



LAN CABLE & COPPER CONNECTIVITY

PRODUCT CATALOGUE 2018/19



MENU NAVIGATION

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Twisted pair is a type of wiring in which two conductors are twisted together for the purposes of canceling out electromagnetic interference. One of the most important production process in order to meet the restricted performance required. Twisted-pair cabling was invented by Alexander Graham Bell in 1881.

ABOUT US

Established in 1998, Afson Cable is a leading manufacturer of LAN cable with full manufacturing facilities in Hangzhou, serving customers in Asia, Europe, USA and Africa.

A full range of products is available including CAT5e, CAT6, CAT6A, CAT7 and CAT7A, Ethernet patching cable and Data Centre special cable ideal for computer networks and Data centres.

Our company also designs, develops, manufactures and sells a full range of Coaxial cable for TV, Satellite, Data application, Broadband Communication Networks and special cable for bespoke applications and requests from the market.

In addition Afson Cable has invested in the last 8 years in research and development of Fibre Optic solutions and this catalogue presents our latest contribution to our range including cabinets and racks.

Our company has both volume and fast response manufacturing capabilities making us able to support our customers globally with specific projects and fast service requests.

Afson Cable is specialised especially in designing and developing branded products for OEM customers.

OUR COMPANY

AFSON CABLE & WIRE IS THE SUBSIDIARY COMPANY OF HANGZHOU AFSON ELECTRONICS CO. LTD. FOUNDED IN 1998, WE ARE NOW LEADERS IN THE FIELD OF COAXIAL AND LAN CABLES.

STRATEGY

We provide a wide variety of specific products for TVs, satellites and broadband communication networks. Since our company started producing high quality cables, it never stopped improving its activity.

Our facilities are in Hangzhou, but our customers are all over the world: Asia, Europe, USA and Africa. In the last 8 years we have also invested in Fibre Optic solutions providing a complete package for a variety of applications.

HIGH TECH CABLES

We specialise in producing high tech cables used in the networking infrastructure. Our daily objective is to provide the best service tailored to the needs of our customers from every corner of the world with fast service response to a variety of requests.

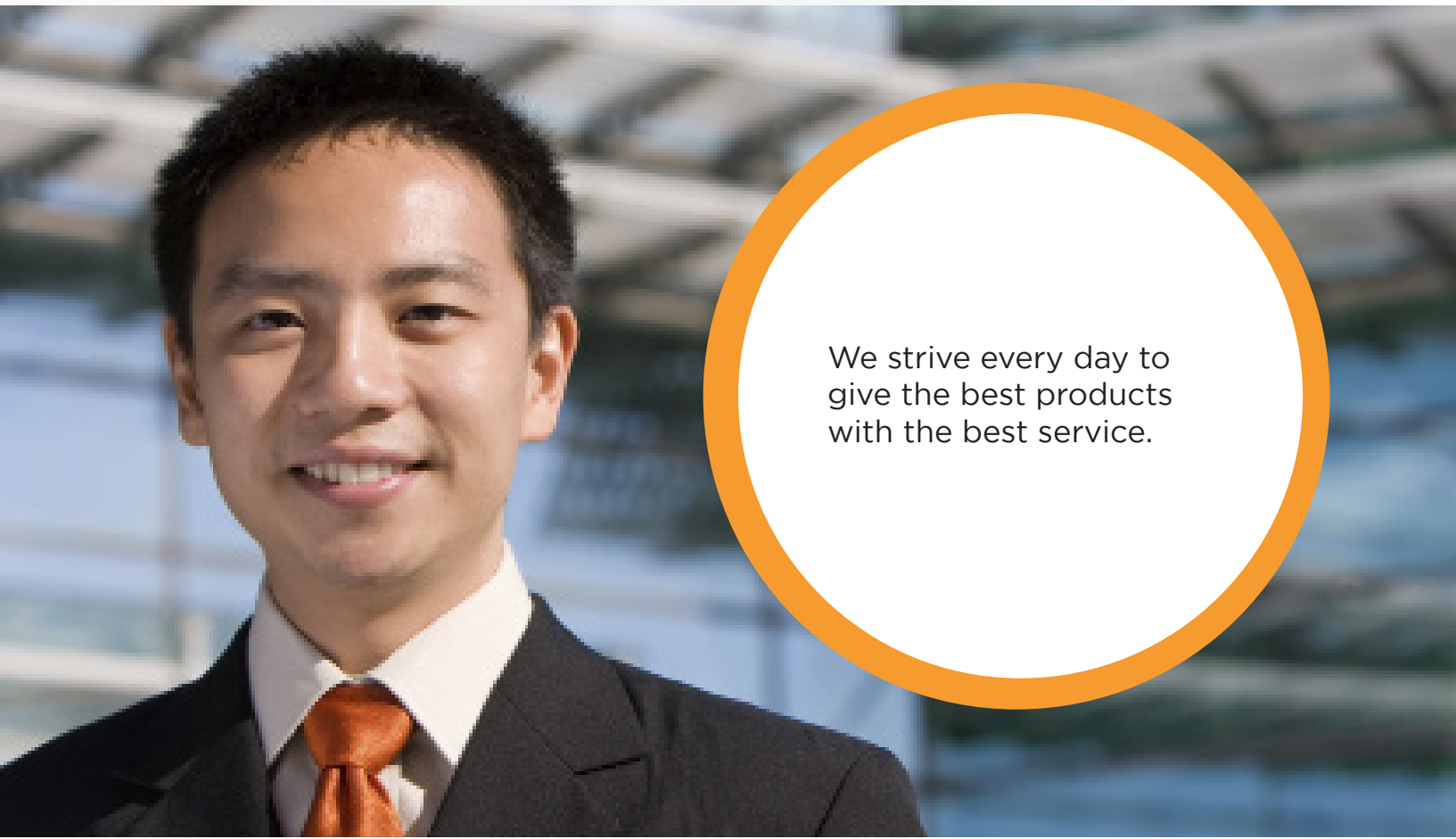
Our main products are LAN cables, patch cords and coaxial cables. We can supply Cat.5e, Cat.6, Cat.6A, Cat.7 and Cat.7A, Ethernet Patching Cables, Data Centre among the products on offer.

SPECIAL CABLE

We are also professional in designing and developing branded products for OEM customers. Our big efforts are rewarded by the satisfaction of our customers, giving us a good reputation. We are known for two main qualities: stable, reliable products and reasonable prices. We take care of all the manufacturing process, from the first steps to the final user. Our aim is to provide excellent customer service.

WE TAKE CARE OF ALL THE MANUFACTURING PROCESS

AFSON has become a high quality company because of its great team of designers, engineers, manufacturers and sellers. Every member of the company has a long time experience in the field of cables for the telecommunications market. We take care of all the manufacturing process, from the first steps to the final user: we pay a lot of attention in customer caring too.



We strive every day to
give the best products
with the best service.

OUR VISION

We strive to develop and improve on current technologies, as we strongly believe that our cables create real connection between people.

We want our cables to be little perfect pieces of a bigger picture, connecting people for a better tomorrow. We believe in design and sustainable technology.

This attitude makes us proud of our company.

Our company can really make the difference: such a small object as a cable plays a key role in the network communication system.

Our objective is to develop and produce each components which together, harmoniously, make up a perfect solution.

We believe in design and technology that enhances human interaction



Several standard types of copper patch cord require several types of special cables and features, in order to meet the application requests, armoured, mini, flexy, among others.

OUR TEST

TESTS MEASUREMENTS AT THE END OF EACH PRODUCTION LINE ARE CRUCIAL IN ORDER TO GUARANTEE THE QUALITY AND THE PERFORMANCE IN ACCORDANCE TO THE NATIONAL AND INTERNATIONAL PARAMETERS.

TYPE TEST:

This type of test is conducted at the beginning of the production with the purpose to check and confirm the design specifications.

All other test such as aging , stress, torsion , crush, water penetration, tensile performance and bending test are performed on each unit after production.

ROUTINE TEST:

This is a test which is conducted after each single production has the purpose to check and confirm the proper manufacturing of each and every unit. This is an essential test to be performed before dispatching the products on to the market.

ELECTRICAL TEST:

This test measures the following: Resistance, impedance, capacitance, attenuation, velocity of propagation, in addition we also perform a transmission test which measures delay skew, return loss, cross talk, ACR (Attenuation to Crosstalk Ratio)



MENU PRODUCTS

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In addition to the production and supply of standard cables from CAT5 to CAT7, Afson Cable and Wire can produce and design cables with special features such as hybrid cables for example coax and LAN or fibre optic and LAN, special type of jackets for critical environment and a full range of multi pairs LAN cable for each categories.

All our products come with a full test certificate and the packaging can be tailored to the customer's requests.

LAN CABLE

THE INDISPUTABLE SOUL OF EACH CABLING STRUCTURED SYSTEM, IS THE CABLE.

Into each regulation scenario (harmonization rules) we can find different types of cable in order to satisfy different types of performances and environment conditions. Afson cable & wire provides a full range of OEM LAN cable from cat5e to cat7.

Available Shielded and Unshielded; for indoor (LSZH, PVC version) and outdoor use (HDPE or PVC version); Standard and Mini outer diameter.

Our cable from cat5e to cat7 are used from residential and commercial building to high performance Data Centre, where is required high density solutions and augmented data range. Our cable can meet UL specifications and the new CPR (construction product rules) specifications

COPPER CONNECTIVITY

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COPPER MENU

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PATCH CORDS CAT 6A *PVC and LSZH standard*



GENERAL

Our range of PVC and LSZH grey CAT6A patchcord are available in standard lengths of 0.5, 1,2, 3, 4 and 5 metres but can be supplied in different lengths and colours upon request. Available in UTP and S/FTP. Shielded AWG26 – Unshielded AWG24.

