



**Features and Benefits**

Molex Premise Networks PowerCat 6 patch cords are manufactured using high quality unshielded four pair Category 6 stranded cable. Available in a range of colours and lengths, PowerCat 6 patch cords are pre-terminated with RJ45 plugs and feature cable strain relief boots with a plug latch protection cap.

Suitable for high speed data transmission, PowerCat 6 patch cords have been designed to exceed the highest electrical performance standards in the industry and have been independently tested and verified by ETL SEMKO for Category 6 component compliance.

- Unshielded 4 pair stranded cable
- Pre-terminated with WE8W plugs
- Strain relief boots
- Independently tested

**Compliant With**

TIA/EIA-568-B.2-1, FCC Part 68 (Plug dimensions and tolerances), ISO 60603-7, ISO 11801:2002, EN 50173:2002

**Approvals**

UL  
CSA  
ETL Verified for Category 6 Component Compliance

**Technical Information**

**Mechanical Characteristics - Cable**

Conductor size: 24 AWG stranded bare copper  
Max O.D.: 5.6mm  
Jacket: LSZH  
Temperature range: -20°C to +60°C

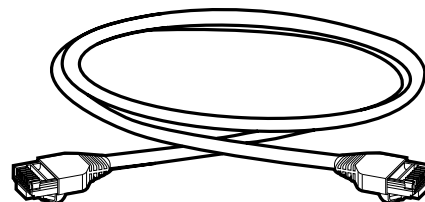
**Mechanical Characteristics - Plug**

Operating life: Minimum 750 insertion cycles  
Contact material: Copper alloy  
Contact plating: 1.25 micrometres Au/Ni

Plug dimensions & tolerances compliant with  
FCC Part 68 and IEC 60603-7

**Electrical Characteristics - Plug**

Max voltage: 150 VAC (max)  
Max current: 1.5A @ 25°C  
Operating temperature: -40°C to 85°C



**ORDERING INFORMATION**

Order No.	Description
PCD-00282-0*	Line Cord UTP 568A/B - 0.5m C6
PCD-00283-0*	Line Cord UTP 568A/B - 1m C6
PCD-00284-0*	Line Cord UTP 568A/B - 1.5m C6
PCD-00285-0*	Line Cord UTP 568A/B - 2m C6
PCD-00286-0*	Line Cord UTP 568A/B - 2.5m C6
PCD-00287-0*	Line Cord UTP 568A/B - 3m C6
PCD-00288-0*	Line Cord UTP 568A/B - 3.5m C6
PCD-00289-0*	Line Cord UTP 568A/B - 4m C6
PCD-00290-0*	Line Cord UTP 568A/B - 5m C6
PCD-00291-0*	Line Cord UTP 568A/B - 6m C6
PCD-00292-0*	Line Cord UTP 568A/B - 7m C6
PCD-00293-0*	Line Cord UTP 568A/B - 8m C6
PCD-00294-0*	Line Cord UTP 568A/B - 9m C6
PCD-00295-0*	Line Cord UTP 568A/B - 10m C6
PCD-00296-0*	Line Cord UTP 568A/B - 15m C6
PCD-00297-0*	Line Cord UTP 568A/B - 20m C6



\* Colour Options C=Red, E=Grey, H=Blue, J=Green, K=Yellow, N=Orange, P=Purple, B=Black.

**MOLEX PREMISE NETWORKS**

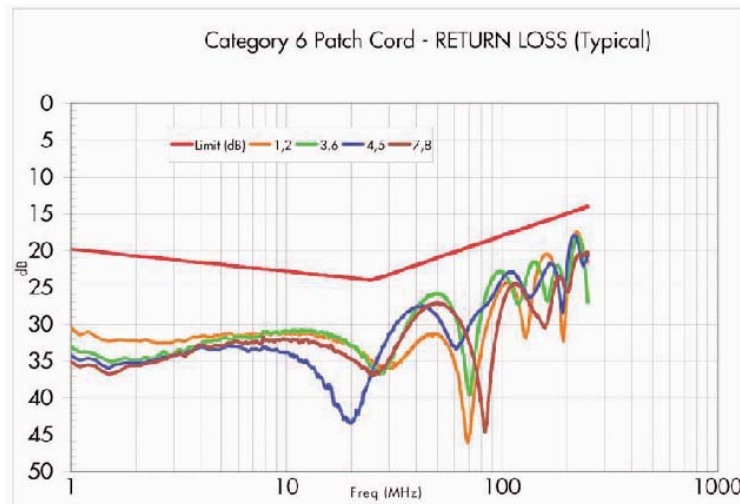
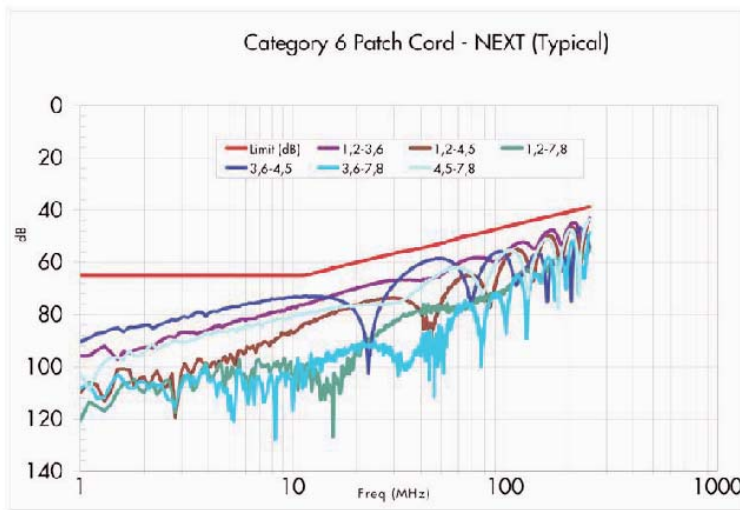
Molex Premise Networks  
Corporate Headquarters  
New Hampshire, USA  
Tel: 1 603 324 0200  
www.molexpn.com

