



WELCON CAT 6a CABLES:

10G Cat.6A cabling solution provides transmission performance that exceeds the industry standards for category 6 parameters and supports the operation of 10GBASE-T over 100-meter. 10G Cat.6A cabling solutions are qualified for frequencies up to 500 MHz

- Performance conforms to proposed Cat.6A channel requirement of TIA/EIA-568-B.2-10, Class EA ISO/IEC 11801, CENELEC EN 50173 and IEEE802.3an.
- Support T568 A& B wiring & Easy installation.

WELCON CAT 6a CABLES SPEC:

| Part No. | Type | Conductor | Core Dimension/mm | No. of Pairs | Shielding | Nom OD/mm |
|----------|------|-----------|-------------------|--------------|---------------|-----------|
| CA3007 | UTP | 1/0.57 | 1.0 | 4 | - | 7.5 |
| CA3008 | SSTP | 1/0.57 | 1.38 | 4 | Al foil+Braid | 7.5 |

WELCON CAT 6a CABLE DESCRIPTION:

| Frequency MHz | Impedance Ohm | Attenuation dB/100m | Next dB | Next Sum dB |
|---------------|---------------|---------------------|---------|-------------|
| 1 | 100±15 | 2 | 66 | 64 |
| 10 | | 5.8 | 59 | 57 |
| 100 | | 19 | 44 | 42 |
| 200 | | 27.5 | 40 | 38 |
| 250 | | 31 | 38 | 36 |
| 300 | | 34.2 | 37 | 35 |
| 450 | | 42.7 | 35 | 33 |
| 500 | | 45.3 | 34 | 32 |



WELCON CAT 5e CABLE SPEC:

Structure:PE insulation,Free PVC or PVC Jacket
Standards:ISO/IEC 11801,ANSI/TIA/EIA-568A
Application:Used as work station outthe 100 Base-T4;100 Base-TX;100VG-Any LAN; 1000 Base-T (Gigabi Ethernet);155Mbps ATM;622Mbps ATM.

| Part No. | Construction | Conductor (AWG) | Core Dimension/mm | No.Of Pairs | Shielding | Nom O.D./mm |
|----------|--------------|-----------------|-------------------|-------------|--------------------|-------------|
| CA3001 | UTP | 24 AWG | 0.92 | 4 | --- | 5.2 |
| CA3002 | FTP | 24 AWG | 0.96 | 4 | Al foil | 5.7 |
| CA3003 | SFTP | 24 AWG | 0.96 | 4 | Al foil + Cu braid | 6.0 |

WELCON CAT 6 CABLE SPEC:

Structure:PE insulation,Free PVC or PVC Jacket
Standards:ISO/IEC 11801,ANSI/TIA/EIA-568A
Application:Used as work station outthe 100 Base-T4;100 Base-TX;100VG-Any LAN; 1000 Base-T (Gigabi Ethernet);155Mbps ATM;622Mbps ATM.

| Part No. | Construction | Conductor (AWG) | Core Dimension/mm | No.Of Pairs | Shielding | Nom O.D./mm |
|----------|--------------|-----------------|-------------------|-------------|--------------------|-------------|
| CA3004 | UTP | 23/24 AWG | 0.95 | 4 | --- | 6.2 |
| CA3005 | FTP | 23/24 AWG | 1.0 | 4 | Al foil | 6.5 |
| CA3006 | SSTP | 23/24 AWG | 1.2 | 4 | Al foil + Cu braid | 6.8 |

WELCON CAT 5e & CAT 6 CABLE DESCRIPTION:

| Type Compli-ant | Frequency MHz | Impedance Ohm | Return Loss dB | Attenuation dB/100m | Next Worst Pair/dB | Next Power Sum/dB | ELFEXT Worst Pair/dB | ELFEXT Power Sum/dB | |
|-----------------|---------------|---------------|----------------|---------------------|--------------------|-------------------|----------------------|---------------------|------|
| CAT 6 | 0.772 | 100±15 | 19.4 | 1.8 | 67.0 | 64.0 | 66.0 | 63.0 | |
| | 1 | | 20.0 | 2.0 | 65.3 | 62.3 | 63.8 | 60.8 | |
| | 4 | | 23.0 | 4.1 | 56.3 | 53.3 | 51.7 | 48.7 | |
| | 8 | | 24.5 | 5.6 | 51.8 | 48.8 | 46.7 | 42.7 | |
| | 10 | | 25.0 | 6.5 | 50.3 | 47.3 | 43.8 | 40.8 | |
| | 16 | | 25.0 | 8.2 | 47.3 | 44.3 | 39.7 | 36.7 | |
| | 20 | | 25.0 | 9.3 | 45.8 | 42.8 | 37.7 | 34.7 | |
| | 25 | | 24.3 | 10.4 | 44.3 | 41.3 | 35.8 | 32.8 | |
| | 31.5 | | 23.6 | 11.7 | 42.9 | 39.9 | 33.9 | 30.9 | |
| | 62.5 | | 21.5 | 17.0 | 38.4 | 35.4 | 27.6 | 24.8 | |
| | 100 | | 20.1 | 22.0 | 35.3 | 32.3 | 23.8 | 20.8 | |
| | 200 | | 100±22 | 18 | 29 | 39.8 | 37.8 | 21.8 | 18.8 |
| | 250 | | 17.3 | 32.8 | 38.3 | 36.3 | 19.6 | 16.8 | |



CATEGORY 5e PATCH CABLE - ETL VERIFIED

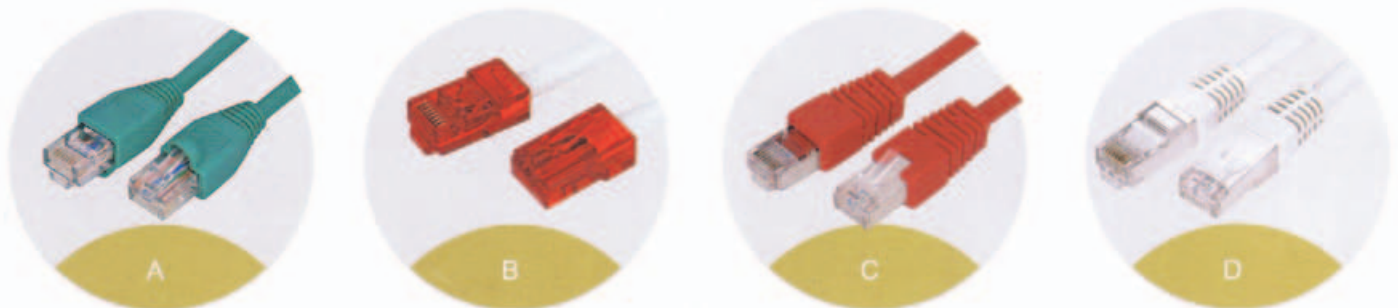
Bridge the gap in your workspace with Welcon's new snagless patch cables. Constructed with only top quality components, the colored hoods help keep things in your department organized. Strain relief minimizes the damage to the ends of the plugs by preventing the cable from being bent at sharp angles.