Each cable is fully tested, manufactured to the highest standards and specification from stranded CAT6A cable and High Quality RJ45 plugs. Tangle Free latch.



FEATURES UTP

- Cable: 24AWG (7/0.195+/- 0.008CU) - *4Pair+Filler+PVC Jacket UL approved stranded cable
- Connectors: RJ45 (8P8C) Male Type with Shield – Insulation: Clear polyester UL – Contact: Brass, Gold Plated G/F – PVC moulding
- PVC and LSZH outer sheath
- High performance, copper pair & overall sheath
- All components are RoSH compliant
- Electrical 100% open and short test



FEATURE F/UTP

- Cable: 26AWG (7/0.16CU+1PR+AM + 0.008CU) - *4Pair+Braid Shield (80/0.12ALM PVC Jacket UL approved stranded cable)
- Connectors: RJ45 (8P8C) Male Type with Shield – Insulation: Clear polyester UL – Contact: Brass, Gold Plated G/F – Shield : Copper, Nickel Plated
- PVC moulding
- PVC and LSZH outer sheath
- High performance, copper pair & overall sheath
- All components are RoSH compliant
- Electrical 100% open and short test



PACKAGING

- Individually packaged in sealed plastic bag.
- Zip lock bag also available.





P/N LSZH	P/N PVC	DESCRIPTION
CAT 6A U/UTP	CAT 6 U/UTP - PVC AWG24 & LSZH	
6A12400.5	6A02400.5	CAT6 A UTP Patchcord Grey mt. 0.5 PVC
6A12401	6A02401	CAT6 A UTP Patchcord Grey mt. 1 PVC
6A12402	6A02402	CAT6 A UTP Patchcord Grey mt. 2 PVC
6A12403	6A02403	CAT6 A UTP Patchcord Grey mt. 3 PVC
6A12404	6A02404	CAT6 A UTP Patchcord Grey mt. 4 PVC
6A12405	6A02405	CAT6 A UTP Patchcord Grey mt. 5 PVC
CAT 6A F/UTP	CAT 6 F/UTP - PVC AWG26	
6A62400.5	6A52600.5	CAT6 A F/UTP Patchcord Grey mt. 0.5 PVC
6A62401	6A52601	CAT6 A F/UTP Patchcord Grey mt. 1 PVC
6A62402	6A52602	CAT6 A F/UTP Patchcord Grey mt. 2 PVC
6A62403	6A52603	CAT6 A F/UTP Patchcord Grey mt. 3 PVC
6A62404	6A52604	CAT6 A F/UTP Patchcord Grey mt. 4 PVC
6A62405	6A52605	CAT6 A F/UTP Patchcord Grey mt. 5 PVC
CAT 6A S/FTP	CAT 6 S/FTP - PVC AWG26	
6A92400.5	6A82600.5	CAT6 A S/FTP Patchcord Grey mt. 0.5 PVC
6A92401	6A82601	CAT6 A S/FTP Patchcord Grey mt. 1 PVC
6A92402	6A82602	CAT6 A S/FTP Patchcord Grey mt. 2 PVC
6A92403	6A82603	CAT6 A S/FTP Patchcord Grey mt. 3 PVC
6A92404	6A82604	CAT6 A S/FTP Patchcord Grey mt. 4 PVC
6A92404	6A82605	CAT6 A S/FTP Patchcord Grey mt. 5 PVC



ORDER INFORMATION

- Standard Colour Grey RAL 7035
- Different Colours and Packaging available
- Different boot and Plug Cover available

PATCH CORDS CAT 6A *PVC and LSZH mini*



GENERAL

Our mini standard PVC and LSZH CAT6A patchcords are ideal for data centres and high density environments where valuable rack space is essential. Standard lengths of 1,2, 3, 4 and 5 metres but can be supplied in different lengths and colours upon request. Available in U/UTP, they are manufactured and tested to ISO 11801, EN 50173 & TIA/EIA 568-C-2 providing optimum and reliable performance.

- Suitable for High Density Switches and Panels
- Reduced Outside Diameter - 3.8mm OD
- Category 6A Compliant
- Independently verified
- Choice of Colours
- T568B wiring
- Blade style 'slimline' moulded strain relief boot with clip protector
- LSZH Outer Sheath as standard PVC available



FEATURES

- Category: 6A
- Cable type: U/UTP
- Strain relief boot: Moulded-on
- Strain relief boot colour: Grey
- Outer sheath colour: Grey
- Length: from 0.5 m
- Flame retardant version: yes
- Halogen free: yes
- Type of connector connection 1: RJ45 8(8) Tangle Free latch
- Type of connector connection 2: RJ45 8(8) Tangle Free latch
- AWG-size: 32
- Pin assignment: 1:1
- Lockable: no
- Cable construction: 1x4





P/N LSZH	P/N PVC	DESCRIPTION
CAT 6A U/UTP	CAT 6A U/UTP - PVC AWG32 & LSZH	
6A12800.5	602800.5	CAT6A UTP Patchcord Grey mt. 0.5 PVC & LSZH
6A12801	602801	CAT6A UTP Patchcord Grey mt. 1 PVC & LSZH
6A12802	602802	CAT6A UTP Patchcord Grey mt. 2 PVC & LSZH
6A12803	602803	CAT6A UTP Patchcord Grey mt. 3 PVC & LSZH
6A12804	602804	CAT6A UTP Patchcord Grey mt. 4 PVC & LSZH
6A12805	602805	CAT6A UTP Patchcord Grey mt. 5 PVC & LSZH

P/N LSZH	P/N PVC	DESCRIPTION
CAT 6A S/FTP	CAT 6A S/FTP - PVC AWG32 & LSZH	
6A93200.5	6A83200.5	CAT6A S/FTP Patchcord Grey mt. 0.5 PVC
6A93201	6A83201	CAT6A S/FTP Patchcord Grey mt. 1 PVC
6A93202	6A83202	CAT6A S/FTP Patchcord Grey mt. 2 PVC
6A93203	6A83203	CAT6A S/FTP Patchcord Grey mt. 3 PVC
6A93204	6A83204	CAT6A S/FTP Patchcord Grey mt. 4 PVC
6A93205	6A83205	CAT6A S/FTP Patchcord Grey mt. 5 PVC



ORDER INFORMATION

- Standard Colour Grey RAL 7035
- Different Colours and Packaging available
- Different boot and Plug Cover available
- Different lengths available on request

PATCH CORDS CAT 6 *PVC and LSZH Grey colour standard*



GENERAL

Our range of PVC and LSZH grey CAT6 patchcord are available in standard lengths of 0.5, 1,2, 3, 4 and 5 metres but can be supplied in different lengths and colours upon request. Available in UTP, F/UTP and S/FTP. Shielded AWG24 – Unshielded AWG26

Each cable is fully tested, manufactured to the highest standards and specification from stranded CAT6 cable and High Quality RJ45 plugs.



FEATURES UTP

- Cable: 26AWG (7/0.19CU+/- 0.008) - *4Pair PVC Jacket UL approved stranded cable
- Connectors: RJ45 (8P8C) Male Type with Shield – Insulation: Clear polyester UL – Contact: Brass, Gold Plated G/F – PVC moulding
- PVC outer sheath
- High performance, copper pair & overall sheath
- All components are RoSH compliant
- Electrical 100% open and short test



FEATURE F/UTP

- Cable: 26AWG (7/0.19CU/- 0.008) - *4Pair +Mylar+Drain Wire + AL foil PVC Jacket UL approved stranded cable
- Connectors: RJ45 (8P8C) Male Type with Shield – Insulation: Clear polyester UL – Contact: Brass, Gold Plated G/F – Shield: Copper, Nickel Plated
- PVC moulding
- PVC and LSZH outer sheath
- High performance, copper pair & overall sheath
- All components are RoSH compliant
- Electrical 100% open and short test



PACKAGING

- Individually packaged in sealed plastic bag.
- Zip lock bag also available.





P/N LSZH	P/N PVC	DESCRIPTION
CAT 6 U/UTP		CAT 6 U/UTP - PVC AWG24 & LSZH
612400.5	602400.5	CAT6 UTP Patchcord Grey mt. 0.5 PVC & LSZH
612401	602401	CAT6 UTP Patchcord Grey mt. 1 PVC & LSZH
612402	602402	CAT6 UTP Patchcord Grey mt. 2 PVC & LSZH
612403	602403	CAT6 UTP Patchcord Grey mt. 3 PVC & LSZH
612404	602404	CAT6 UTP Patchcord Grey mt. 4 PVC & LSZH
612405	602405	CAT6 UTP Patchcord Grey mt. 5 PVC & LSZH
CAT 6 F/UTP		CAT 6 F/UTP - PVC AWG26
662600.5	652600.5	CAT6 F/UTP Patchcord Grey mt. 0.5 PVC & LSZH
662601	652601	CAT6 F/UTP Patchcord Grey mt. 1 PVC & LSZH
662602	652602	CAT6 F/UTP Patchcord Grey mt. 2 PVC & LSZH
662603	652603	CAT6 F/UTP Patchcord Grey mt. 3 PVC & LSZH
662604	652604	CAT6 F/UTP Patchcord Grey mt. 4 PVC & LSZH
662605	652605	CAT6 F/UTP Patchcord Grey mt. 5 PVC & LSZH
CAT 6 S/FTP		CAT 6 S/FTP - PVC AWG26
692600.5	682600.5	CAT6 S/FTP Patchcord Grey mt. 0.5 PVC & LSZH
692601	682601	CAT6 S/FTP Patchcord Grey mt. 1 PVC & LSZH
692602	682602	CAT6 S/FTP Patchcord Grey mt. 2 PVC & LSZH
692603	682603	CAT6 S/FTP Patchcord Grey mt. 3 PVC & LSZH
692604	682604	CAT6 S/FTP Patchcord Grey mt. 4 PVC & LSZH
692605	682605	CAT6 S/FTP Patchcord Grey mt. 5 PVC & LSZH

