molex®

PowerCat 6 C6 Cable U/UTP LSZH

Features and Benefits

Molex Premise Networks PowerCat 6 (C6) 4 Pair U/UTP cable has been designed to support high speed data transmission systems. The cable is part of the PowerCat 6 range of products that are designed to comply with the Category 6 specification.

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

- Enhanced performance 4 pair LSZH cable
- Category 6 compliant
- Colour coded for ease of termination
- 305m reel in a box & 500m reel

Technical Information

Mechanical

Conductor Size :	23 AWG
Primary Insulation :	Solid Polyethylene
Nominal O.D.:	1.02mm
Sheath Type:	LSZH 332.1
Minimal Wall:	0.55mm
Nominal O.D:	±0.5mm
NVP:	68%

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

Fire Propagation Test: UL 1581 VW1, IEC 60332.1, EN0256-2-1

Electrical

D.C. Resistance :	95 ohm/km		
Crosstalk (dB)	@	1MHz	74.3
	@	16MHz	56.2
	@	100MHz	44.3
	@	250MHz	38.3
Insertion Loss: (dB/100m)	@	1MHz	2.0
	@	16MHz	7.6
	@	100MHz	19.8
	@	250MHz	32.8
PS NEXT:	@	1MHz	72.3
	@	16MHz	34.2
	@	100MHz	42.3
	@	250MHz	36.3
ELFEXT:	@	1MHz	67.8
	@	16MHz	43.7
	@	100MHz	27.8
	@	250MHz	19.8
Return Loss:	@	1MHz	20
	@	16MHz	25
	@	100MHz	20.1
	@	250MHz	17.3
ACR:	@	1MHz	72.3
	@	16MHz	48.6
	@	100MHz	24.5
	@	250MHz	5.5
Propagation Delay:	537ns@100MHz		
Skew:	<45ns/100m		
Shipping Weight	500m reel	24kg	
	305m reel in a box	15kg	
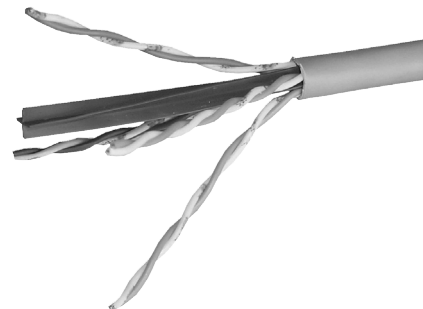
Order No.	Description
CAA-00305	PowerCat 6 C6 Cable 305m reel in a box U/UTP LSZH
CAA-00306	PowerCat 6 C6 Cable 500m reel U/UTP LSZH