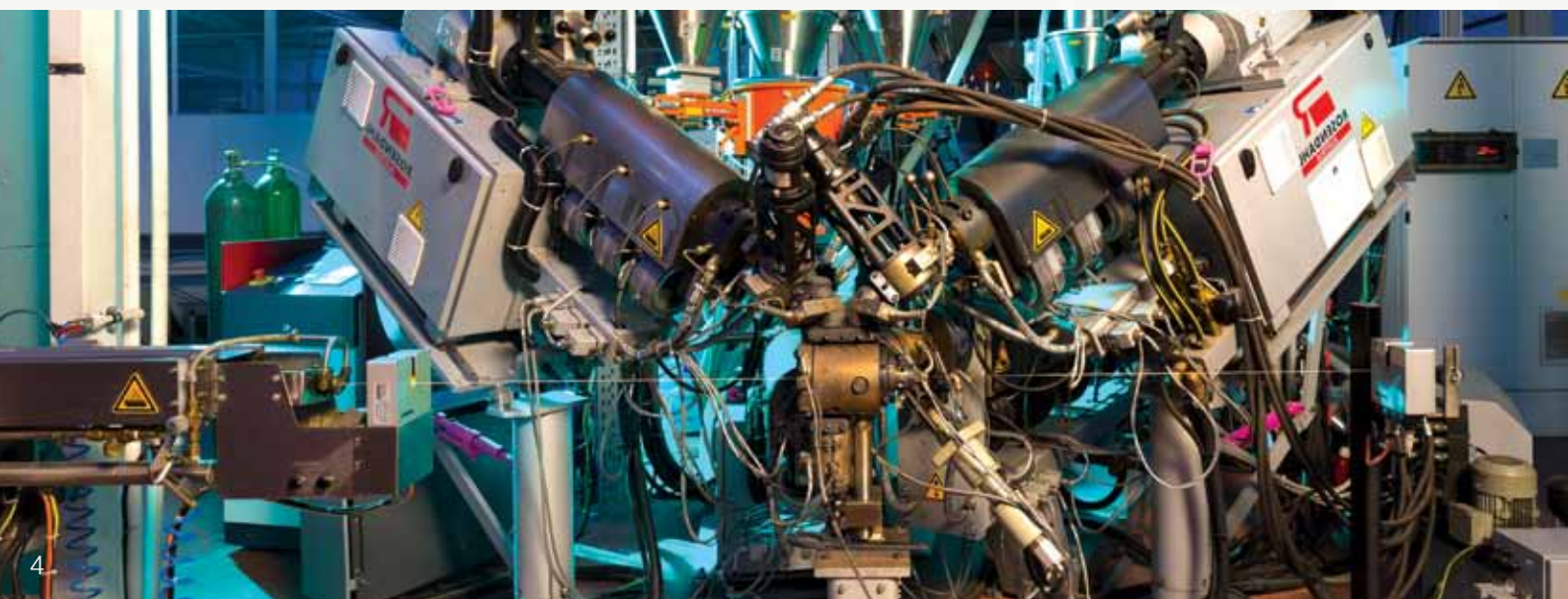
- single twist machine for the unshielded assembly
- group twinner for shielded pair

These machines realize the splitting pair with a different step adjusted with an accuracy of micrometer in order to offer the best NEXT value possible.

EXTRUSION LINE

The extrusion line concerned the insulation of the copper wire and the jacketing. Extrusion is the result of a compound injection through die and tip in order to adjust the exact thickness of the plastic material.

For skin foam skin insulation a physical process will be used to create the foam insulation by pressuring Nitrogene gaz in the material.



SHIELDING

The copper braid is ensured by a machine which will cross the copper wire to make a perfect coverage.

The aluminum foil is putted during the assembly of the four pairs (F/FTP, U/FTP) or during the jacketing (F/UTP).



QUALITY & CONTROL

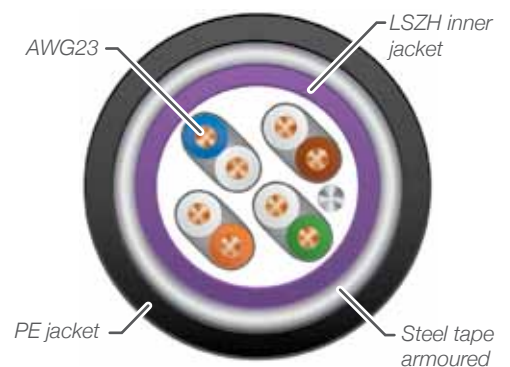
To be sure about the quality of our product, we made a dimensional analyze of our cable and electrical test with a network analyzer to guarantee the best performance. The quality control is made before the shipment and also in our warehouse after the reception.





