

# 23AWG CAT6 F/FTP SERIES

TMT Global cat6 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

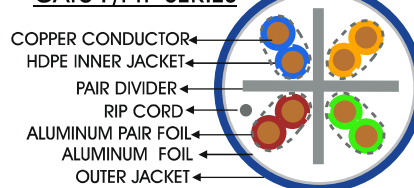
Durability: 750

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

Country Of Origin: Made in UAE

By Fahad Cables Industry FZE

## CAT6 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 or PVC compound
Standard Jacket Color	Black, Blue, Gray, Green, Orange, Red, Violet, White, Yellow, Aqua
Standard Surface Marking	Includes TMT Global P/N, cable description, Meter mark and Model Number
Pulling force	100 N max.
Short Term Bend Radius	8xOD (mm)
Storage Temperature	-20 to +80C
Temperature operating range	-20 to +60C
Flame Test	IEC 60332-1

ELECTRICAL SPECIFICATIONS			
Characteristic Impedance	100±6 Ohm @ 1-250 MHz	Dielectric strength	1500 Volts/1 minute min rms
DC Resistance	93 Ohm/Km max.	Velocity of Propagation (NVP)	74-78%
Resistance unbalance	2% max.	Propagation Delay	534 + 36/vf. nS/100m max @ 1-300 MHz
Mutual Capacitance	5.6 nF/100m Max. @ 1 KHz	Propagation Delay Skew	45 nS/100m max @ 1-300 MHz
Cap. Unbalance (wire to ground)	1500 pF/m max. @ 1 KHz.	Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Voltage rating	72 Vdc max.	Coupling attenuation	85 dB min @ 30-100 MHz 85-20Log(f/100) @100-250 MHz
Transfer Impedance	10 mOhm/m max @ 1-10 MHz 30 mOhm/m max @ 30 MHz		

Ordering Information		
Model No	Item Code	Description
TMT-4040	6X436MLB	23AWG 4PAIR CAT6 F/FTP CABLE LSZH 305M

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