P/N LSZH	P/N PVC	DESCRIPTION
CAT 6 U/UTP		CAT 6 U/UTP - PVC AWG26 & LSZH
612600.5	602600.5	CAT6 UTP Patchcord Grey mt. 0.5 PVC & LSZH
612601	602601	CAT6 UTP Patchcord Grey mt. 1 PVC & LSZH
612602	602602	CAT6 UTP Patchcord Grey mt. 2 PVC & LSZH
612603	602603	CAT6 UTP Patchcord Grey mt. 3 PVC & LSZH
612604	602604	CAT6 UTP Patchcord Grey mt. 4 PVC & LSZH
612605	602605	CAT6 UTP Patchcord Grey mt. 5 PVC & LSZH



ORDER INFORMATION

- Standard Colour Grey RAL 7035
- Different Colours and Packaging available
- Different boot and Plug Cover available
- Different lengths available on request

PATCH CORDS CAT 6 *PVC and LSZH mini*



GENERAL

Our mini standard PVC and LSZH CAT6 patchcords are ideal for data centres and high density environments where valuable rack space is essential. Standard lengths of 1,2, 3, 4 and 5 metres but can be supplied in different lengths and colours upon request. Available in U/UTP, they are manufactured and tested to ISO 11801, EN 50173 & TIA/EIA 568-C-2 providing optimum and reliable performance.

- Suitable for High Density Switches and Panels
- Reduced Outside Diameter - 3.8mm OD
- Category 6A Compliant
- Independently verified
- Choice of Colours
- T568B wiring
- Blade style 'slimline' moulded strain relief boot with clip protector
- LSZH Outer Sheath as standard PVC available



FEATURES

- Category: 6
- Cable type: U/UTP
- Strain relief boot: Moulded-on
- Strain relief boot colour: Grey
- Outer sheath colour: Grey
- Length: from 0.5 m
- Flame retardant version: yes
- Halogen free: yes
- Type of connector connection 1: RJ45 8(8) Tangle Free latch
- Type of connector connection 2: RJ45 8(8) Tangle Free latch
- AWG-size: 32
- Pin assignment: 1:1
- Lockable: no
- Cable construction: 1x4





P/N LSZH	P/N PVC	DESCRIPTION
CAT 6 U/UTP	CAT 6 U/UTP - PVC AWG28 MINI & LSZH	
612800.5	602800.5	CAT6 UTP Patchcord Grey mt. 0.5 PVC MINI & LSZH
612801	602801	CAT6 UTP Patchcord Grey mt. 1 PVC MINI & LSZH
612802	602802	CAT6 UTP Patchcord Grey mt. 2 PVC MINI & LSZH
612803	602803	CAT6 UTP Patchcord Grey mt. 3 PVC MINI & LSZH
612804	602804	CAT6 UTP Patchcord Grey mt. 4 PVC MINI & LSZH
612805	602805	CAT6 UTP Patchcord Grey mt. 5 PVC MINI & LSZH

P/N LSZH	P/N PVC	DESCRIPTION
CAT 6 F/UTP	CAT 6 F/UTP - PVC AWG27 MINI & LSZH	
662700.5	652800.5	CAT6 F/UTP Patchcord Grey mt. 0.5 PVC MINI & LSZH
662701	652801	CAT6 F/UTP Patchcord Grey mt. 1 PVC MINI & LSZH
662702	652802	CAT6 F/UTP Patchcord Grey mt. 2 PVC MINI & LSZH
662703	652803	CAT6 F/UTP Patchcord Grey mt. 3 PVC MINI & LSZH
662704	652804	CAT6 F/UTP Patchcord Grey mt. 4 PVC MINI & LSZH
662705	652805	CAT6 F/UTP Patchcord Grey mt. 5 PVC MINI & LSZH



ORDER INFORMATION

- Standard Colour Grey RAL 7035
- Different Colours and Packaging available
- Different boot and Plug Cover available
- Different lengths available on request

PATCH CORDS CAT 5e *PVC and LSZH Grey colour standard*



GENERAL

Our range of LSZH grey CAT5e patchcord are available in standard lengths of 1, 2, 3, 4 and 5 metres but can be supplied in different lengths and colours upon request. Available in UTP and F/UTP

Each cable is fully tested, manufactured to the highest standards and specification from stranded CAT5e cable and High Quality RJ45 plugs. Design suitable for advanced and new build networks



FEATURES UTP

- Cable: 26AWG (7/0.16+/- 0.008CU) - *4Pair LSZH PVC Jacket UL approved stranded cable
- Connectors: RJ45 (8P8C) Male Type with Shield - Insulation: Clear polyester UL - Contact: Brass, Gold Plated G/F - PVC moulding
- LSZH outer sheath
- High performance, copper pair & overall sheath
- All components are RoSH compliant
- Electrical 100% open and short test



FEATURE F/UTP

- Cable: 26AWG (7/0.16+/- 0.008CU) - *4Pair +Mylar+Drain Wire + AL foil LSZH Jacket UL approved stranded cable
- Connectors: RJ45 (8P8C) Male Type with Shield - Insulation: Clear polyester UL - Contact: Brass, Gold Plated G/F - Shield : Copper, Nickel Plated
- PVC moulding
- LSZH PVC outer sheath
- High performance, copper pair & overall sheath
- All components are RoSH compliant
- Electrical 100% open and short test



PACKAGING

- Individually packaged in sealed plastic bag.
- Zip lock bag also available.





P/N LSZH	P/N PVC	DESCRIPTION
CAT5 e U/UTP	CAT5 e U/UTP - PVC & LSZH	
512600.5	502600.5	CAT5E UTP Patchcord AWG26/7 Grey mt. 0.5 PVC & LSZH
512601	502601	CAT5E UTP Patchcord AWG26/7 Grey mt. 1 PVC & LSZH
512602	502602	CAT5E UTP Patchcord AWG26/7 Grey mt. 2 PVC & LSZH
512603	502603	CAT5E UTP Patchcord AWG26/7 Grey mt. 3 PVC & LSZH
512604	502604	CAT5E UTP Patchcord AWG26/7 Grey mt. 4 PVC & LSZH
512605	502605	CAT5E UTP Patchcord AWG26/7 Grey mt. 5 PVC & LSZH
CAT5 e F/UTP	CAT5 e F/UTP - PVC & LSZH	
562600.5	552600.5	CAT5E F/UTP Patchcord AWG26/7 Grey mt. 0.5 PVC & LSZH
562601	552601	CAT5E F/UTP Patchcord AWG26/7 Grey mt. 1 PVC & LSZH
562602	552602	CAT5E F/UTP Patchcord AWG26/7 Grey mt. 2 PVC & LSZH
562603	552603	CAT5E F/UTP Patchcord AWG26/7 Grey mt. 3 PVC & LSZH
562604	552604	CAT5E F/UTP Patchcord AWG26/7 Grey mt. 4 PVC & LSZH
562605	552605	CAT5E F/UTP Patchcord AWG26/7 Grey mt. 5 PVC & LSZH
CAT5 e S/FTP	CAT5 e S/FTP - PVC & LSZH	
592600.5	582600.5	CAT5E S/FTP Patchcord AWG26/7 Grey mt. 0.5 PVC & LSZH
592601	582601	CAT5E S/FTP Patchcord AWG26/7 Grey mt. 1 PVC & LSZH
592602	582602	CAT5E S/FTP Patchcord AWG26/7 Grey mt. 2 PVC & LSZH
592603	582603	CAT5E S/FTP Patchcord AWG26/7 Grey mt. 3 PVC & LSZH
592604	582604	CAT5E S/FTP Patchcord AWG26/7 Grey mt. 4 PVC & LSZH
592605	582605	CAT5E S/FTP Patchcord AWG26/7 Grey mt. 5 PVC & LSZH



ORDER INFORMATION

- Standard Colour Grey RAL 7035
- Different Colours and Packaging available
- Different boot and Plug Cover available
- Different lengths available on request

CONNECTIVITY CAT 6A *standard* line



GENERAL

Our Cat6A copper connectivity consists of shielded and unshielded 180 degrees punch down or toolless keystone jacks and 24 port patch panels. The UTP unshielded version of keystone jacks are available white or black with a black patch panel which can be supplied empty or loaded, whilst the STP shielded version are silver with a black with silver trim panel making it easier to recognise during installation and reworking. Our keystone CAT6A can be used also with CAT5e and CAT6 installations.