5254ARPE

U/FTP CAT6A ARMOURED 4 PAIRS CABLE PE JACKET



Benefits[⊕]

Perfect solution for outdoor application:

The PE jacket offer a high protection against water, moisture and UV

Underground application thanks to the armor: high crush resistance and rodent protection

Cable tested up to 525MHz , exceed the CAT6A performance

APPLICATION

- Buried application
- All CAT6A outdoor link
- IP displaying
- IP security application: external IP camera
- Ethernet BaseT up to 10G
- Traffic control



” *PERFECT SOLUTION FOR BURIED APPLICATION* “

This cable permits to extend the network in underground application in case of buried link or rodent environment. Thanks to the corrugated steel tape with a thickness of 0.2mm, this cable will support a crushing strength of 500N.

STANDARD

CABLE : IEC 61156-5 CAT6A

SYSTEM : TIA 568-C.2 CAT6A, ISO 11801 Ed2.2 Class Ea

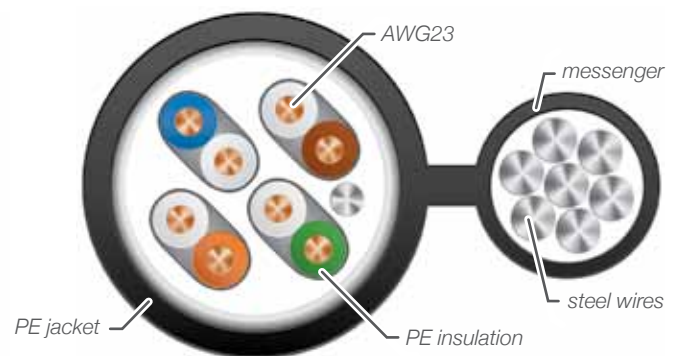
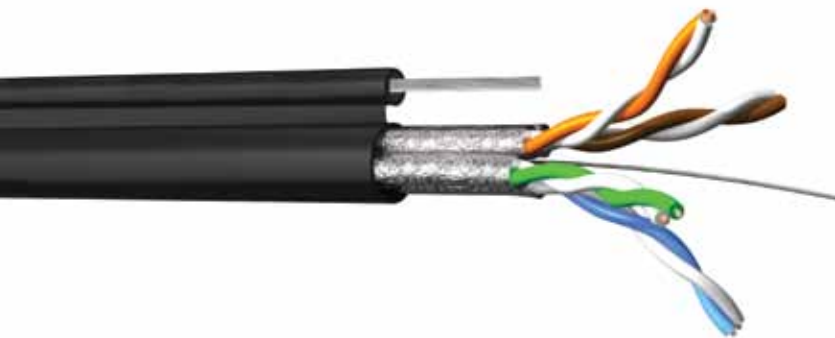
ORDERING INFORMATION

| ITEMS | DESCRIPTION | PACKAGING |
|----------|---|-----------|
| 5254ARPE | CAT6A U/FTP armored cable 100 Ohm 4 pairs PE jacket | 500m drum |



5254PEAM

U/FTP CAT6A AERIAL 4 PAIRS CABLE WITH MESSENGER PE JACKET



Benefits[⊕]

Aerial application thanks to the messenger

Water and UV protection thanks to the PE jacket, cable suitable for outdoor application

Cable tested up to 525MHz, exceed the CAT6A performance

APPLICATION

- Aerial application : antenna
- Aerial CAT6A link
- IP security application: external IP camera
- Ethernet BaseT up to 10G



” THANKS TO THE MESSENGER THIS **CABLE** HAS BEEN THE **AERIAL LINK SOLUTION** FOR OUR ISSUE IN SITE “

This cable ensure the data transmission for aerial application.

Thanks to a messenger composed with 7 steel wires will give to the cable a high rigidity.

