

WIREFATH

BULK WIRE

SP-CAT6A-PL-1000-XX

U/UTP. 23AWG Solid Bare Copper, CAT6A, CMR, 550Mhz, Rip Cord

Features

- Unshielded twisted pair, solid copper conductors
- High density polyethylene insulation
- Sweep frequency up to 550Mhz
- Wooden spool drum
- CMP flame retardant PVC jacket

Application

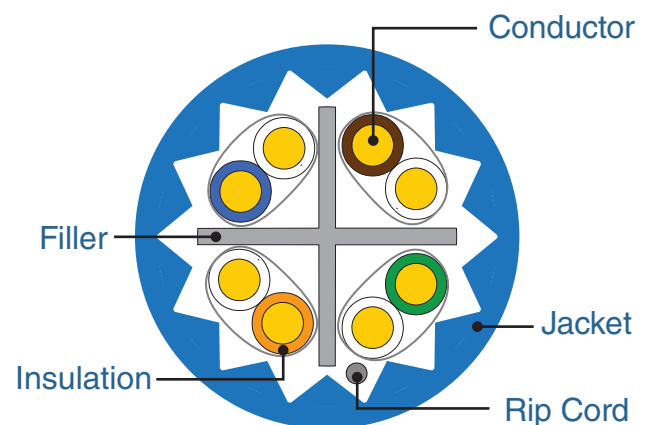
- Structure cabling for horizontal and backbone cable
- Audio and video application via analog and digital data transmission
- IEEE 802.3an 10GBASE-T, and legacy transmission speeds
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)/ IEEE 802.3bt (PoE++)
- HDBaseT Certified

Flame Test

- UL 1666 (CMP)

Applicable Standards

- Electrical Transmission
 - ANSI/TIA-568.2-D
 - ISO/IEC 11801 (Edition 2.2)
 - IEC 61156-5 (Edition 2.1)
- Materials and Construction
 - UL 444
 - CSA 22.2 No.214
- EU Directive 2011/65/EU (RoHS2)
- EU Directive 2006/95/EC (LVD)
- CE compliance date: 2010.01.01



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Material and Construction		
Conductor	23AWG solid bare copper	
Insulation	Material	FEP
	Thickness	0.22 mm
	Diameter	1.03 mm
	Colors	Blue/White-Blue
		Orange/White-Orange
		Green/White-Green
		Brown/White-Brown
Unaged Elongation	Min. 200%	
Unaged Tensile Strength	Min. 1.754 Kgf/mm ²	
Filler Material	FRPE	
Jacket	Material	Flame Retardant PVC
	Diameter	7.5 mm
	Thickness	0.65 mm
	Color	Various
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength Min.	1.407 Kgf/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention: 50%
Min. elongation retention: 85%		
Marking	WIREFATH™ BULK WIRE BY SNAPAV CAT6A 23AWG 4PAIR U/UTP SOLID BARE COPPER 550MHz E325177-XX CMP c(UL)us FT6 75C TIA-568.2-D RoHS DDMMYY 0000/1000 FT	

Note: DDMMYY = date code

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Physical & Electrical Characteristics				
Dielectric Strength of Insulation		2500 V DC / 2 seconds		
Insulation Resistance		Test Min. 5000 MΩ/m		
Conductor Resistance		Max. 9.38 Ω/100m at 20°C		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	1~100MHz	100Ω ± 15%		
	101~500MHz	100Ω ± 22%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB), Max.	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	1.9*	65.0*	62.0*
	10 MHz	5.5*	57.8*	55.5*
	100 MHz	18.0*	41.8*	39.3*
	200 MHz	26.1*	36.9*	34.3*
	250 MHz	29.5*	35.3*	32.7*
	300 MHz	32.7*	34.0*	31.4*
	400 MHz	38.4*	29.9*	27.1*
	500 MHz	43.8*	26.7*	23.8*
<p>The asterisked (*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the below formula.</p> $ \begin{array}{l} 1 \leq f < 300 \\ 300 \leq f \leq 500 \end{array} \left \begin{array}{l} -20 \log \left(10^{-\frac{(44.3-15 \log(f/100))}{20}} + 10^{-\frac{(54-20 \log(f/100))}{20}} \right) \\ 34 - 33.13 \log(f/300) \end{array} \right. $				