FEATURES

- 24 port patch panels available loaded or unloaded
- Cage nuts and cable ties included
- Integral labelling field for easy identification
- Keystone jacks are toolless and punch down
- RJ45: Gold over nickel plated phosphor bronze
- Key stone jacks Body: ABS plastic in white (RAL 9003) and black (RAL 9004)



STANDARDS

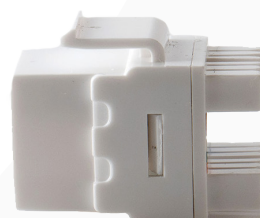
- Compliant with ISO/IEC 11801:2011 (Ed.2.2) EN 50173 1:2011 EN 50173 2:2007 + A1:2010 ANSI/TIA 568 C.2 2009



PACKAGING

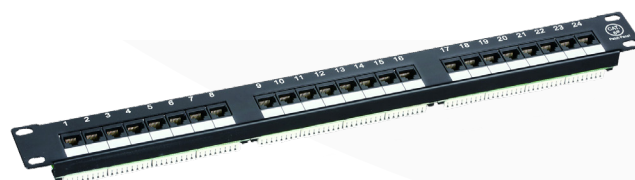
- Keystone jacks are packaged individually in a sealed plastic bag.
- Patch panels are packaged in plain cardboard box.
- Bespoke packaging available on request





UTP 180 degrees Tool less design for Cat5e, Cat6 and Cat6A keystone jacks

P/N	DESCRIPTION
CAT 6A UNSHIELDED CONNECTIVITY	
6A01801	CAT6A UTP 180 ° Toolless White
6A01802	CAT6A UTP 180 ° Toolless Black
6A11801	CAT6A UTP 180 ° (new Tool) White Punch Down
6A11802	CAT6A UTP 180 ° (new Tool) Black Punch Down
102400	UTP Patch Panel empty Black
6A02424	CAT6A UTP Patch Panel Full Black with rear management
CAT 6A SHIELDED CONNECTIVITY	
6A51801	CAT6A STP 180 ° Toolless Silver
6A61801	CAT6A STP 180 ° (new Tool) Silver Punch Down
152400	STP Patch Panel empty Silver Blade + Silver Trim
6A52424	CAT6A STP Patch Panel Full Silver Blade + Silver Trim



CONNECTIVITY CAT 6

Standard



GENERAL

Our Cat6 copper connectivity consists of shielded and unshielded 180 degrees punch down or toolless keystone jacks and 24 port patch panels. The UTP unshielded version of keystone jacks are available white or black with a black patch panel which can be supplied empty or loaded, whilst the STP shielded version are silver with a black with silver trim panel making it easier to recognise during installation and reworking.



FEATURES

- 24 port patch panels available loaded or unloaded
- Cage nuts and cable ties included
- Integral labelling field for easy identification
- Keystone jacks are toolless and tooled
- RJ45: Gold over nickel plated phosphor bronze
- Keystone jacks body: ABS plastic in white (RAL 9003) and Black (RAL 9004)
- Attenuation: >0.1dB @ 100Mhz



STANDARDS

- Compliant with ANSI/TIA/EIA-568-C.2 Category 5e & ISO/IEC-11801 edition 2.2 standards



PACKAGING

- Keystone jacks are packaged individually in a sealed plastic bag.
- Patch panels are packaged in plain cardboard box.
- Bespoke packaging available on request





UTP 180 degrees Tool less design for Cat5e, Cat6 and Cat6A keystone jacks

P/N	DESCRIPTION
CAT 6 UNSHIELDED CONNECTIVITY	
601801	CAT6 UTP 180 ° Toolless White
601802	CAT6 UTP 180 ° Toolless Black
611801	CAT6 UTP 180 ° (new Tool) White Punch Down
611802	CAT6 UTP 180 ° (new Tool) Black Punch Down
102400	UTP Patch Panel empty Black
602424	CAT6 UTP Patch Panel Full Black with rear management
CAT 6 SHIELDED CONNECTIVITY	
651801	CAT6 STP 180 ° Toolless Silver
661801	CAT6 STP 180 ° (new Tool) Silver Punch Down
152400	STP Patch Panel empty Silver Blade + Silver Trim
652424	CAT6 STP Patch Panel Full Silver Blade + Silver Trim



CONNECTIVITY CAT 5e *standard* line



GENERAL

Our Cat5e Standard line copper connectivity consists of shielded and unshielded 180 degrees punch down or toolless keystone jacks and 24 port patch panels. The UTP unshielded version of keystone jacks are available white or black with a black patch panel which can be supplied empty or loaded, whilst the STP shielded version are black with a silver trim making it easier to recognise during installation and reworking.



FEATURES

- 24 port patch panels available loaded or unloaded
- Cage nuts and cable ties included
- Integral labelling field for easy identification
- Keystone jacks are toolless and punch down
- Keystone Body: ABS plastic in white (RAL 9003) and Black (RAL 9004)
- Attenuation: >0.1dB @ 100Mhz



STANDARDS

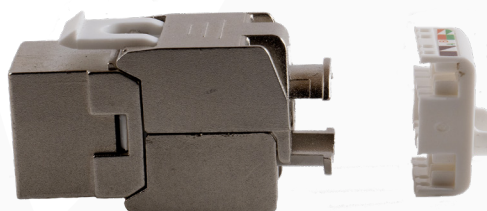
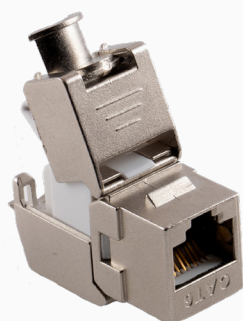
- Compliant with ANSI/TIA/EIA-568-C.2 Category 5e & ISO/IEC-11801 edition 2.2 standards



PACKAGING

- Keystone jacks are packaged individually in a sealed plastic bag.
- Patch panels are packaged in plain cardboard box.
- Bespoke packaging available on request





STP 180 degrees Tool less design for Cat5e, Cat6 and Cat6A keystone jacks

P/N	DESCRIPTION
CAT 5e UNSHIELDED CONNECTIVITY	
501801	Cat5e UTP 180 ° Toolless White
501802	Cat5e UTP 180 ° Toolless Black
511801	Cat5e UTP 180 ° (new Tool) White Punch Down
511802	Cat5e UTP 180 ° (new Tool) Black Punch Down
102400	UTP Patch Panel empty Black
502424	Cat5e UTP Patch Panel Full Black with rear management
CAT 5e SHIELDED CONNECTIVITY	
551801	Cat5e STP 180 ° Toolless Silver
561801	Cat5e STP 180 ° (new Tool) Silver Punch Down
152400	STP Patch Panel empty Silver Blade + Silver Trim
552424	Cat5e STP Patch Panel Full Silver Blade + Silver Trim



LAN CABLE

THE INDISPUTABLE SOUL OF EACH CABLING STRUCTURED SYSTEM, IS THE CABLE

Afson cable & Wire produces standard cables such as Cat5 to Cat7 but we can also design and produce cables with special features such as hybrid cables, including coaxial + Lan or Fibre + Lan. We can also manufacture said cables with different types of jackets suitable for critical environments and a full range of Multi Pairs Lan cable in each category.

All our products come with full test certificate and packaging can be designed to customer's specificat

Into each regulation scenario (harmonization rules) we can find different types of cable in order to satisfy different types of performances and environment conditions. Afson cable & wire provides a full range of OEM LAN cable from cat5e to cat7.

Available Shielded and Unshielded; for indoor (LSZH, PVC version) and outdoor use (HDPE or PVC version); Standard and Mini outer diameter.

Our Cat5e to Cat7 cables are used in residential and commercial building and also in high performance Data Centres, where high density solutions and increased data range is required.

Our cables meet UL specifications and the new CPR (construction product rules) specification.

LAN MENU

U/UTP CAT3 CABLE	32
SF/UTP CAT5E CABLE	34
F/UTP CAT5E CABLE	36
U/UTP CAT5E CABLE	38
U/UTP CAT6 CABLE	40
F/UTP CAT6 CABLE	42
SF/UTP CAT6 CABLE	44
F/FTP CAT6A CABLE	46
U/FTP CAT6A CABLE	48
U/UTP CAT6A CABLE	50
S/FTP CAT7 CABLE	52

U/UTP CAT3 CABLE



ITEM NO.

- 3 U/UTP AWG24/25-50-100cp

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- $0.50 \pm 0.003\text{mm}$

INSULATION

MATERIAL

- HDPE

NOM.O.D.

- $0.87 \pm 0.03\text{mm}$

JACKET

THICKNESS

- $0.85/0.90/1.00 \pm 0.05\text{mm}$

EXTERNAL O.D.

- $11.3/15.0/20.2 \pm 0.8\text{mm}$

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 65%
- Capacitance(nf/100m) ≤ 6.6
- DC Resistance(Ω /100m) ≤ 9.5
- DC Conductor Resistance ≤ 5.0
- Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

- No

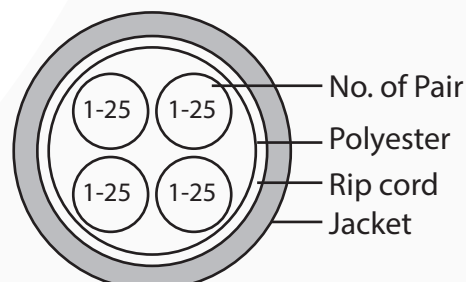
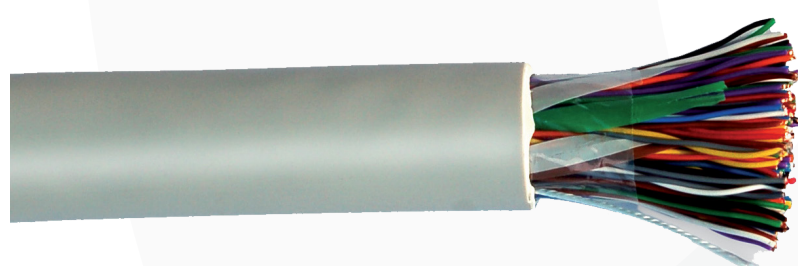


WOODEN REEL & CARTON



LENGTH

$305 \pm 1.5\text{m}$



TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	FREQUENCY (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1.0	12.0	2.6	41.3	1.0	41.3	39.0	39.0
4.0	12.0	5.6	32.3	4.0	32.3	26.9	26.9
8.0	12.0	8.5	27.8	8.0	27.8	20.9	20.9
10.0	12.0	9.7	26.3	10.0	26.3	19.0	19.0
16.0	9.95	13.1	23.3	16.0	23.3	14.9	14.9

JACKET PHYSICAL PROPERTIES

JACKET

AGING				COLD BEND	
ITEM	AGING PERIOD	100°*24H*7D		COLD PERIOD	-20±2°C*4H
		Before Aging	After Aging		
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥350 %	≥350 %		

P/N	DESCRIPTION
UU3.50.PV(25-50-100cp)	Cat3 U/UTP AWG24 PVC Jacket
UU3.50.LS(25-50-100cp)	Cat3 U/UTP AWG24 LSZH Jacket
UU3.50.PE(25-50-100cp)	Cat3 U/UTP AWG24 PE Jacket

SF/UTP CAT5E CABLE



ITEM NO.