STANDARD

CABLE : IEC 61156-5 CAT6A

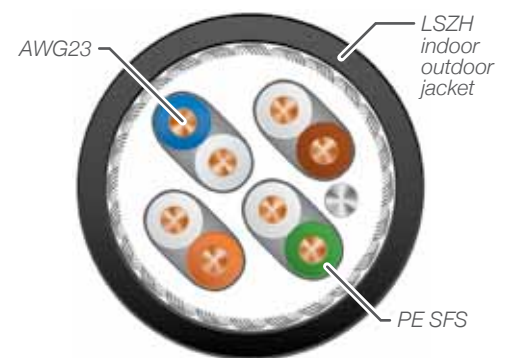
SYSTEM : TIA 568-C.2 CAT6A, ISO 11801 Ed2.2 Class Ea

ORDERING INFORMATION

| ITEMS | DESCRIPTION | PACKAGING |
|----------|--|-----------|
| 5254PEAM | CAT6A U/FTP cable 100 Ohm 4 pairs PE jacket with messenger | 500m drum |

SF1200xSHINOUT

S/FTP CAT7A 4 PAIRS CABLE LSZH JACKET INDOOR/OUTDOOR



Benefits[⊕]

Suitable for outdoor application thanks to a special LSZH water and UV resistant jacket

Suitable for indoor application : Free halogen jacket

High EMC thanks to an excellent double shielding, type S/FTP

Cable tested up to 1.2GHz , exceed the CAT7A performance

APPLICATION

- IP security application : External IP camera Full HD
- Ethernet link requires a big bandwidth
- Signal in UHF with frequency range up to 1.2GHz
- Environment with high interferences, as hospitals
- Smart metering (gaz, electricity...)
- S/FTP CAT6A outdoor application
- Ethernet BaseT up to 10G
- Outdoor IP displaying



” *GOOD **SOLUTION** FOR ENVIRONMENT WITH **HIGH** INTERFERENCES THANKS TO **THE DOUBLE SHIELDING*** “

The SF1200xSHINOUT is a CAT7A cable with a LSZH jacket chemically modified to ensure a protection against water. The copper braid and aluminum foil combined with a AWG22 copper diameter will offer a high electrical performance. This is a perfect solution for signal transmission with frequency up to 1.2GHz.

STANDARD

CABLE : IEC 61156-7 CAT7A

SYSTEM : ISO 11801 Ed2.2 Class Fa

ORDERING INFORMATION

| ITEMS | DESCRIPTION | PACKAGING |
|----------------|---|------------|
| SF12004SHINOUT | S/FTP CAT7A cable 100Ohm 4 pairs LSZH jacket in/out | 1000m drum |
| SF12008SHINOUT | S/FTP CAT7A cable 100Ohm 2x4 pairs LSZH jacket in/out | 1000m drum |

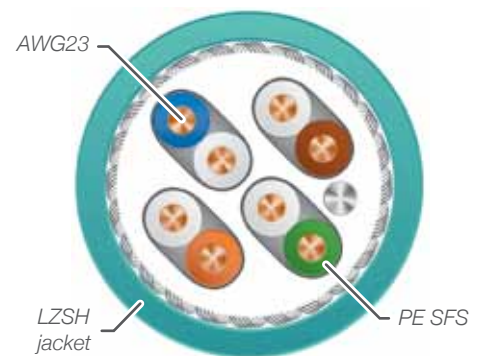
OTHER PRODUCT

| ITEMS | DESCRIPTION | PACKAGING |
|-------------|--|-----------|
| 5254SHINOUT | CAT6A U/FTP cable 100 Ohm 4 pairs LSZH jacket in/out | 500m drum |



SF20004SH

S/FTP CAT8 4 PAIRS CABLE LSZH JACKET



Benefits[⊕]

CAT8.1 cable

Dedicated for data center applications : 40GBaseT on 30m length

High bandwidth of 2GHz

High EMC thanks to a double shielding type S/FTP

APPLICATION

- Data Center application
- Video transmission Ultra HD, frequency up to 2GHz
- Ethernet BaseT up to 40G



The SF20004SH is a new CAT8 cable, which supports the 40GBaseT with a very high bandwidth of 2GHz. The special construction of this cable allows a transmission of very high rate up to 40Gbps, dedicated for the data center application.

Tested with a balun-less brand new technology, it is delivered with an individual test report.

