



PRODUCT & CONSTRUCTION

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## CAT5E F/UTP 24 AWG 4-PAIR LSZH NETWORK CABLE – 305 M

CAT5e | F/UTP | 100 MHz | Indoor fixed installation

TMT Global CAT5e F/UTP network cable with 24 AWG Bare Copper conductors, HDPE insulation and a 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                 | 24 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                                    |
| Standard jacket colours        | 10 approved colours                                                        |
| 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    |
|---------------------------------|------------------------------------------------------------------|---------------|
| 24 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 @ 1–100 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. @ 1–100 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) @ 100–100 MHz |

## STANDARDS & DECLARED CLASSIFICATION

| REFERENCE                                          | APPLICATION                                   |
|----------------------------------------------------|-----------------------------------------------|
| ANSI/TIA-568.2-D (manufacturer-declared reference) | Manufacturer-declared cabling reference       |
| EN 50288-2-1                                       | CAT5e F/UTP cable reference                   |
| IEC 61156-5:2020                                   | Balanced communication cable                  |
| ISO/IEC 11801-1 (Class D)                          | Generic cabling classification                |
| IEC 60332-1-2                                      | Single insulated wire/cable flame propagation |

## ORDERING INFORMATION

| ITEM CODE | JACKET | COLOUR | PACK  |
|-----------|--------|--------|-------|
| 5X248BLB  | LSZH   | Blue   | 305 m |
| 5X248BLG  | LSZH   | Grey   | 305 m |
| 5X248BLK  | LSZH   | Black  | 305 m |
| 5X248BLN  | LSZH   | Green  | 305 m |
| 5X248BLO  | LSZH   | Orange | 305 m |
| 5X248BLR  | LSZH   | Red    | 305 m |
| 5X248BLV  | LSZH   | Violet | 305 m |
| 5X248BLW  | LSZH   | White  | 305 m |
| 5X248BLY  | LSZH   | Yellow | 305 m |
| 5X248BLA  | LSZH   | Aqua   | 305 m |

PACKAGING: 305 m | COLOURS: 10 listed models