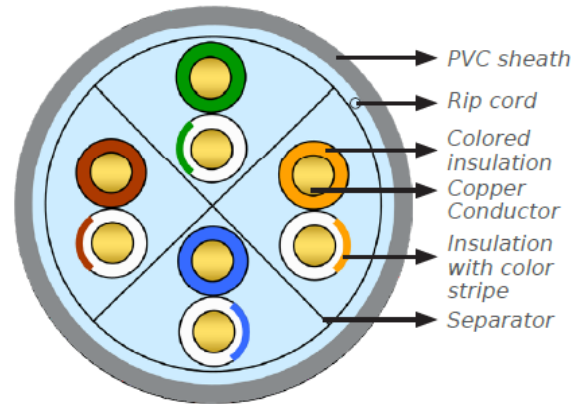


PowerCat 6 UTP PVC LAN Cable >

Molex PowerCat 6 U/UTP Cable consists of 8 Copper Conductors, 2 conductors twisted together to form a pair. 4 Pairs are laid up and separated from one another through a Cross Separator, which improves Crosstalk. Laid up of 4 Pairs is sheathed with PVC.

We recommend that the full range of PowerCat 6 products are used in a system to maximize cabling performance, providing extended frequency response and enhanced bandwidth.



FEATURES AND ADVANTAGES

Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T & 1000 Base-TX) and beyond

Incorporates central cross separator maintaining pair separation during installation to ensure premium performance after installation

CM PVC

ROHS Compliant

Supplied in convenient 305m "Reel in a box"

Cat 6 Permanent Link Compliant.

SPECIFICATIONS

Commercial Standards

ANSI/TIA-568.2-D

ISO/IEC 11801

ROHS Compliant

Construction

Conductor: Solid Bare Copper

Conductor Size: 23 AWG (0.530+/-0.015mm)

Insulation: Polyethylene (HDPE)

Pairs:

2 Insulated conductors twisted together

Sheath: CM Rated PVC

Cable Diameter: 6.0 +/- 0.3mm

Rip Cord: 1 Nos

Mechanical

Bending Radius: 4D Where 'D' is cable diameter

Pulling Strength: ≤ 110 N/mm²

Temperature Range: -20° to +75°C

Electrical

Conductor Resistance: 9.38Ω / 100m @20°C Max

Mutual Capacitance: < 5.6nF/100m Max

Resistance Unbalance: 5% Max

Capacitance Unbalance pair/Ground: 330pF/100m Max

Delay Skew: < 45ns / 100m

Nominal Velocity of Propagation: 69%

www.molex.com/products/copper/cat6/

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PowerCat 6 UTP PVC LAN Cable >

SPECIFICATIONS (CONT.)

FREQ (MHz)	ATT (dB/90m) max.	NEXT (dB/90m) min.	PS.NEXT (dB/90m) min.	ACRF (dB@90m) min.	PS.ACRF (dB@ 90m) min	Return Loss (dB/90m)
1.00	3.0	65.0	62.0	64.2	61.2	19.1
4.00	3.5	64.1	61.8	52.1	49.1	21.0
8.00	5.0	59.4	57.0	46.1	43.1	21.0
10.00	5.5	57.8	55.5	44.2	41.2	21.0
16.00	7.0	54.6	52.2	40.1	37.1	20.0
20.00	7.9	53.1	50.7	38.2	35.2	19.5
25.00	8.9	51.5	49.1	36.2	33.2	19.0
31.25	10.0	50.0	47.5	34.3	31.3	18.5
62.50	14.4	45.1	42.7	28.3	25.3	16.0
100.00	18.6	41.8	39.3	24.2	21.2	14.0
200.00	27.4	36.9	34.3	18.2	15.2	11.0
250.00	31.1	35.3	32.7	16.2	13.2	10.0

Color Code:			
Pair #1		Blue-White with Blue	
Pair #2		Orange-White with Orange	
Pair #3		Green-White with Green	
Pair #4		Brown-White with Brown	

ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00077-YL	181740301	CBL C6 U/UTP 4PR 23AWG CM PVC 305M YELLOW
CAA-00077-BL	181740302	CBL C6 U/UTP 4PR 23AWG CM PVC 305M BLUE
CAA-00077-GR	181740303	CBL C6 U/UTP 4PR 23AWG CM PVC 305M GREEN
CAA-00077-RD	181740304	CBL C6 U/UTP 4PR 23AWG CM PVC 305M RED
CAA-00077-GY	181740305	CBL C6 U/UTP 4PR 23AWG CM PVC 305M GRAY

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