

## Features and Benefits

Molex Premise Networks PowerCat 5e 4 Pair U/UTP cable, has been designed to support high speed data transmission systems. This cable is part of the PowerCat System range of products, that have been designed based on the PowerSum principle of crosstalk measurement and testing.

We recommend that the full range of PowerCat products is used in a system to maximise cabling performance, providing extended frequency response and enhanced bandwidth.

- Enhanced performance 4 pair PVC Cable
- Category 5E Compliant
- Colour coded pairs for ease of termination
- 305m easy spool box

## Commercial Standards

EN 50173 2nd Edition, ISO/IEC 11801 2nd Edition, EIA/TIA 568B.2.1

## Technical Information

### Mechanical Characteristics

Conductor Size: 24 AWG Soft Plain Copper  
 Primary Insulation: Solid Polyethylene  
 Nominal O.D.: 0.51mm  
 Sheath: PVC  
 Minimal Wall: ±0.03mm  
 Nominal O.D.: 5mm  
 NVP: 68%  
 Maximum Pulling Force: 100N

### Electrical/Optical Characteristics

D.C. Resistance: 9.8 Ω/km

#### Crosstalk (dB)

@ 1MHz: 65.3  
 @ 16MHz: 47.3  
 @ 100MHz: 35.3

#### Insertion Loss (dB/100m)

@ 1MHz: 2  
 @ 16MHz: 8.2  
 @ 100MHz: 22

#### PS NEXT

@ 1MHz: 62.3  
 @ 16MHz: 44.4  
 @ 100MHz: 32.3

#### ELFEXT

@ 1MHz: 63.8  
 @ 16MHz: 39.7  
 @ 100MHz: 23.8

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@ 1MHz: 63.8  
 @ 16MHz: 39.7  
 @ 100MHz: 23.8

#### PS ELFEXT

@ 1MHz: 60.8  
 @ 16MHz: 36.7  
 @ 100MHz; 20.8

#### Return Loss

@ 1MHz: 20  
 @ 16MHz: 25  
 @ 100MHz: 20.1

#### PSACR

@ 1MHz: 60  
 @ 16MHz: 36  
 @ 100MHz: 10

Propagation Delay: 513ns

Skew: 35ns

Shipping Weight

305m box: 9.12kg



## ORDERING INFORMATION

Order No.	SAP No.	Description
39.A0360	Consult Molex	PowerCat 5e Cable 305m box U/UTP PVC - Grey

## MOLEX PREMISE NETWORKS

**Americas**  
 Tel: 630 969 4550  
 www.molexpn.com

**EMEA**  
 Tel: 44 (0)2392 205800  
 www.molexpn.co.uk

**APAC**  
 Tel: 61 3 9971 7111  
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