WIREPATH

BULK WIRE

SP-CAT6A-PS-1000-XX

U/FTP. 23AWG Solid Bare Copper, CAT6A, CMP Rated, 600Mhz

Features

- Solid annealed bare copper conductors
- U/FTP 100% Aluminum Mylar Shielding
- Wooden drum spool
- Sweep frequency up to 600Mhz
- High density polyethylene insulation
- CMP flame retardant PVC jacket

Application

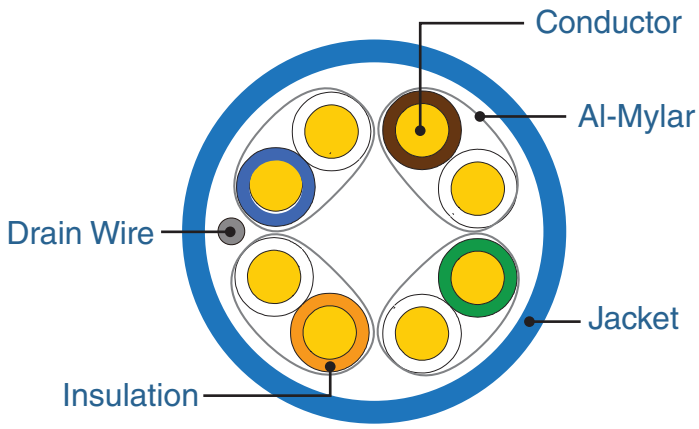
- Structure cabling for horizontal and backbone cable
- Audio and video application via analog and digital data transmission
- IEEE 802.3an 10GBASE-T, and legacy transmission speeds
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)/ IEEE 802.3bt (PoE++)
- HDBaseT Certified
- Environments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

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



Material and Construction		
Conductor	Bare Copper / 23AWG	
Insulation	Material	FEP
	Thickness	0.39 mm
	Diameter	1.37 mm
	Colors	Blue/White
		Orange/White
		Green/White
		Brown/White
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 0.8466 Kgf/mm²
Screen	Aluminum-Mylar	Individual foil and without overall braid screened.
Drain Wire	Material	Tinned copper
Jacket	Material	Flame Retardant PVC
	Diameter	7.3 mm
	Thickness	0.5 mm
	Color	Various
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength Min.	1.407 Kgf/mm²
	Aging at 100°C for 168Hrs	Min. elongation retention: 50%
		Min. elongation retention: 85%
Marking	WIREPATH™ BULK WIRE BY SNAPAV CAT6A SHIELDED 23AWG 4PAIR U/FTP SOLID BARE COPPER 600MHz E325177-Y CMP c(UL)us FT6 75C TIA-568.2-D RoHS DDMMYY 0000/1000 FT	

Note: DDMMYY = date code

Physical & Electrical Characteristics					
Dielectric Strength of Insulation		1500 V DC or 1050 V ac / 2 seconds			
Insulation Resistance		Test Min. 5000 MΩ/m			
Conductor Resistance		Max. 9.38 Ω/100m at 20°C			
Capacitance Unbalance		Max. 330 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*
		600 MHz	48.7*	24.0*	21.0*

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.

$$\begin{array}{r|l} 1 \le f < 300 & -20\log\left(10^{\frac{-(44.3-15\log(f/100))}{20}} + 10^{\frac{-(54-20\log(f/100))}{20}}\right) \\ 300 \le f \le 500 & 34 - 33.13\log(f/300) \end{array}$$