



PRODUCT & CONSTRUCTION

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CAT6 F/UTP 23 AWG 4-PAIR LSZH NETWORK CABLE – 305 M

CAT6 | F/UTP | 250 MHz | Indoor fixed installation

TMT Global CAT6 F/UTP network cable with 23 AWG Bare Copper conductors, HDPE insulation and an LSZH jacket. Supplied in a 305 m pack for indoor fixed installation.

PHYSICAL AND MECHANICAL PROPERTIES

PROPERTY	DECLARED VALUE
Basic conductor	Bare Copper
Conductor size	23 AWG
Insulation	HDPE
Insulated conductors	8 conductors, twisted in 4 pairs
Pair colour code	Blue/White-Blue; Orange/White-Orange; Green/White-Green; Brown/White-Brown
Outer jacket	Low-smoke, zero-halogen (LSZH) compound
Cable construction	Overall Coverage: Aluminium foil shield
Standard surface marking	TMT Global P/N, cable description, metre mark and model number
Maximum pulling force	110 N
Minimum short-term bend radius	8 x OD
Storage temperature	-20 to +80 °C
Operating temperature	-20 to +60 °C
Installation temperature	0 to +50 °C
Flame propagation	IEC 60332-1-2

KEY DATA	APPLICATIONS	FLAME TEST
23 AWG 4 PAIRS LSZH 305 m	Structured cabling LAN infrastructure CCTV AV and intercom	IEC 60332-1-2



ELECTRICAL SPECIFICATIONS

PARAMETER	DECLARED VALUE	PARAMETER	DECLARED VALUE
Characteristic impedance	100 ± 6 Ω @ 1–250 MHz	Dielectric strength	1,500 V / 1 minute min. RMS
DC resistance	93 Ω/km max.	Velocity of propagation (NVP)	67–69%
Resistance unbalance	2% max.	Propagation delay	534 + 36/√f ns/100 m max. @ 1–250 MHz
Mutual capacitance	5.6 nF/100 m max. @ 1 kHz	Propagation delay skew	35 ns/100 m max.
Capacitance unbalance	1,600 pF/m max. @ 1 kHz	Insulation resistance	5,000 MΩ·km min. @ 500 V DC
Voltage rating	72 V DC max.	Coupling attenuation	40 dB min. @ 30–100 MHz; 40–20 log(f/100) @ 100–250 MHz

STANDARDS & DECLARED CLASSIFICATION

REFERENCE	APPLICATION
ANSI/TIA-568.2-D (manufacturer-declared reference)	Manufacturer-declared cabling reference
EN 50288-5-1	CAT6 F/UTP cable reference
IEC 61156-5:2020	Balanced communication cable
ISO/IEC 11801-1 (Class E)	Generic cabling classification
IEC 60332-1-2	Single insulated wire/cable flame propagation

ORDERING INFORMATION

ITEM CODE	JACKET	COLOUR	PACK
6X235BLB	LSZH	Blue	305 m
6X235BLG	LSZH	Grey	305 m
6X235BLK	LSZH	Black	305 m
6X235BLN	LSZH	Green	305 m
6X235BLO	LSZH	Orange	305 m
6X235BLR	LSZH	Red	305 m
6X235BLV	LSZH	Violet	305 m
6X235BLW	LSZH	White	305 m
6X235BLY	LSZH	Yellow	305 m
6X235BLA	LSZH	Aqua	305 m

PACKAGING: 305 m | COLOURS: 10 listed models