- 5 Enhanced SF/UTP AWG24

TEST STANDARD

- ISO/IEC 11801 TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- 0.51 ± 0.003 mm

INSULATION

MATERIAL

- HDPE

NOM.O.D.

- 1.00 ± 0.03 mm

SHIELD

Al Foil

BRAID

TC/Al Wire

JACKET

THICKNESS

- 0.60 ± 0.05 mm

EXTERNAL O.D.

- 6.2 ± 0.3 mm

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 69%
- Capacitance(nf/100m) ≤ 5.6
- Capacitance unbalanced ≤ 330 to-ground(pf/100m)
- DC Resistance(Ω /100m) ≤ 9.5
- DC Conductor Resistance ≤ 5.0 Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

- 0.40TC



PLASTIC REEL & PULL CARTON



DIMENSION

33*26.5*34cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON



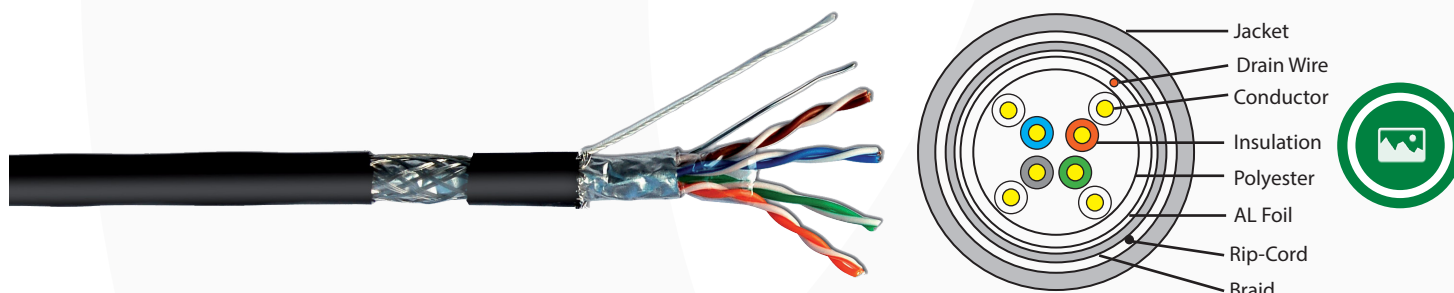
DIMENSION

31*31*29cm

LENGTH

305 $\pm$ 1.5m

www.afsoncable.com



TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	ACR ≥dB	FREQUENCY (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1.0	20.0	2.0	65.3	63.3	1.0	62.3	63.8	60.8
4.0	23.0	4.1	56.3	52.2	4.0	53.3	51.8	48.8
8.0	24.5	5.8	51.8	46.0	8.0	48.8	45.7	42.7
10.0	25.0	6.5	50.3	43.8	10.0	47.3	43.8	40.8
16.0	25.0	8.2	47.2	39.0	16.0	44.4	39.7	36.7
20.0	25.0	9.3	45.8	36.5	20.0	42.8	37.8	34.8
25.0	24.3	10.4	44.3	33.9	25.0	41.3	35.8	32.8
31.25	23.6	11.7	42.9	31.2	31.25	39.9	33.9	30.9
62.5	21.5	17.0	38.4	21.4	62.5	35.4	27.9	24.9
100	20.1	22.0	35.3	13.3	100	32.3	23.8	20.8

JACKET PHYSICAL PROPERTIES

JACKET

AGING				COLD BEND	
ITEM		AGING PERIOD	100°*24H*7D	COLD PERIOD	-20±2°C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	DESCRIPTION
SFU5.51.PV - E	Cat5E SF/UTP AWG24 PVC Jacket CPR class Eca
SFU5.51.LS - E	Cat5E SF/UTP AWG24 LSZH Jacket CPR class Eca
SFU5.51.PE - E	Cat5E SF/UTP AWG24 PE Jacket CPR class Eca
SFU5.51.PVPE - F	Cat5E SF/UTP AWG24 PVC + PE Jacket CPR class Fca

F/UTP CAT5E CABLE



ITEM NO.

- 5 Enhanced F/UTP AWG24

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- 0.51 ± 0.003 mm

INSULATION

MATERIAL

- HDPE

NOM.O.D.

- 1.09 ± 0.03 mm

SHIELD

- Al Foil

JACKET

THICKNESS

- 0.55 ± 0.05 mm

EXTERNAL O.D.

- 6.0 ± 0.3 mm

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 69%
- Capacitance(nf/100m) ≤ 5.6
- Capacitance unbalanced ≤ 330 to-ground(pf/100m)
- DC Resistance(Ω /100m) ≤ 9.5
- DC Conductor Resistance ≤ 5.0 Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

- 0.40TC



PLASTIC REEL & PULL CARTON



DIMENSION

42*42*21cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON



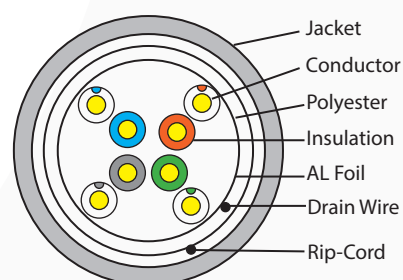
DIMENSION

31*31*29cm

LENGTH

305 $\pm$ 1.5m

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TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	ACR ≥dB	FREQUENCY (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1.0	20.0	2.0	65.3	63.3	1.0	62.3	63.8	60.8
4.0	23.0	4.1	56.3	52.2	4.0	53.3	51.8	48.8
8.0	24.5	5.8	51.8	46.0	8.0	48.8	45.7	42.7
10.0	25.0	6.5	50.3	43.8	10.0	47.3	43.8	40.8
16.0	25.0	8.2	47.2	39.0	16.0	44.4	39.7	36.7
20.0	25.0	9.3	45.8	36.5	20.0	42.8	37.8	34.8
25.0	24.3	10.4	44.3	33.9	25.0	41.3	35.8	32.8
31.25	23.6	11.7	42.9	31.2	31.25	39.9	33.9	30.9
62.5	21.5	17.0	38.4	21.4	62.5	35.4	27.9	24.9
100	20.1	22.0	35.3	13.3	100	32.3	23.8	20.8

JACKET PHYSICAL PROPERTIES

JACKET

AGING				COLD BEND	
ITEM	AGING PERIOD	100°*24H*7D		COLD PERIOD	-20±2°C*4H
	Before Aging	After Aging		Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	DESCRIPTION
FU5.51.PV - E	Cat5E F/UTP AWG24 PVC Jacket CPR class Eca
FU5.51.LS - E	Cat5E F/UTP AWG24 LSZH Jacket CPR class Eca
FU5.51.PE - E	Cat5E F/UTP AWG24 PE Jacket CPR class Eca
FU5.51.PVPE - F	Cat5E F/UTP AWG24 PVC + PE Jacket CPR class Fca

U/UTP CAT5E CABLE



ITEM NO.

- 5 Enhanced U/UTP AWG24

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- 0.50 ± 0.03 mm

INSULATION

MATERIAL

- HDPE

NOM.O.D.

- 0.90 ± 0.003

JACKET

THICKNESS

- 0.55 ± 0.05 mm

EXTERNAL O.D.

- 5.0 ± 0.3

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 69%
- Capacitance(nf/100m) ≤ 5.6
- DC Resistance(Ω /100m) ≤ 9.5
- DC Conductor Resistance ≤ 5.0
- Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

- No



PLASTIC REEL & PULL CARTON



DIMENSION

35*35*21cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON

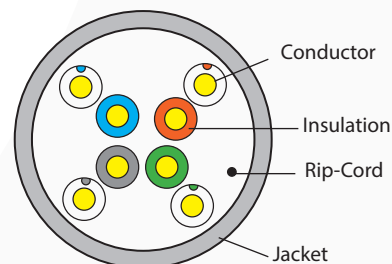


DIMENSION

33*33*30cm

LENGTH

300 $\pm$ 2.5m



TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	ACR ≥dB	FREQUENCY (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1.0	20.0	2.0	65.3	63.3	1.0	62.3	63.8	60.8
4.0	23.0	4.1	56.3	52.2	4.0	53.3	51.8	48.8
8.0	24.5	5.8	51.8	46.0	8.0	48.8	45.7	42.7
10.0	25.0	6.5	50.3	43.8	10.0	47.3	43.8	40.8
16.0	25.0	8.2	47.2	39.0	16.0	44.4	39.7	36.7
20.0	25.0	9.3	45.8	36.5	20.0	42.8	37.8	34.8
25.0	24.3	10.4	44.3	33.9	25.0	41.3	35.8	32.8
31.25	23.6	11.7	42.9	31.2	31.25	39.9	33.9	30.9
62.5	21.5	17.0	38.4	21.4	62.5	35.4	27.9	24.9
100	20.1	22.0	35.3	13.3	100	32.3	23.8	20.8

JACKET PHYSICAL PROPERTIES

JACKET

AGING				COLD BEND	
ITEM	AGING PERIOD	100*24H*7D		COLD PERIOD	-20±2°C*4H
		Before Aging	After Aging		
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥350 %	≥350 %		

P/N	DESCRIPTION
UU5.50.PV - E	Cat5E U/UTP AWG24 PVC Jacket CPR class Eca
UU5.50.LS - E	Cat5E U/UTP AWG24 LSZH Jacket CPR class Eca
UU5.50.PE - E	Cat5E U/UTP AWG24 PE Jacket CPR class Eca
UU5.50.PVPE - F	Cat5E U/UTP AWG24 PVC + PE Jacket CPR class Fca
UU5.50.LS - D	Cat5E U/UTP AWG24 LSZH Jacket CPR class Fca

U/UTP CAT6 CABLE



ITEM NO.

