



Cat6 23AWG CMR F/UTP Shielded

23AWG • 4 Twisted Pairs • CMR F/UTP • 550MHz • Solid Copper



Lengths Available

• 1000ft



Key Features

- Bandwidth tested up to 550 MHz
- Suitable for 1 Gigabit and 5 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	PE
Average Thickness (mm)	0.26
Min Point Thickness (mm)	0.23
Conductor Insulation Dia. (±0.02mm)	1.08
Twisted Pair Dia. (±0.02mm)	2.16
Ripcord	Nylon
Spline	Present
Polyethylene and Aluminum foil Tape	Present
Drain	Present
Shielding	F/UTP

Conductor	Solid Bare Copper
Size	23AWG
Conductor Dia. (±0.05mm)	0.56

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

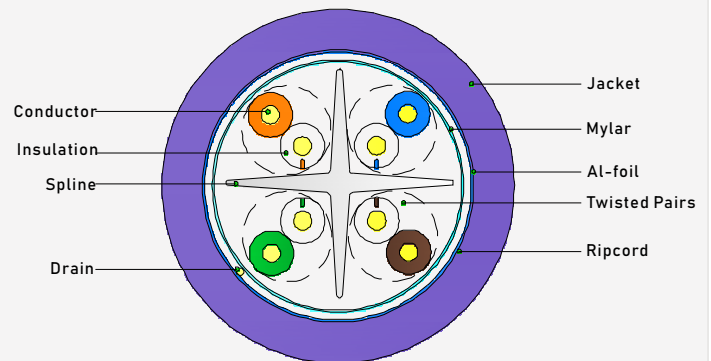
	PVC
Average Thickness (mm)	0.60
Min. Point Thickness (mm)	0.55
Outer Diameter (±0.2mm)	6.50

Standards Reference

UL-444 /
cETLus

ANSI/TIA
568-2.D

ISO/IEC
11801



Print Legend

ACONKAWA CAT6 FTP 23AWG 4PRS CMR 550MHZ VERIFIED TO ANSI/TIA 568.2-D xxxxFT



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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	5GBASE-T
Nominal Velocity of Propagation (NVP)	68.2
Maximum Operating Voltage	300V
1.0 - 550MHz Impedance (Ω)	100 \pm 15
Maximum Operating Frequency	550MHz
1.0 - 550MHz Delay Skew (ns/100m)	\leq 45
Pair-to-Ground Capacitance Unbalance (pF/km)	\leq 3300
Max. Conductor DC Resistance 20°C (Ω /km)	72.2



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° C to 75° C -40° F to 167° F
Max. Installation Tension	110N/25lb-ft	Installation Temp.	-20° C to 75° C -4° F to 167° F