


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

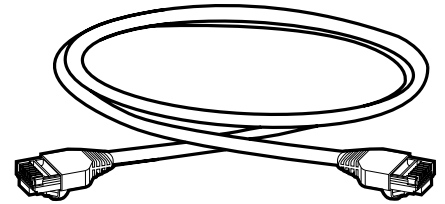
Mechanical Characteristics - Plug

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.


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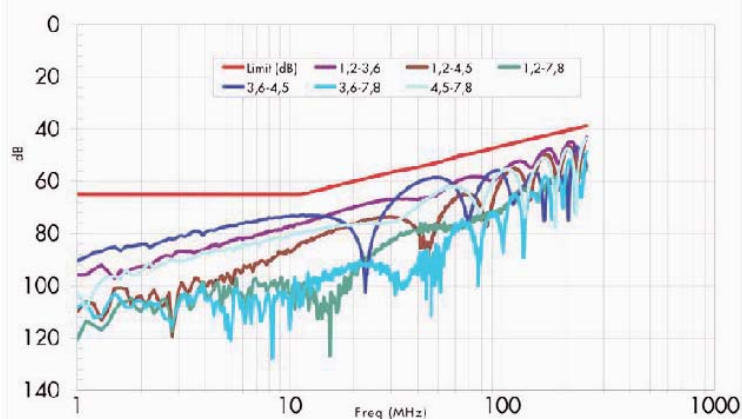
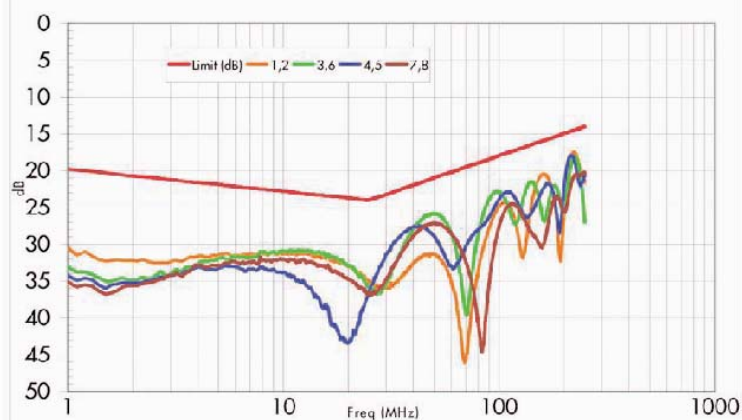
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3 ft. Category 6 Patch Cord Worst Case (in -dB)				
Frequency (MHz)	NEXT LIMIT	NEXT	Return Loss LIMIT	Return Loss
1	65.00	94.00	19.80	30.70
4	65.00	85.90	21.60	33.40
8	65.00	78.90	22.50	32.70
10	65.00	77.30	22.80	32.50
16	62.60	74.30	23.40	31.30
20	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

Category 6 Patch Cord - NEXT (Typical)

Category 6 Patch Cord - RETURN LOSS (Typical)

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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

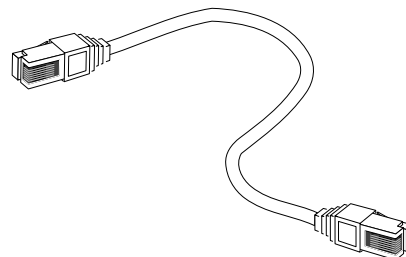
Conductor Size : 24 AWG Stranded Copper
 Temp Range: -10 to 60°C
 Dielectric Material: Polyethylene
 Diameter of
 Dielectric Core: $0.96 \pm 0.05\text{mm}$
 Sheath : LSZH
 O.D: $5.4 \pm 0.2\text{mm}$

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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