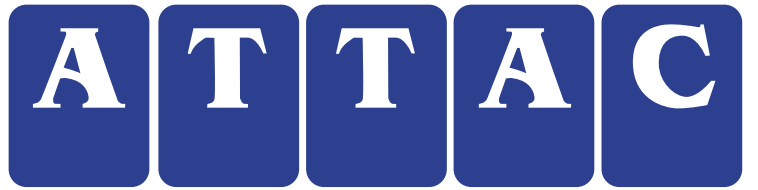


Catalogue



Structured Cabling Solutions





ATTAC

Structured Cabling Solutions

ATTAC Structured Cabling Solutions is a range of products designed in Dortmund, Germany and is currently manufactured in China and assembled and packaged in South Africa.

ATTAC carries a 30 year link warranty which gives IT managers peace of mind when designing networks.

ATTAC is one of three product brands which are certified and approved by SITA and as such the range can be used in all government and semi government institutions.

ATTAC's main aim and goal currently is to penetrate the corporate/government markets effectively and provide solutions to assist IT managers to have better control and a more robust affordable network.

ATTAC has been in existence since 2003 and is in a strong growth phase. Please see our website to ascertain the distributors in Sub-Saharan Africa.

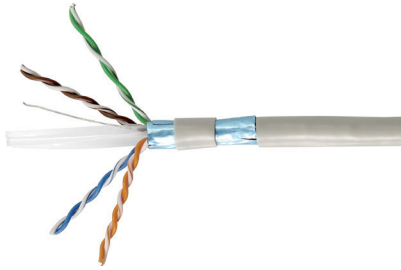
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business card
placement

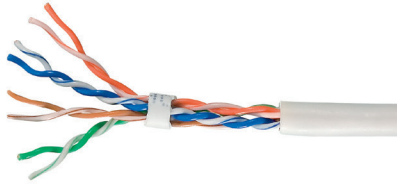
Installation Cables & Patch Panels



Cat.6 F/UTP Installation Cable

- 23 AWG
- 250 MHz
- Solid
- Single shielded
- Twisted pair copper cable
- UL listed, performance tested
- Class CM, maximum reliability
- Color: Grey

C6UVFTP: 300m



Cat.6 U/UTP Installation Cable

- 24 AWG
- 250 MHz
- Stranded
- PVC
- Twisted pair copper cable
- UL listed, performance tested
- Class CM, maximum reliability
- Color: beige

ACSC6UV: 300m



Cat5e Patch Panel - Unshielded

- 45° dual IDC (LSA and 110) compatible
- Numbered RJ45 Ports, label fields
- Color coded LSA terminals clamps according to EIA/TIA 568A/B
- 19" 1U

color: black

AP12: 12-port
AP16: 16-port
AP24: 24-port



Cat.6 (Class E) Patch Panel - w/ rear management

- Class E according to ISO/IEC 11801 and EN50173
- 45° dual IDC (LSA and 110) compatible
- Sheet steel housing with cable entry
- 19" 1U

color: black

AP24C6M: 24-port



Blank Panel

- Metal
- 19"

color: black

ABP1: 1U
ABP2: 2U



Cable Management Panel

- Metal
- With 5 plastic cable holders
- 19" 1U

color: black

ACMP: 1U



Patch panel accessories & Data boxes



Cat5e Surface Mounted Box

- Unshielded
- According to EIA/TIA 568A/B
- IDC/LSA terminals
- Color: pure white (RAL 9010)

ABS: 1-Port

ABD: 2-Port

Cat6 (Class E) Surface Mounted Box

- Unshielded
- Class E according to ISO/IEC 11801 and EN50173
- According to EIA/TIA 568A/B
- IDC/LSA terminals
- Color: pure white (RAL 9010)

ABS6: 1-Port

ABD6: 2-Port



RJ45 Modular Plug

- For round cable
- Unshielded
- 8P8C

ACON: Cat5e without boot

ACON6: Cat6 without boot



RJ45 Boot

- Antikink boot for RJ45 plug
- Plastic
- Color: black

RJ45BOOT: Black
RJ45BOOTBL: Blue
RJ45BOOTG: Grey
RJ45BOOTR: Red
RJ45BOOTY: Yellow



