

CAT.6A Armored Cables Series

Technical Data Sheet CableMAX Model No. **CM-1002XXARMBSTK**

Length	Black 24AWG	Black 28AWG
3ft.	CM-100753ARMBSTK	CM-100254ARMBSTK
5ft.	CM-100755ARMBSTK	CM-100256ARMBSTK
7ft.	CM-100757ARMBSTK	CM-100258ARMBSTK
10ft.	CM-100758ARMBSTK	CM-100261ARMBSTK
25ft.	CM-100761ARMBSTK	CM-100268ARMBSTK
50ft.	CM-100763ARMBSTK	CM-100267ARMBSTK
65ft.	CM-100766ARMBSTK	CM-100269ARMBSTK

Specifications

** Information listed represents all cables within this series*

Conductor	Material / Size	Bare Copper / 26AWG	
Insulation	Material	HDPE	
	Thickness	Nominal: 0.21 mm	
	Diameter	Nominal: 0.91 mm	
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown	
	Unaged Elongation	Min. 300%	
	Unaged Tensile Strength	Min. 1.683 Kgf/mm ²	
Screen	Material	Aluminum-Mylar Tape	
Drain Wire	Material	Tinned Copper	
Jacket	Material	Flame Retardant PVC	
	Thickness	Nominal: 0.52 mm	
	Diameter	Nominal: 5.6 mm	
	Color	Assorted Upon Request	
	Unaged Elongation	Min. 100%	
	Unaged Tensile Strength	Min. 1.407 Kgf/mm ²	
	Aging at 100°C for 168Hrs		Min. Elongation Retention: 50%
			Min. Tensile Strength Retention: 75%

Applications

1000BASE-T Gigabit Ethernet
10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
550MHz Broadband Video

100 VG — AnyLAN (IEEE802.12), 155/622 Mbps ATM
Voice, T1, ISDN

Electrical Performance

Dielectric Strength of Insulation		2500 V dc / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ·Km		
Conductor Resistance		Max. 9.38 Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedence	772kHz	102Ω ± 15%		
	1~125MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	-	65*	62*
	4 MHz	6.4*	56*	53*
	8 MHz	8.9*	51*	48*
	10 MHz	9.9*	50*	47*
	16 MHz	12.3*	47*	44*
	20 MHz	13.8*	45*	42*
	25 MHz	16.0*	44*	41*
	31.25 MHz	17.1*	42*	39*
	62.5 MHz	25.6*	38*	35*
	100 MHz	33.0*	35*	32*
	125 MHz	37.4*	34*	31*

The asterisked (*) value are for information only. The minimum Next coupling loss for anypair combination at room temperature is to be greater than the value determined using the formula: $NEXT(f\text{ MHz}) \geq NEXT(0.772) - 15\text{LOG}_{10}(f\text{ MHz}/0.772)\text{dB}$

Configuration

orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown