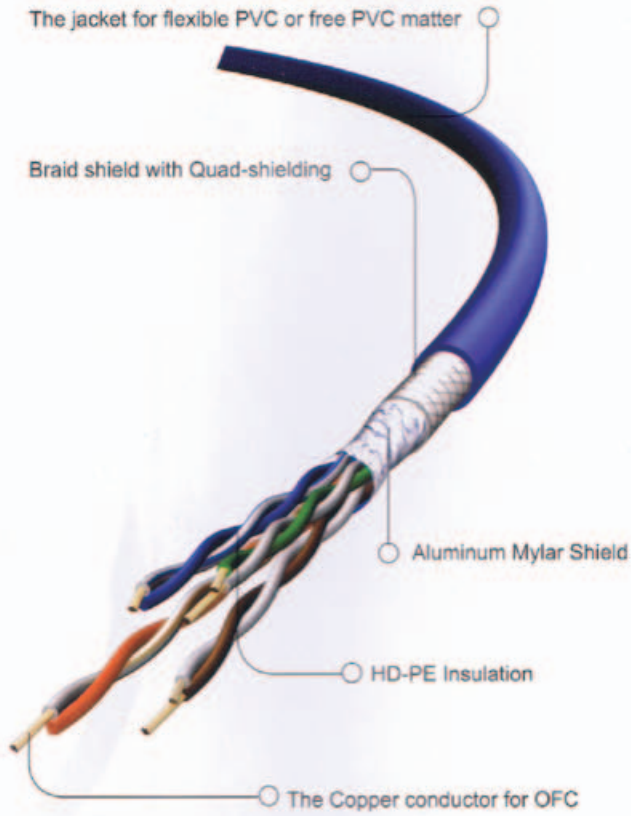
CAT 5e PATCH CORD CABLES

| | | | | |
|---|----------------|-----|---------------|--|
| 1 | Sketch | | | |
| | | <1> | Connector | RJ45, Unshield/shield Connector, With 1-50µ gold plate. PVC or Free PVC over molding. |
| 2 | PinOut | <2> | Model | PVC or Free PVC cover. No model |
| | | <3> | Cable | Cat 5e cable, UL NO E258106, meet TIA/EIA-568-A |
| | | <4> | 568A-568A | Used to PC to Hub |
| | | <5> | 568B-568B | Used to PC to Hub |
| 3 | Packing | <6> | 568A-568B | (Cross over), Used to PC to PC, Hub to Hub |
| | | <7> | Bareness | |
| 4 | Test Frequency | <8> | PE packet | |
| | | <9> | Plastic sheet | |

From 1MHz to 100M Hz

MODELS:





WELCON CAT5e PATCH CORD SERIES CABLES

| Model | Type | PinOut | Color |
|--------|------|------------|-----------|
| PC4001 | UTP | Straight | 568A-568A |
| PC4002 | UTP | Straight | 568B-568B |
| PC4003 | UTP | Cross Over | 568A-568B |
| PC4004 | FTP | Straight | 568A-568A |
| PC4005 | FTP | Straight | 568B-568B |
| PC4006 | FTP | Cross Over | 568A-568B |
| PC4007 | SFTP | Straight | 568A-568A |
| PC4008 | SFTP | Straight | 568B-568B |
| PC4009 | SFTP | Cross Over | 568A-568B |