Cat5 Unshielded Keystone Jack LSA

- Unshielded
- LSA connector
- EIA/TIA 568 coded
- Snap-in mounting

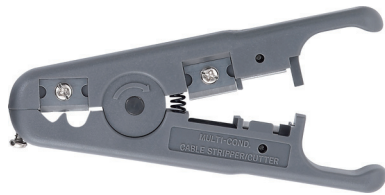
AK5E



Cat6 Unshielded Keystone Jack LSA

- Unshielded
- LSA connector
- EIA/TIA 568 coded
- Snap-in mounting

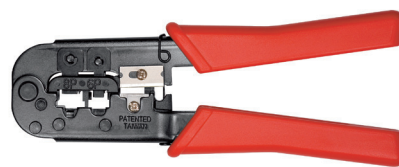
AK6



Universal Stripping Tool

- For dismantling of UTP, STP, ISDN, telephone and data cables up to max. 9mm

STRIP



Universal Crimping Tool

- Crimps modular connectors 6P/4C, 6P/6C, and 8P/8C
- With stripping and cutting function
- With round cable stripper

UST



Network / Modular / USB Cables Tester

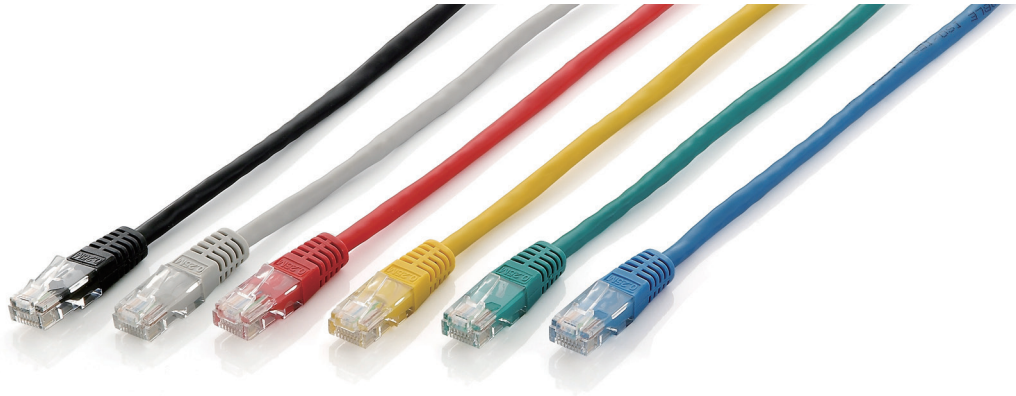
- Master and remote unit
- Tests shielding, transmission, short circuit and wiring errors
- Extensive diagnostic display for pin-out and pair display for 10BaseT, 100BaseTX, 10Base2, USB
- Tests 4/6/8 pin patch cables (RJ11/12/45) as well as installed cables up to 100m

UNT

Patch cables

Cat5 U/UTP Patch Cable

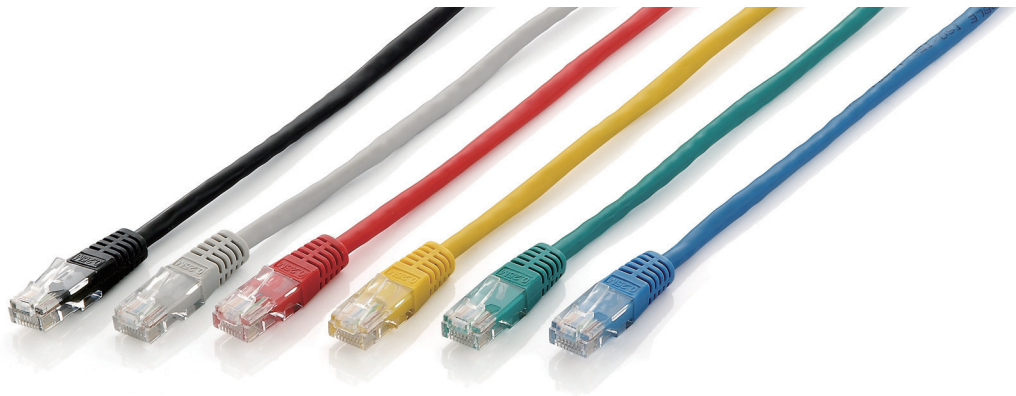
- Stranded 26AWG with 250MHz performance
- Gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- PVC jacket for flexibility and durability
- ISO/IEC 11801, EN50288 and TIA/EIA 568-C.2



	Grey	Red	Blue	Green	Black	Yellow
0.5m						
1.0m	AP1		AP1B			AP1Y
2.0m			AP2B			AP2Y
3.0m	AP3G		AP3B			AP3Y
5.0m	AP5G					
7.5m						
10m	AP10G					
15m						
30m	AP30G					