- 6 U/UTP AWG23

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- 0.55 ± 0.003 mm

INSULATION

MATERIAL

- HDPE

NOM.O.D.

- 1.00 ± 0.03 mm

JACKET

THICKNESS

- 0.55 ± 0.05 mm

EXTERNAL O.D.

- 6.0 ± 0.3 mm

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 69%
- Capacitance(nf/100m) ≤ 5.6
- Capacitance unbalanced ≤ 330 to-ground(pf/100m)
- DC Resistance(Ω /100m) ≤ 9.5
- DC Conductor Resistance ≤ 5.0 Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

- No



PULL CARTON



DIMENSION

42*42*21cm

LENGTH

305 $\pm$ 1.5m

PLASTIC REEL & PULL CARTON



DIMENSION

33*26.5*34cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON

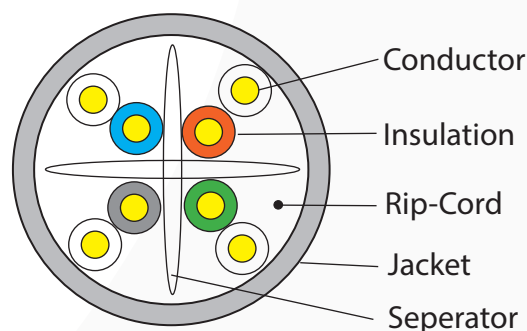


DIMENSION

31*31*27cm

LENGTH

305 $\pm$ 1.5m



TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	ACR ≥dB	FREQUENCY (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1.0	20.0	2.0	74.3	72.3	1.0	72.3	67.8	64.8
4.0	23.0	3.8	65.3	61.5	4.0	63.3	55.8	52.8
8.0	24.5	5.3	60.8	55.5	8.0	58.8	49.7	46.7
10.0	25.0	6.0	59.3	53.3	10.0	57.3	47.8	44.8
16.0	25.0	7.6	56.2	48.6	16.0	54.2	43.7	40.7
20.0	25.0	8.5	54.8	46.3	20.0	52.8	41.8	38.8
25.0	24.3	9.5	53.3	43.8	25.0	41.3	39.8	36.8
31.25	23.6	10.7	51.9	41.2	31.25	49.9	37.9	34.9
62.5	21.5	15.4	47.4	32.0	62.5	45.4	31.9	28.9
100	20.1	19.8	44.3	24.5	100	42.3	27.8	24.8
200	18.0	29.0	39.8	10.8	200	37.8	21.8	18.8
250	17.3	32.8	38.3	5.5	250	36.3	19.8	16.8

JACKET PHYSICAL PROPERTIES

JACKET

AGING				COLD BEND	
ITEM	AGING PERIOD	100°*24H*7D		COLD PERIOD	-20±2°C*4H
		Before Aging	After Aging		
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥350 %	≥350 %		

P/N	DESCRIPTION
UU6.55.PV - E	Cat6 U/UTP AWG23 PVC Jacket CPR class Eca
UU6.55.LS - E	Cat6 U/UTP AWG23 LSZH Jacket CPR class Eca
UU6.55.PE - E	Cat6 U/UTP AWG23 PE Jacket CPR class Eca
UU6.55.PVPE - F	Cat6 U/UTP AWG23 PVC + PE Jacket CPR class Fca
UU6.55.LS - D	Cat6 U/UTP AWG23 PE Jacket CPR class Fca

Special Jackets in accordance with customer's requirements

F/UTP CAT6 CABLE



ITEM NO.

- 6 F/UTP AWG23

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- $0.57 \pm 0.003\text{mm}$

INSULATION

MATERIAL

- HDPE

NOM.O.D.

- $1.09 \pm 0.03\text{mm}$

SHIELD

Al Foil

JACKET

THICKNESS

- $0.60 \pm 0.05\text{mm}$

EXTERNAL O.D.

- $7.3 \pm 0.3\text{mm}$

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 74%
- Capacitance(nf/100m) ≤ 5.6
- Capacitance unbalanced ≤ 330 to-ground(pf/100m)
- DC Resistance(Ω /100m) ≤ 9.38
- DC Conductor Resistance ≤ 5.0 Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

- 0.40TC



PLASTIC REEL & PULL CARTON



DIMENSION

38.5*31*38.5cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON

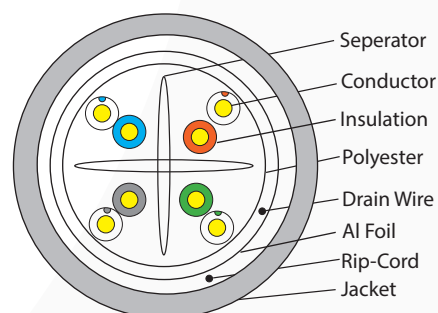
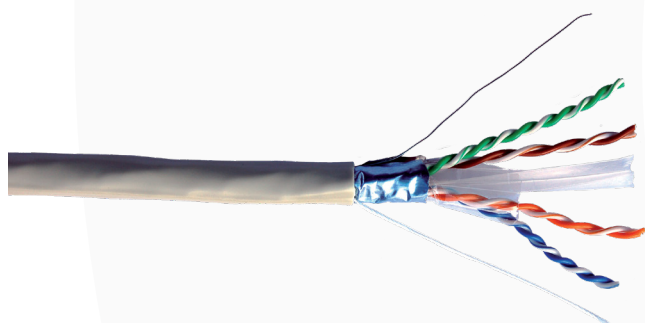


DIMENSION

36*36*33cm

LENGTH

305 $\pm$ 1.5m



TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	ACR ≥dB	FREQUENCY (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1.0	20.0	2.0	74.3	72.3	1.0	72.3	67.8	64.8
4.0	23.0	3.8	65.3	61.5	4.0	63.3	55.8	52.8
8.0	24.5	5.3	60.8	55.5	8.0	58.8	49.7	46.7
10.0	25.0	6.0	59.3	53.3	10.0	57.3	47.8	44.8
16.0	25.0	7.6	56.2	48.6	16.0	54.2	43.7	40.7
20.0	25.0	8.5	54.8	46.3	20.0	52.8	41.8	38.8
25.0	24.3	9.5	53.3	43.8	25.0	41.3	39.8	36.8
31.25	23.6	10.7	51.9	41.2	31.25	49.9	37.9	34.9
62.5	21.5	15.4	47.4	32.0	62.5	45.4	31.9	28.9
100	20.1	19.8	44.3	24.5	100	42.3	27.8	24.8
200	18.0	29.0	39.8	10.8	200	37.8	21.8	18.8
250	17.3	32.8	38.3	5.5	250	36.3	19.8	16.8

JACKET PHYSICAL PROPERTIES

JACKET

AGING				COLD BEND	
ITEM	AGING PERIOD		100°*24H*7D	COLD PERIOD	-20±2°C*4H
	Before Aging	After Aging		Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	DESCRIPTION
FU6.57.PV - E	Cat6 F/UTP AWG23 PVC Jacket CPR class Eca
FU6.57.LS - E	Cat6 F/UTP AWG23 LSZH Jacket CPR class Eca
FU6.57.PE - E	Cat6 F/UTP AWG23 PE Jacket CPR class Eca
FU6.57.PVPE - F	Cat6 F/UTP AWG23 PVC + PE Jacket CPR class Fca
FU6.57.LS - D	Cat6 F/UTP AWG23 LSZH Jacket CPR class Fca

Special Jackets in accordance with customer's requirements
www.afsoncable.com

SF/UTP CAT6 CABLE



ITEM NO.

- 6 SF/UTP AWG23

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- 0.57 ± 0.003 mm

INSULATION

MATERIAL

- HDPE

NOM.O.D.

- 1.09 ± 0.03 mm

SHIELD

- Al Foil

BRAID

- TC/Al Wire

JACKET

THICKNESS

- 0.60 ± 0.05 mm

EXTERNAL O.D.