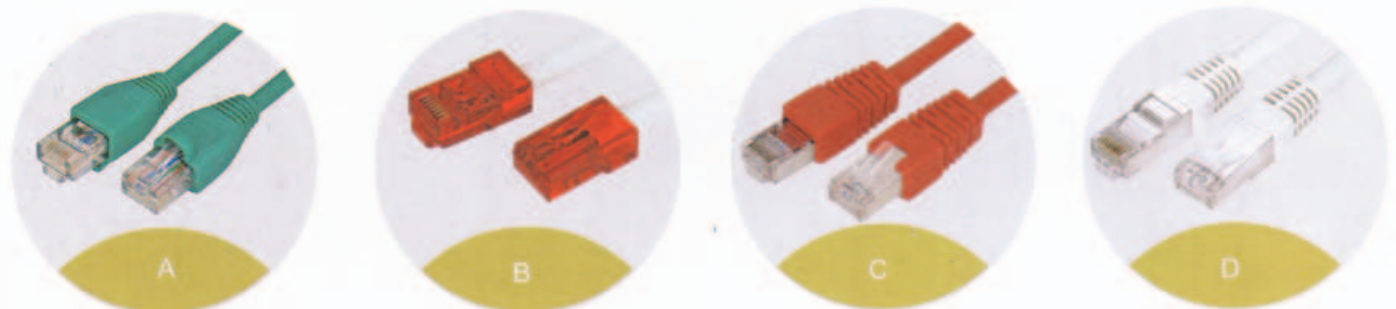
CATEGORY 6 PATCH CORD CABLE

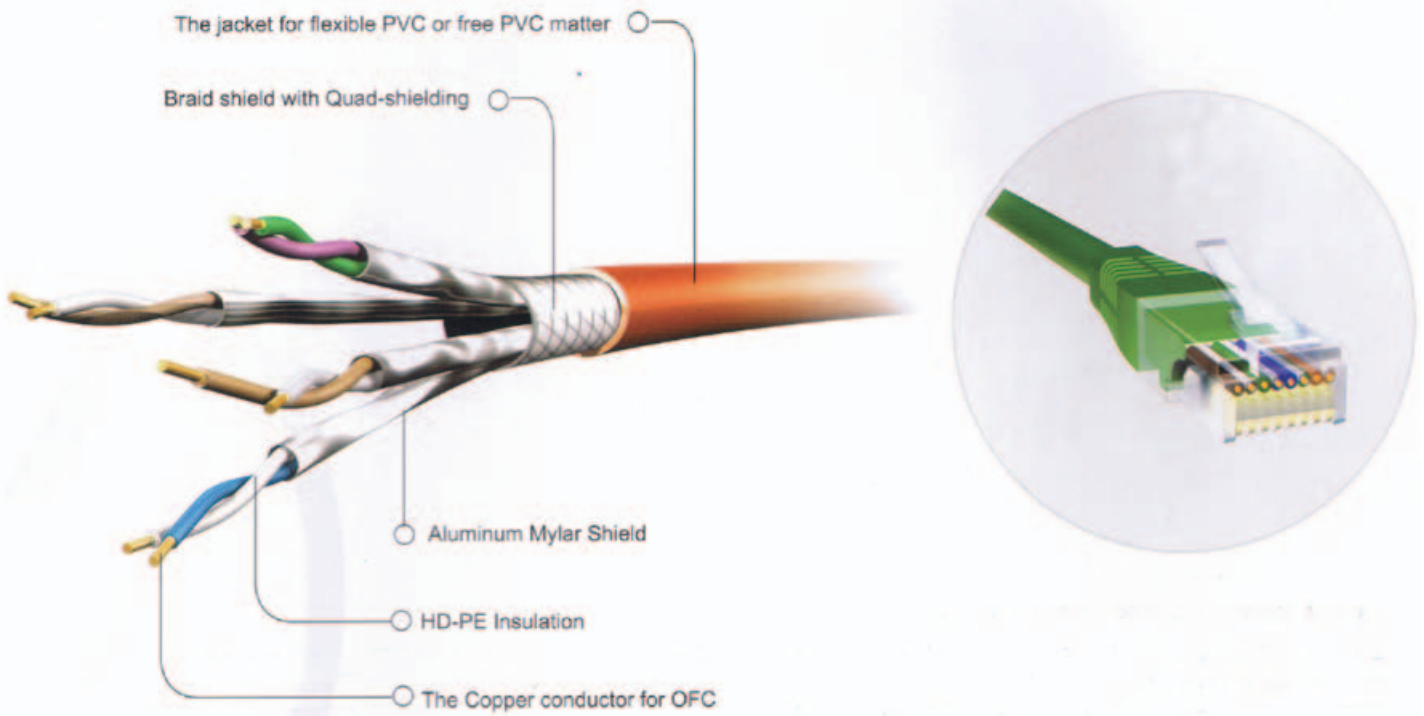
Welcon's Category 6 cables are the perfect way to connect your workspace's emerging gigabit networks. Category 6 cables improve upon the Category 5e specification by providing twice the available bandwidth (up to 500Mhz), and a signal-to-noise margin improvement that is sixteen times (12dB) better than that provided by Cat 5e. All of Broad's Cat 6 cables are constructed by our highly trained staff with only top quality components that ensure they meet Broad's strict standards for reliability.

CAT 6 PATCH CORD CABLES

| | | | | |
|---|----------------|----------------------|---------------|--|
| 1 | Sketch | | | |
| | | <1> | Connector | RJ45,Unshield/shield Connector,With 1-50µ gold plate. PVC or Free PVC over molding. |
| | | <2> | Model | PVC or Free PVC cover. |
| | | <3> | Cable | None |
| 2 | PinOut | <1> | 568A-568A | Cat 6 cable,UL NO.E258106,meet TIA/EIA-568-A Used to PC to Hub |
| | | <2> | 568B-568B | Used to PC to Hub |
| | | <3> | 568A-568B | (Cross over).Used to PC to PC,Hub to Hub |
| 3 | Packing | <1> | Bareness | |
| | | <2> | PE packet | |
| | | <3> | Plastic sheet | |
| 4 | Test Frequency | From 1MHz to 250M Hz | | |

MODELS:





WELCON CAT 6 PATCH CORD SERIES CABLES

| Model | Type | | PinOut | Color |
|--------|------|------------|-----------|----------|
| PC4010 | UTP | Straight | 568A-568A | Optional |
| PC4011 | UTP | Straight | 568B-568B | |
| PC4012 | UTP | Cross Over | 568A-568B | |
| PC4013 | FTP | Straight | 568A-568A | |
| PC4014 | FTP | Straight | 568B-568B | |
| PC4015 | FTP | Cross Over | 568A-568B | |
| PC4016 | SSTP | Straight | 568A-568A | |
| PC4017 | SSTP | Straight | 568B-568B | |
| PC4018 | SSTP | Cross Over | 568A-568B | |