Cat6 U/UTP Patch Cable

- Stranded 26AWG with 250MHz performance
- Gold plated contacts for best connection
- Molded assemblies with great strain relief properties
- PVC jacket for flexibility and durability
- ISO/IEC 11801, EN50288 and TIA/EIA 568-C.2









	Grey	Red	Blue	Green	Black	Yellow
0.5m						
1.0m	AP1G6		AP1B6			AP1Y6
2.0m	AP2G6		AP2B6			AP2Y6
3.0m	AP3G6		AP3B6			AP3Y6
5.0m						
7.5m						
10m						
15m						
30m						

Technical glossary








Copper Patch Cords

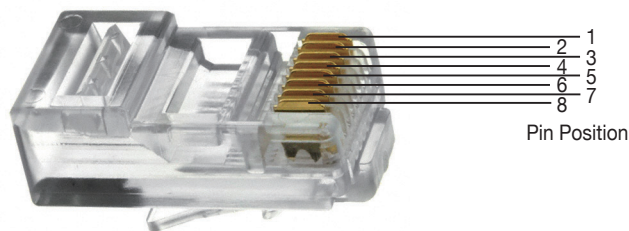
The copper patch cords are composed of four twisted pair of bare copper wires which conduct the electronic pulses smoothly. The eight wires of the patch cords are color-coded according to TIA/EIA 568A or TIA/EIA 568B standard. A cable with T568A at one end and T568B at the other is called a crossover cable, which is catering to connect two computing devices together directly without using a switch or a hub and also used to connect two hubs or two switches on their upstream ports.

TIA/EIA-568 T568A termination

Pin	Pair	Wire	Color
1	3	tip	 white/green
2	3	ring	 green
3	2	tip	 white/orange
4	1	ring	 blue
5	1	tip	 white/blue
6	2	ring	 orange
7	4	tip	 white/brown
8	4	ring	 brown

TIA/EIA-568 T568B termination

Pin	Pair	Wire	Color
1	2	tip	 white/orange
2	2	ring	 orange
3	3	tip	 white/green
4	1	ring	 blue
5	1	tip	 white/blue
6	3	ring	 green
7	4	tip	 white/brown
8	4	ring	 brown



Category and Class

“Category” means something completely different than “Class”. The category applies only on a single component e.g. a cable or an outlet, the component is verified by the labs of the manufacturer or independent verification labs. The class as such always applies to the installed link. The installed link is always tested according to classes.

The international standard ISO/IEC 11801 defines several classes of twisted-pair copper interconnects, which differ in the maximum frequency for which a certain channel performance is required:

Class D: up to 100 MHz using elements category 5e

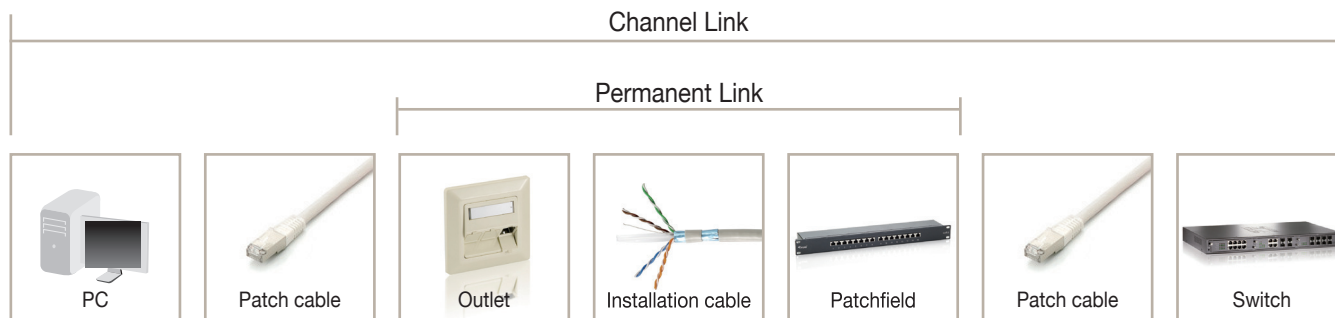
Class E: up to 250 MHz using elements category 6

Class EA: up to 500 MHz using elements category 6A

Class F: up to 600 MHz using elements category 7

Class FA: up to 1000 MHz using elements category 7A

The comparison of two different routes of cabling is drawn below:



The Permanent Link covers the horizontal installation which includes the installation cable, patch panel, and the outlet or junction box at the other end. The Channel Link covers the patch cords as well as the components of permanent link. A set of measurements is defined in the ISO/IEC standard to unify the quality of structured cabling.

