



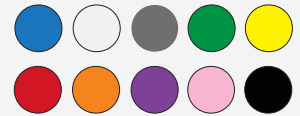
# Cat6A 23AWG CMR U/FTP Shielded

23AWG • 4 Twisted Pairs • CMR  
U/FTP • 750MHz • Solid Copper



## Lengths Available

- 1000ft



## Key Features

- Bandwidth tested up to 750 MHz
- Suitable for 1 Gigabit and 10 Gigabit Ethernet up to 328 ft
- In compliance with ANSI/TIA 568.2-D
- RoHS-3 Compliant
- Easily identified color striped pairs
- Supports Power over Ethernet: PoE/PoE+/PoE++ (IEEE 802.3af/at/bt) 4PPoE up to 90W
- Sequential footage markings every 2ft

## Technical Data

Insulation	FOAM-PE
Average Thickness (mm)	0.27
Min Point Thickness (mm)	0.24
<b>Conductor Insulation Dia. (±0.02mm)</b>	<b>1.1</b>
Twisted Pair Dia. (±0.02mm)	2.2
Ripcord	Nylon
Polyethylene and Aluminum foil Tape	Present
Drain	Present
Shielding	U/FTP

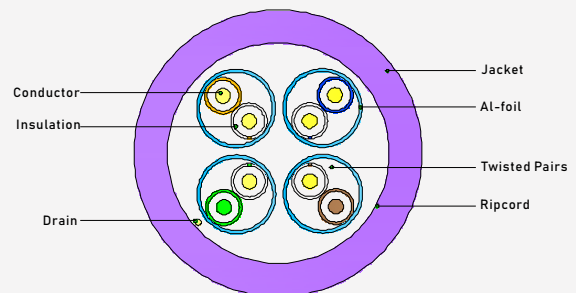
Conductor	Solid Bare Copper
Size	23AWG
Conductor Dia. (±0.05mm)	0.55

## Color of Pairs

Pair 1	Blue- White/Blue
Pair 2	Orange- White/Orange
Pair 3	Green- White/Green
Pair 4	Brown- White/Brown

## Cable Jacket

	PVC
Average Thickness (mm)	0.55
Min. Point Thickness (mm)	0.50
<b>Outer Diameter (±0.2mm)</b>	<b>6.50</b>



## Standards Reference

UL-444 /  
cETLus

ANSI/TIA  
568-2.D

ISO/IEC  
11801

## Print Legend

ACONKAWA CAT6A U/FTP 23AWG 4PRS CMR 750MHZ VERIFIED TO ANSI/TIA 568.2-D xxxFT



# Cat6A 23AWG CMR U/FTP Shielded

23AWG • 4 Twisted Pairs • CMR U/FTP • 750MHz • Solid Copper



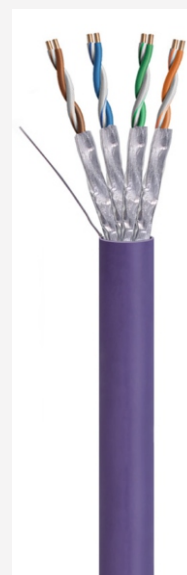
## Lengths Available

• 1000ft



## Electrical Characteristics

PoE Certification	PoE/PoE+/PoE++ 4PPoE
Maximum PoE Wattage	90W
PoE Application Compatibility	802.3af/at/bt Type 4
TIA 568-2.D Cat6 Permanent Link +PoE	CERTIFIED
Maximum Application Speed @ 295ft	10GBASE-T
Nominal Velocity of Propagation (NVP)	72
Maximum Operating Voltage	300V
1.0 - 750MHz Impedance ( $\Omega$ )	100 $\pm$ 25
Maximum Operating Frequency	750MHz
1.0 - 750MHz Delay Skew (ns/100m)	$\leq$ 45
Pair-to-Ground Capacitance Unbalance (pF/km)	$\leq$ 3300
Max. Conductor DC Resistance 20°C ( $\Omega$ /km)	85



## Mechanical & Environmental Operating Parameters

Test Object	Jacket	Aging Condition ( $^{\circ}$ C x hrs)	100 x 168
Test Material	PVC	After Tensile Strength (Mpa)	$\geq$ 85% of unaged
Before- Tensile Strength (Mpa)	$\geq$ 13.8	Aging Condition - Elongation (%)	$\geq$ 50% of unaged
Aging- Elongation (%)	$\geq$ 100	Cold Bend ( $-20 \pm 2^{\circ}$ C x 4hrs)	No Crack
Min. Bend Radius	2.5cm/1.0in	Operating & Storage Temp.	$-40^{\circ}$ C to $75^{\circ}$ C   $-40^{\circ}$ F to $167^{\circ}$ F
Max. Installation Tension	110N/25lb-ft	Installation Temp.	$-20^{\circ}$ C to $75^{\circ}$ C   $-4^{\circ}$ F to $167^{\circ}$ F