

# CAT 6 – Patch Cables



## CAT 6 - UTP Patch Cables and Cross-Over Patch Cables

### Description

ACTON's Category 6 patch cables and cross-over cables are factory manufactured using premium quality stranded conductor UTP cable and low crosstalk modular plugs and are fully tested to ensure consistent high performance.

The patch cords are suitable cabling wired in T568A or T568B configurations. Cross-over cables are suitable for direct hub to hub or PC to PC connections.

The Category 6 patch cables have been designed for high-speed voice & data applications and can be used together with Category 6 cable and accessories to construct a channel with Category 6/ Class E performance.

UL certified Category 6 channel performance when used when used together with Acton Category 6 cable, patch panel and jacks.

### Key Features

- Available in 7 standard lengths from 0.5m -10m
- Patch cables available in a choice of 9 cable colours with matching boots
- Cross-over cables and boots are red for easy identification
- 8-position unshielded modular plug (RJ45) with 50 microinches of gold over nickel contacts
- Suitable for Category 6 / Class E channels
- Channel Compliant
- Standards and ACA compliant

### Ordering Information:

**C6PLYY-XX** - Cat 6 patch cable

**C6XPLYY-RD** - Cat 6 cross-over cable, red

Replace "YY" with standard length in metres: 0.5, 1, 1.5, 2, 3, 5, 10

Replace "XX" with colour code: BK=black, GN=green, GY=grey, OR=orange, PK=pink, PL=purple, RD=red, WH=white, YL=yellow

### Available From

# Technical Information

## PERFORMANCE SPECIFICATIONS

AS/NZS 3080:2003  
AS/ACIF S008: 2001  
ISO/IEC11801: 2002  
ANSI/TIA/EIA-568-B.2

## APPROVALS:

UL Certified Category 6 channel performance when used together with Acton Category 6 cable, patch panel and jack.  
ACA Compliant (N13181)

## MECHANICAL SPECIFICATIONS

Plug insertion durability:  $\geq 750$  mating cycles  
Cable to plug tensile strength:  $\geq 89$  N

## ELECTRICAL SPECIFICATIONS

Plug insulation resistance:  $\geq 500M\Omega$   
Plug contact resistance:  $\leq 10$  m $\Omega$   
Plug DC resistance:  $\leq 0.1\Omega$   
Plug current rating:  $\geq 1.5$  A  
Plug dielectric withstanding voltage:  $\geq 1KV$  RMS

## PHYSICAL SPECIFICATIONS

Cable diameter: 5.4 mm  $\pm$  0.2mm  
Cable conductor: 24 AWG stranded bare copper wire  
Cable sheath: CM grade PVC  
Plug: Meets FCC part 68 and IEC 603-7  
Plug/ boot material: Plug flame retardant plastic, UL94V-O; boot PVC  
Plug contacts: Phosphor bronze with 50 $\mu$  inches gold over nickel plating  
Operating temperature range: -10°C to 60° C

## SUPPORTED APPLICATIONS

Voice  
ISDN: Basic & Primary Access  
Token Ring: 4/16/100 Mbps  
ATM: 25/52/155 Mbps ; 1.2 Gbps  
Ethernet: 10BASE-T; Fast Ethernet: 100BASE-TX/T2/T4; Gigabit Ethernet: 1000BASE-T  
Broadband video

## Acton International Ltd. USA

1022 Lawson Street  
City of Industry, California 91748 USA  
Tel: 626-913-5888 Fax: 626-913-6088  
Email: sales@actonsystems.com  
Web: www.actonsystems.com