STANDARD

CABLE : IEC61156-9 CAT8.1

SYSTEM : TIA 568-C.2-1 CAT8, ISO 11801 Ed3 Class I

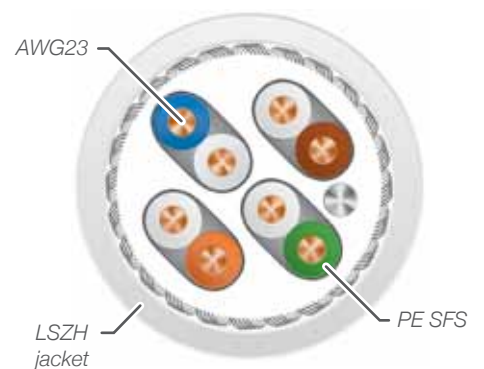
ORDERING INFORMATION

| ITEMS | DESCRIPTION | PACKAGING |
|------------|--|-----------|
| SF20004SH5 | CAT8.1 S/FTP cable 100 Ohm 4 pairs LSZH jacket | 500m drum |



SF500xSHW

S/FTP CAT6A 4 PAIRS CABLE LSZH WHITE JACKET



Benefits[⊕]

CAT6A cable with high EMC thanks to a double shielding, type S/FTP
White color for discrete application such as hospitality

APPLICATION

- CAT6A link with high protection
- Environment where discrete application is required as : hotel, school or residential
- WIFI access point / waps 4G
- Ethernet BaseT up to 10G



” *WHEN **DISCRETION** AND **AESTHETICISM** IS REQUIRED BY THE END USER THE SF500xSHW IS THE BEST **SOLUTION*** “

The double shielding copper braid and individual foil give to the SF500xSHW cable a high EMC. It can be a perfect solution for all the CAT6A links which require a good electromagnetic protection. Added to a white color this cable is adapted to the environment where the discretion is required.

STANDARD

CABLE : IEC61156-5 CAT6A

SYSTEM : TIA 568-C.2 CAT6A, ISO 11801 Ed2.2 Class Ea

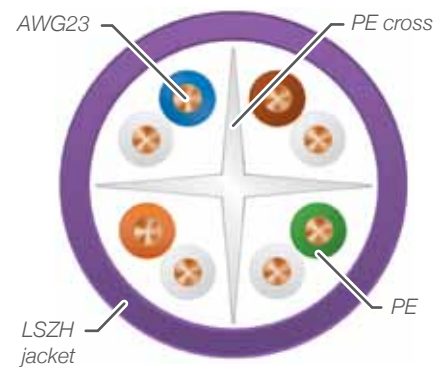
ORDERING INFORMATION

| ITEMS | DESCRIPTION | PACKAGING |
|------------|---|-----------|
| SF5004SHW5 | S/FTP CAT6A cable 100 Ohm 4 pairs LSZH white jacket | 500m drum |



U500L4SH

U/UTP CAT6A 4 PAIRS CABLE LSZH JACKET *Link certified*



Benefits[⊕]

UTP CAT6A cable with small external diameter
Specific internal cross for Xtalk compensation

APPLICATION

- CAT6A UTP link
- Ethernet BaseT up to 10G
- Environment without many interferences (building, offices, ...)



”

*HIGH **PERFORMANCE**, **SMALL DIAMETER**, THIS CAT6A UTP CABLE IS DEDICATED FOR **BUILDING** AND **TRANSPORT** ENVIRONMENT*

“

The U500L4SH is a CAT6A UTP cable with a small external diameter will made the installation easiest and discrete. The internal cross will ensure the Xtalk compensation and offer the CAT6A performance.

STANDARD

CABLE : IEC61156-5 CAT6A

SYSTEM : TIA 568-C.2 CAT6A, ISO 11801 Ed2.2 Class Ea

ORDERING INFORMATION

| ITEMS | DESCRIPTION | PACKAGING |
|----------|--|-----------|
| U500L4SH | UTP CAT6A cable 100Ohm 4 pairs LSZH jacket | 500m drum |

OTHER PRODUCT

| ITEMS | DESCRIPTION | PACKAGING |
|---------|---|-------------------|
| U5104SH | UTP CAT6A cable 100 Ohm 4 pairs LSZH jacket | 1000m & 500m drum |

Notes

A series of horizontal dotted lines for writing notes.



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