- 7.5 ± 0.3 mm

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 69%
- Capacitance(nf/100m) ≤ 5.6
- Capacitance unbalanced ≤ 330 to-ground(pf/100m)
- DC Resistance(Ω /100m) ≤ 9.38
- DC Conductor Resistance ≤ 5.0 Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

- No



PLASTIC REEL & PULL CARTON



DIMENSION

38.5*31*38.5cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON

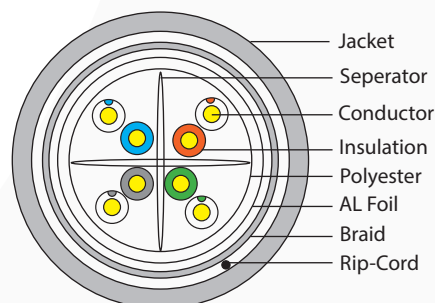


DIMENSION

36*36*33cm

LENGTH

305 $\pm$ 1.5m



TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	ACR ≥dB	FREQUENCY (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1.0	20.0	2.0	74.3	72.3	1.0	72.3	67.8	64.8
4.0	23.0	3.8	65.3	61.5	4.0	63.3	55.8	52.8
8.0	24.5	5.3	60.8	55.5	8.0	58.8	49.7	46.7
10.0	25.0	6.0	59.3	53.3	10.0	57.3	47.8	44.8
16.0	25.0	7.6	56.2	48.6	16.0	54.2	43.7	40.7
20.0	25.0	8.5	54.8	46.3	20.0	52.8	41.8	38.8
25.0	24.3	9.5	53.3	43.8	25.0	41.3	39.8	36.8
31.25	23.6	10.7	51.9	41.2	31.25	49.9	37.9	34.9
62.5	21.5	15.4	47.4	32.0	62.5	45.4	31.9	28.9
100	20.1	19.8	44.3	24.5	100	42.3	27.8	24.8
200	18.0	29.0	39.8	10.8	200	37.8	21.8	18.8
250	17.3	32.8	38.3	5.5	250	36.3	19.8	16.8

JACKET PHYSICAL PROPERTIES

JACKET

AGING			COLD BEND	
ITEM	AGING PERIOD	100°*24H*7D	COLD PERIOD	-20±2°C*4H
	Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	No Visible Cracks	
	Elongation	≥150 %		
LSZH	Tensile Strength	≥10.0 Mpa	No Visible Cracks	
	Elongation	≥125%		
PE	Tensile Strength	≥10.0 Mpa	No Visible Cracks	
	Elongation	≥350 %		

P/N	DESCRIPTION
SFU6.57.PV - E	Cat6 SF/UTP AWG23 PVC Jacket CPR class Eca
SFU6.57.LS - E	Cat6 SF/UTP AWG23 LSZH Jacket CPR class Eca
SFU6.57.PE - E	Cat6 SF/UTP AWG23 PE Jacket CPR class Eca

Special Jackets in accordance with customer's requirements

F/FTP CAT6A CABLE



ITEM NO.

- 6A F/FTP AWG23

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- 0.56 ± 0.003 mm

INSULATION

MATERIAL

- Skin-foam-Skin PE

NOM.O.D.

- 1.35 ± 0.05 mm

SHIELD

- Al Foil

JACKET

THICKNESS

- 0.55 ± 0.05 mm

EXTERNAL O.D.

- 7.5 ± 0.3 mm

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 74%
- Capacitance(nf/100m) ≤ 5.6
- Capacitance unbalanced ≤ 330 to-ground(pf/100m)
- DC Resistance(Ω /100m) ≤ 9.38
- DC Conductor Resistance ≤ 2.0 Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

0.40TC



PLASTIC REEL & PULL CARTON



DIMENSION

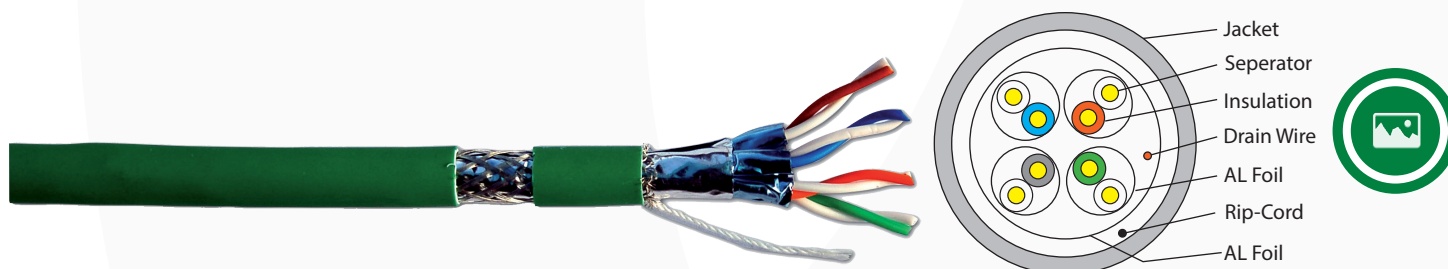
38.5*31*38.5cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON





TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	PSNEXT ≥dB	ACR-F ≥dB	PS ACR-F ≥dB	PS ANEXT ≥dB	PS AACR-F ≥dB
1.0	20.0	2.1	74.3	72.3	67.8	64.8	67.0	67.0
4.0	23.0	3.8	65.3	63.3	55.8	52.8	67.0	66.2
10.0	25.0	5.9	59.3	57.3	47.8	44.8	67.0	58.2
16.0	25.0	7.5	56.2	54.2	43.7	40.7	67.0	54.1
20.0	25.0	8.4	54.8	52.8	41.8	38.8	67.0	52.2
31.25	23.6	10.5	51.9	49.9	37.9	34.9	67.0	48.3
62.5	21.5	15.0	47.7	45.4	31.9	28.9	65.6	42.3
100	20.1	19.1	44.3	42.3	27.7	24.8	62.5	38.2
200	18.0	27.6	39.8	37.8	21.8	18.8	58.0	32.2
250	17.3	31.1	38.3	36.3	19.8	16.8	56.5	30.2
300	16.8	34.3	27.1	35.1	18.3	15.3	55.3	28.7
500	15.2	45.3	33.8	31.8	13.8	10.8	52.0	24.2

JACKET PHYSICAL PROPERTIES

JACKET

AGING				COLD BEND	
ITEM	AGING PERIOD	100°*24H*7D		COLD PERIOD	-20±2°C*4H
		Before Aging	After Aging		
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	Bend Radius	8*Cable O.D.
	Elongation	≥350 %	≥350 %		

P/N	DESCRIPTION
FFU6A.56.PV - E	Cat6A F/FTP AWG23 PVC Jacket
FFU6A.56.LS - E	Cat6A F/FTP AWG23 LSZH Jacket CPR class Eca
FFU6A.56.PE - F	Cat6A F/FTP AWG23 PE Jacket CPR class Fca
FFU6A.56.PVPE - F	Cat6A F/FTP AWG23 PVAC+PE Jacket CPR class Eca

Special Jackets in accordance with customer's requirements

U/FTP CAT6A CABLE



ITEM NO.

- 6A U/FTP AWG23

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- 0.56 ± 0.005 mm

INSULATION

MATERIAL

- Skin-foam-Skin PE

NOM.O.D.

- 1.06 ± 0.05 mm

SHIELD

- Al Foil

JACKET

THICKNESS

- 0.55 ± 0.05 mm

EXTERNAL O.D.

- 7.5 ± 0.3 mm

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 74%
- Capacitance(nf/100m) ≤ 5.6
- Capacitance unbalanced ≤ 330 to-ground(pf/100m)
- DC Resistance(Ω /100m) ≤ 9.38
- DC Conductor Resistance ≤ 2.0 Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

0.40TC



WOODEN REEL & CARTON



DIMENSION

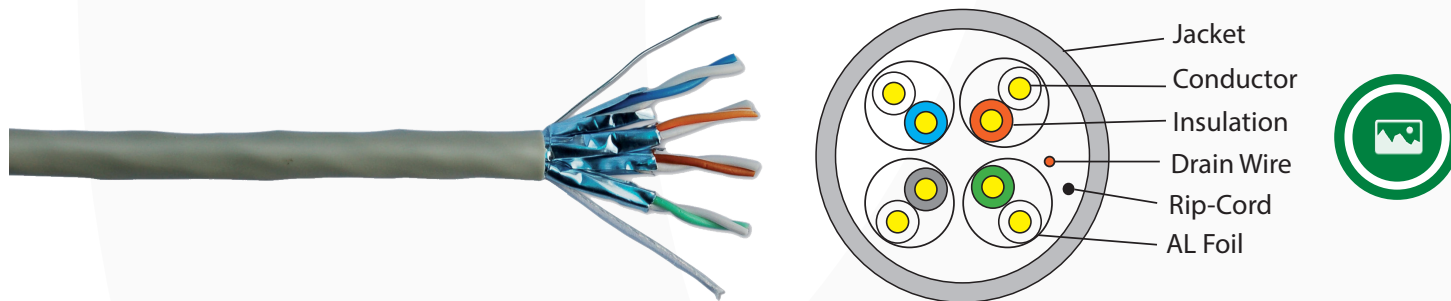
35*35*36cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON





TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	PSNEXT ≥dB	ACR-F ≥dB	PS ACR-F ≥dB	PS ANEXT ≥dB	PS AACR-F ≥dB
1.0	20.0	2.1	74.3	72.3	67.8	64.8	67.0	67.0
4.0	23.0	3.8	65.3	63.3	55.8	52.8	67.0	66.2
10.0	25.0	5.9	59.3	57.3	47.8	44.8	67.0	58.2
16.0	25.0	7.5	56.2	54.2	43.7	40.7	67.0	54.1
20.0	25.0	8.4	54.8	52.8	41.8	38.8	67.0	52.2
31.25	23.6	10.5	51.9	49.9	37.9	34.9	67.0	48.3
62.5	21.5	15.0	47.7	45.4	31.9	28.9	65.6	42.3
100	20.1	19.1	44.3	42.3	27.7	24.8	62.5	38.2
200	18.0	27.6	39.8	37.8	21.8	18.8	58.0	32.2
250	17.3	31.1	38.3	36.3	19.8	16.8	56.5	30.2
300	16.8	34.3	27.1	35.1	18.3	15.3	55.3	28.7
500	15.2	45.3	33.8	31.8	13.8	10.8	52.0	24.2

JACKET PHYSICAL PROPERTIES

JACKET

AGING				COLD BEND	
ITEM	AGING PERIOD	100°*24H*7D		COLD PERIOD	-20±2°C*4H
	Before Aging	After Aging		Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	DESCRIPTION
UF6A.56.PV - E	Cat6A U/FTP AWG23 PVC Jacket
UF6A.56.LS - E	Cat6A U/FTP AWG23 LSZH Jacket CPR class Eca
UF6A.56.PE - F	Cat6A U/FTP AWG23 PE Jacket CPR class Fca
UF6A.56.PVPE - F	Cat6A U/FTP AWG23 PVAC+PE Jacket CPR class Eca

Special Jackets in accordance with customer's requirements

U/UTP CAT6A CABLE



ITEM NO.