- Return Loss (RL)

The Return Loss is the measurement of the amount of signal that is reflected back toward the transmitter. The reflection of the signal is caused by the variations of impedance in the connectors and cable and is usually attributed to a poorly terminated wire. The greater the variation in impedance, the greater the return loss reading is.

- Attenuation-to-Crosstalk Ratio (ACR)

Attenuation-to-Crosstalk ratio (ACR) is the difference between the signal attenuation produced and NEXT. The ACR indicates how much stronger the attenuated signal is than the crosstalk at the destination (receiving) end of a communications circuit.

- Power Sum ACR (PSACR)

The difference from the ACR is PSACR used PSNEXT in the calculation rather than NEXT.

- Near-End Cross Talk (NEXT)

It is the difference in amplitude (in dB) between a transmitted signal and the crosstalk received on other cable pairs at the same end of the cabling. Higher NEXT values correspond to better cabling performance.

- Power Sum NEXT (PSNEXT)

Power Sum NEXT (PSNEXT) is the sum of NEXT values from 3 wire pairs as they affect the other wire pair.

- Far-End Crosstalk (ELFEXT)

FEXT is very similar to NEXT, but happens at the receiver side of the connection.

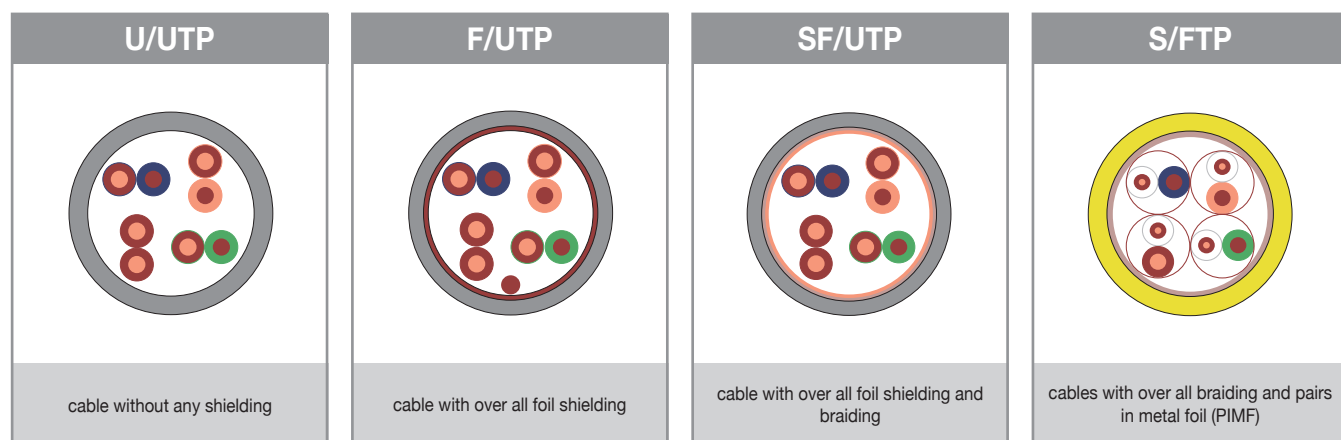
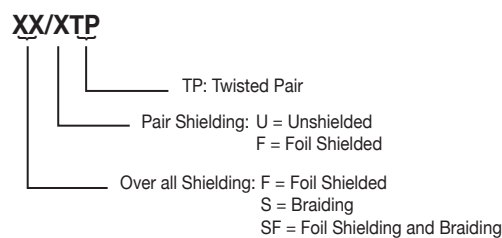
- Equal Level Far End Crosstalk (ELFEXT)

Equal Level Far End Crosstalk (ELFEXT) is a length-independent value for the transmission quality, which defines the ratio of the crosstalk output level to the actual output level. The second pair of wires strwn on the noise level is compared to the starting level.

- Power Sum ELFEXT (PSELFEXT)

Power Sum ELFEXT (PSELFEXT) is the sum of ELFEXT values from 3 wire pairs as they affect the other wire pair.

The Construction of Cable





ATTAC

Structured Cabling Solutions

ATTAC SA (Pty) Ltd

www.attac-sa.co.za

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