

WIREFATH

BULK WIRE

SP-CAT6A-SH-1000-XX

U/FTP. 23AWG Solid Bare Copper, CAT6A, CMR, 600Mhz, Rip Cord

Features

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

Application

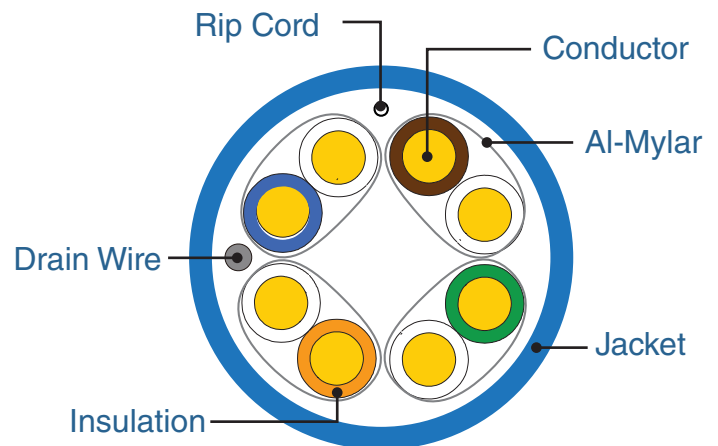
- Structure cabling for horizontal and backbone cable
- Audio and video application via analog and digital data transmission
- IEEE 802.3an 10GBASE-T, and legacy transmission speeds
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)/ IEEE 802.3bt (PoE++)
- HDBaseT Certified
- Environments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

Flame Test

- UL 1666 (CMR)

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	Bare Copper / 23AWG	
Insulation	Material	PE
	Thickness	0.385 mm
	Diameter	1.32 mm
	Colors	Blue/White
		Orange/White
		Green/White
		Brown/White
Unaged Elongation	Min. 100%	
Unaged Tensile Strength	Min. 0.816 Kgf/mm ²	
Screen	Aluminum-Mylar	Individual foil and without overall braid screened.
Drain Wire	Material	Stranded Tinned copper
Jacket	Material	Flame Retardant PVC
	Diameter	7.0 mm
	Thickness	0.45 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 SHIELDED 23AWG 4PAIR U/FTP SOLID BARE COPPER 600MHz E325177-XX CMR c(UL)us FT4 75C TIA-568.2-D RoHS DDMMYY 0000/1000 FT	

Note: DDMMYY = date code

Physical & Electrical Characteristics				
Dielectric Strength of Insulation		1200 V DC or 850 V ac / 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*
	600 MHz	48.7*	24.0*	21.0*
<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. $				