European Headquarters  
Hampshire, England  
Tel: 44 (0) 1489 527111  
www.molexpn.co.uk

Pac Rim Headquarters  
Victoria, Australia  
Tel: 61 3 9971 7111  
www.molexpn.com.au



3 ft. Category 6 Patch Cord Worst Case (in -dB)				
Frequency (MHz)	NEXT		Return Loss	
	NEXT LIMIT	NEXT	LIMIT	Return Loss
1	65.00	94.00	19.80	30.70
4	65.00	85.90	21.60	33.40
8	65.00	78.90	22.50	32.70
10	65.00	77.30	22.80	32.50
16	62.60	74.30	23.40	31.30
20	60.70	73.20	23.70	31.30
25	58.80	72.40	23.90	31.00
31.25	56.70	70.30	23.00	31.30
62.5	50.90	64.30	20.00	25.60
100	47.00	63.20	18.00	24.40
200	41.10	46.30	14.90	17.50
250	39.20	42.50	14.00	18.20



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Molex Premise Networks  
Corporate Headquarters  
Tel: 603 324 0200  
www.molexpn.com

European  
Headquarters  
Tel: 44 (0) 1489 572111  
www.molexpn.co.uk

South Pacific  
Headquarters  
Tel: 61 3 9747 8322  
www.molexpn.com.au

Molex Incorporated  
Tel: 630 969 4550  
www.molex.com



**Features and Benefits**

Molex Premise Networks PowerCat Patch Cords utilise Category 5E stranded 4 Pair UTP cable, which has been designed to support high speed data transmission systems. These patch cords are part of the PowerCat System range of products, that have been designed based on the PowerSum principle of crosstalk measurement and testing.

- Unshielded 4 Pair Stranded Cable
- Category 5E
- Pre-terminated with WE8W Plugs and slim-line Strain Relief Boots

**Compliant With**

TIA/EIA-568-B.2-1, FCC Part 68 (Plug dimensions and tolerances), ISO 60603-7, ISO 11801:2002, EN 50173:2002

**Approvals**

UL

**Technical Information**

**Cable:**

**Mechanical**

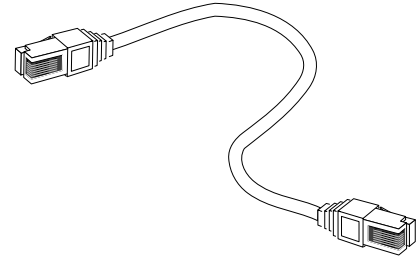
Conductor Size : 24 AWG Standed Copper  
 Temp Range: -10 to 60°C  
 Dielectric Material: Polyethylene  
 Diameter of Dielectric Core: 0.96 ± 0.05mm  
 Sheath : LSZH  
 O.D: 5.4 ± 0.2m

**UTP RJ45 Plug**

Operating Life : Minimum 750 insertion cycles  
 Contact Material : Phosphor bronze  
 Contact Plating : 50 micro-inch gold  
 Material : Polycarbonate UL94 V-0

**Electrical**

Max. Voltage: 125 vac  
 Max. Current: 1.5A



Frequency	NEXT (Typical)	Return Loss (Typical)
	2m Cord (dB)	2m Cord (dB)
1	74.5	42.3
4	64.6	33.5
8	59.1	32.2
10	57.8	31.8
16	57.1	31.2
20	59.1	30.6
25	68.9	28.9
31.25	56.5	26.7
62.5	42.6	30.5
100	37.7	21.2

**ORDERING INFORMATION**

Order No.	Description
PCD-00266-0*	Line Cord UTP 568A/B - 0.5m C5e
PCD-00267-0*	Line Cord UTP 568A/B - 1m C5e
PCD-00268-0*	Line Cord UTP 568A/B - 1.5m C5e
PCD-00269-0*	Line Cord UTP 568A/B - 2m C5e
PCD-00270-0*	Line Cord UTP 568A/B - 2.5m C5e
PCD-00271-0*	Line Cord UTP 568A/B - 3m C5e
PCD-00272-0*	Line Cord UTP 568A/B - 3.5m C5e
PCD-00273-0*	Line Cord UTP 568A/B - 04m C5e
PCD-00274-0*	Line Cord UTP 568A/B - 5m C5e
PCD-00275-0*	Line Cord UTP 568A/B - 6m C5e
PCD-00276-0*	Line Cord UTP 568A/B - 7m C5e
PCD-00277-0*	Line Cord UTP 568A/B - 8m C5e
PCD-00278-0*	Line Cord UTP 568A/B - 9m C5e
PCD-00279-0*	Line Cord UTP 568A/B - 10m C5e
PCD-00280-0*	Line Cord UTP 568A/B - 15m C5e
PCD-00281-0*	Line Cord UTP 568A/B - 20m C5e

\* Colour Options

C=Red, E=Grey, H=Blue, J=Green, K=Yellow, N=Orange, P=Purple, B=Black

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**Pac-Rim  
Headquarters**  
 Tel: 61 3 9747 8322  
 www.molexpn.com.au

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Incorporated**  
 Tel: 630 969 4550  
 www.molex.com