- 6A U/UTP AWG23

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- 0.575 ± 0.003 mm

INSULATION

MATERIAL

- HDPE

NOM.O.D.

- 1.05 ± 0.03 mm

JACKET

THICKNESS

- 0.70 ± 0.05 mm

EXTERNAL O.D.

- 7.5 ± 0.3 mm

MATERIAL

- PVC
- LSZH
- PE

COLOR

- As required

ELECTRICAL

CHARACTERISTICS (20)

- Impedance(Ω) 100 ± 15
- Delay Shew(ns/100m) ≤ 45
- NVP 69%
- Capacitance(nf/100m) ≤ 5.6
- DC Resistance(Ω /100m) ≤ 9.5
- DC Conductor Resistance ≤ 5.0
- Unbalance(%)

RIP-CORD

- Yes

DRAIN WIRE

No



WOODEN REEL & CARTON



DIMENSION

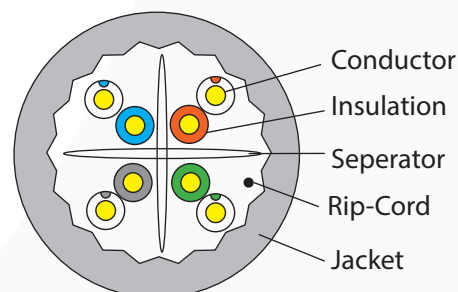
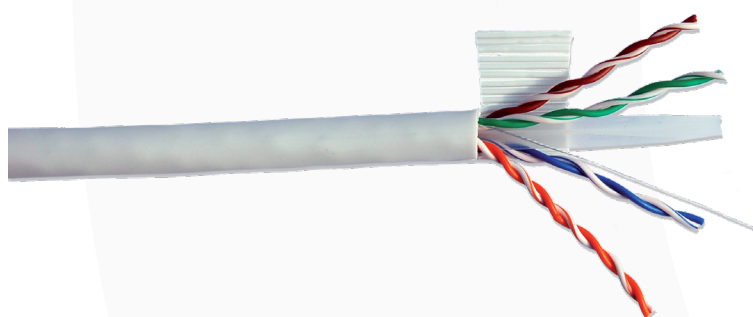
35*35*36cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON





TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	PSNEXT ≥dB	ACR-F ≥dB	PS ACR-F ≥dB	PS ANEXT ≥dB	PS AACR-F ≥dB
1.0	20.0	2.1	74.3	72.3	67.8	64.8	67.0	67.0
4.0	23.0	3.8	65.3	63.3	55.8	52.8	67.0	66.2
10.0	25.0	5.9	59.3	57.3	47.8	44.8	67.0	58.2
16.0	25.0	7.5	56.2	54.2	43.7	40.7	67.0	54.1
20.0	25.0	8.4	54.8	52.8	41.8	38.8	67.0	52.2
31.25	23.6	10.5	51.9	49.9	37.9	34.9	67.0	48.3
62.5	21.5	15.0	47.7	45.4	31.9	28.9	65.6	42.3
100	20.1	19.1	44.3	42.3	27.7	24.8	62.5	38.2
200	18.0	27.6	39.8	37.8	21.8	18.8	58.0	32.2
250	17.3	31.1	38.3	36.3	19.8	16.8	56.5	30.2
300	16.8	34.3	27.1	35.1	18.3	15.3	55.3	28.7
500	15.2	45.3	33.8	31.8	13.8	10.8	52.0	24.2

JACKET PHYSICAL PROPERTIES

JACKET

AGING			COLD BEND	
ITEM	AGING PERIOD	100°*24H*7D	COLD PERIOD	-20±2°C*4H
	Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	No Visible Cracks	
	Elongation	≥150 %		
LSZH	Tensile Strength	≥10.0 Mpa	No Visible Cracks	
	Elongation	≥125%		
PE	Tensile Strength	≥10.0 Mpa	No Visible Cracks	
	Elongation	≥350 %		

P/N	DESCRIPTION
UU6A.57.PV - E	Cat6A U/UTP AWG23 PVC Jacket
UU6A.57.LS - E	Cat6A U/UTP AWG23 LSZH Jacket CPR class Eca
UU6A.57.PE - F	Cat6A U/UTP AWG23 PE Jacket CPR class Fca
UU6A.57.PVPE - F	Cat6A U/UTP AWG23 PVAC+PE Jacket CPR class Eca
UU6A.57.LS - D	Cat6A U/UTP AWG23 LSZH Jacket CPR class Eca

S/FTP CAT7 CABLE



ITEM NO.

- 7 SF/UTP AWG23

TEST STANDARD

- ISO/IEC 11801, TIA/EIA 568C.2

CONDUCTOR

MATERIAL

- Solid Bare Copper

NOM.O.D.

- 0.56 ± 0.003 mm

INSULATION

MATERIAL

- Skin-foam-Skin PE

NOM.O.D.

- 1.35 ± 0.05 mm

SHIELD

- Al Foil

BRAID

- TC/Al Wire

JACKET

THICKNESS

- 0.60 ± 0.05 mm

EXTERNAL O.D.

- 7.5 ± 0.3 mm

MATERIAL

- PVC • LSZH • PE

COLOR

- According to Requires

RIP-CORD

- Yes

DRAIN WIRE

- No

ELECTRICAL

CHARACTERISTICS (20)

IMPEDANCE(Ω)

100 ± 15 100 ± 15

100-250MHz 100 ± 18

250-600MHz 100 ± 25

- Delay Shew(ns/100m) ≤ 25

- NVP 74%

- Capacitance(nf/100m) ≤ 5.6

- Capacitance unbalanced ≤ 330 to-ground(pf/100m)

- DC Resistance(Ω /100m) ≤ 9.5

- DC Conductor Resistance ≤ 2.0 Unbalance(%)



WOODEN REEL & CARTON



DIMENSION

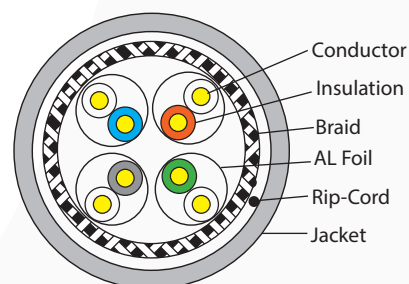
37*37*36cm

LENGTH

305 $\pm$ 1.5m

WOODEN REEL & CARTON





TECHNICAL PERFORMANCE(100M):

FREQUENCY (MHz)	RL ≥dB	ATT(20°) ≤dB	NEXT ≥dB	ACR ≥dB	FREQUENCY (MHz)	ACR ≥dB	ACR-F ≥dB	PS ACR-F ≥dB
1.0	20.0	2.0	78.0	75.0	1.0	76.0	78.0	75.0
4.0	23.0	3.7	78.0	75.0	4.0	74.3	78.0	75.0
10.0	25.0	5.9	78.0	75.0	10.0	72.1	74.0	71.0
16.0	25.0	7.4	78.0	75.0	16.0	70.6	69.9	66.9
20.0	25.0	8.3	78.0	75.0	20.0	69.7	68.0	65.0
31.25	23.6	10.4	78.0	75.0	31.25	67.6	64.1	61.1
62.5	21.5	14.9	75.5	72.5	62.5	60.6	58.1	55.1
100	20.1	19.0	72.4	69.4	100	53.4	54.0	51.0
200	18.0	27.5	67.9	64.9	200	46.2	50.2	45.0
250	17.3	31.0	66.4	63.4	250	40.4	46.0	43.0
300	17.3	34.2	65.2	62.2	300	31.0	44.5	41.5
600	17.3	50.1	60.7	57.7	600	10.6	38.4	35.4

JACKET PHYSICAL PROPERTIES

JACKET

AGING			COLD BEND	
ITEM	AGING PERIOD	100°*24H*7D	COLD PERIOD	-20±2°C*4H
	Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	No Visible Cracks	
	Elongation	≥150 %		
LSZH	Tensile Strength	≥10.0 Mpa	No Visible Cracks	
	Elongation	≥125%		
PE	Tensile Strength	≥10.0 Mpa	No Visible Cracks	
	Elongation	≥350 %		

P/N	DESCRIPTION
SFU7.57.PV	Cat7 S/FTP AWG23 PVC Jacket
SFU7.57.LS - E	Cat7 S/FTP AWG23 LSZH Jacket CPR class Eca
SFU7.57.PE - F	Cat7 S/FTP AWG23 PE Jacket CPR class Fca

Special Jackets in accordance with customer's requirements



www.afsoncable.com

www.afsonuk.com



HANGZHOU AFSON Electronic co.ltd
HANGZHOU AFSON Cable& wire co.ltd



AFSONUK ltd
Cable& wire co.ltd