



# 23AWG CAT6A F/FTP SERIES

TMT Global cat6a 23awg 4 twisted pair F-FTP Network Cable 305m are Manufactured Tested and Complied with IEC 60332-1-2 EN 50173-1:2011 ISO/IEC11801:2011(Ed. 2.2) ANSI/TIA/EIA-568.2-D IEC61935-2:2010(Ed.3.0) EN 50173-2:2007 including Amendment A1:2010 Requirements for Patch Cord Assemblies and Provide High Performance levels for structured cabling systems.

## General Specification:

4 Pairs UnShielded Twisted Pair (FFTP) Cable

Gold Plated: 30U"

Color Code: Aqua/Black/Blue/green/Grey/Orange/Red/Violet/White/Yellow r custom color

Length : 0.12/0.15/0.50/1/2/3/5/8/10/15/20/25/30/40/50/70/100/meter r custom Length

Contact blade: Phosphor Bronze

Insulation Material: HD-PE-PVC-LSZH

Jacket Material: PVC UL94V-0

## APPLICATION

10BASE-T, 100BASE-TX Fast Ethernet,

1000BASE-T (IEEE802.3

100VG-AnyLAN (IEEE802.12)

550 MHz Broadband Video

Voice, T1, ISDN

155/ 622 Mbps ATM

Power over Ethernet (POE)

## PHYSICAL AND MECHANICAL PROPERTIES

Conductor Resistance:  $\leq 5\Omega - \leq 20\Omega$

Insulation Resistance:  $\geq 10M\Omega$

Characteristic Impedance: 100 — 6 Ohm @ 1-250MHz -1-500 MHz

Contact Resistance: 20 m Ohm max

Resistance Unbalance: 2% max

Dielectric strength: 1000 volts/1 minute min rms

Cable to Plug Tensile Strength: 9 Kgf (90N) min

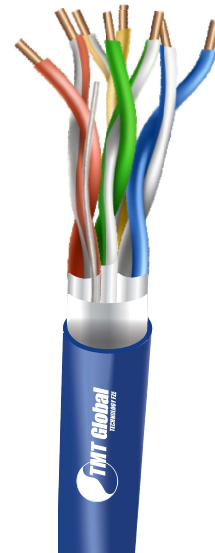
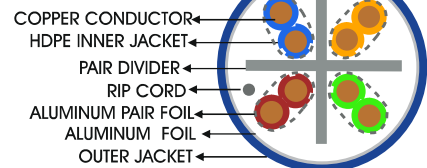
Durability: 750

Temperature Operating Range: -25°C to 70°C

Country Of Origin: Made in UAE

By Fahad Cables Industry FZE

## CAT6A F/FTP SERIES



### Middle East Office

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PHYSICAL AND MECHANICAL PROPERTIES	
Basic Conductor	TMT copper
Conductor Size	23AWG
Insulation :	HDPE
Number of insulated conductors :	8, twisted in 4 pairs.
Color Code of Pairs :	Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown
Individual pair shield	Laminated aluminum foil (foil face outward) providing 100% coverage.
Drain wire	Solid, 24AWG, 0.51 mm, tin-coated annealed copper
Overall shield	Polyester-aluminum tape (foil face inward) providing 100% coverage.
Outer Jacket :	LSZH Halogen free flame retardant
Outer Jacket Color :	Black, Blue, Gray, Green, Orange, Red, Violet, White, Yellow, Aqua
Standard Surface Marking :	Includes TMTGLOBAL P/N, cable description, Meter mark and Batch Number
Pulling force :	110 N max
Short Term Bend Radius :	8xOD mm
Temperature operating range :	-20 to +60C

ELECTRICAL SPECIFICATIONS			
Characteristic Impedance	100±6 Ohm @ 1-500 MHz	Dielectric strength	1500 Volts/1 minute min rms
Loop Resistance	25	Velocity of Propagation (NVP)	67-69%
Resistance unbalance	2% max.	Propagation Delay Skew	534 + 36/vf. nS/100m max @ 1-500 MHz
Mutual Capacitance	5.6 nF/100m Max. @ 1 KHz	Insulation Resistance	45 nS/100m max @ 1-500 MHz
Cap. Unbalance (wire to ground)	1500 pF/Km max. @ 1 KHz.	Coupling attenuation	85 dB min @ 30-100 MHz 85-20Log(f/100) @100-500 MHz
Voltage rating	72 Vdc max.	Transfer Impedance	50 mOhm/m max @ 1 MHz. 100 mOhm/m max @ 10 MHz. 200 mOhm/m max @ 30 MHz. 1000 mOhm/m max @ 100 MHz.

Ordering Information		
Model No	Item Code	Description
TMT-4075	6A436MLB	23AWG 4PAIR CAT6A F/FTP CABLE BLUE LSZH 305M

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