

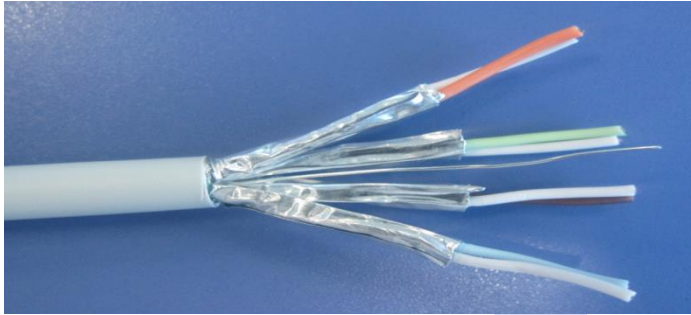
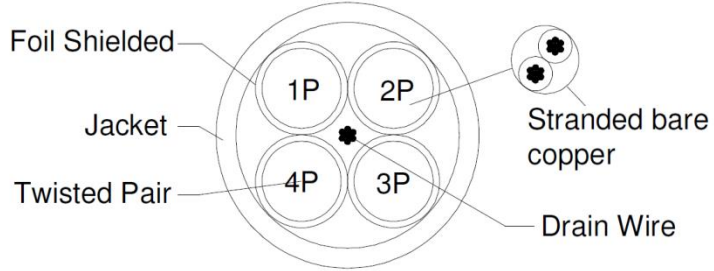
# Elite Cables

## Product Part Number

- TSM2604S03XX

## Product Description

- U/FTP, 26AWG stranded bare copper, CAT.6A, CM
- Overall metal foil screen with drain wire

|   |                     |   |          |
|---|---------------------|---|----------|
|  |                     |  |          |
|   |                     | High Frequency Performance  | Category |
|   | Standard Compliance | IEC 61156-6, EN 50288-4-2, ANSI/TIA568C.2, ISO/IEC11801                             |          |
| Flame Retardant Standard  | Standard Compliance | UL444 CM  |          |
| Environmental Compliance  | RoHS                |   |          |
| Conductor   | Material            | Bare Copper   |          |
|   | Structure           | 26AWG, 7 x 0.152mm  |          |
| Insulation  | Material            | Foam PE   |          |
|   | Structure           | 1.01mm  |          |
| Foil Screen   | Material            | Aluminum/PET  |          |

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|  |   |   |                        |
|--|---|---|------------------------|
|  | <b>Thickness</b>  | 35/15 $\mu$ m   |                        |
| <b>Jacket</b>                          | <b>Material</b>   | PVC CM · CMR  |                        |
|  | <b>Thickness</b>  | 0.55mm  |                        |
|  | <b>OD</b>   | 6.0 $\pm$ 0.2mm   |                        |
| <b>Pulling Tension</b>                 | Max. 50N  |   |                        |
| <b>Bending Radius (without load)</b>   | Min. 8 x Cable Diameter   |   |                        |
| <b>Temperature Range</b>               | <b>Installation Temperature</b>   | 0 to 50°C   |                        |
|  | <b>Storage Temperature</b>  | -20 to 70°C (Under static condiction)                         |                        |
|  | <b>Operation Temperature</b>  | -20 to 60°C (Under static condiction)                         |                        |
| <b>Conductor Resistance @20°C</b>      | Max. 14.5 Ohms/100m   | <b>Resistance Unbalance @20°C</b>                             | Within a pair: 5% Max. |
| <b>Dielectric Strength</b>             | 300V AC or 850V AC for 2secs  |   | Between pairs: 4% Max. |
| <b>Mutual Capacitance</b>              | 5.6nF/100m @1kHz  | <b>Insulation Resistance @20°C, Test Voltage 100V-500V DC</b> | Min. 5000 Mohms. m     |
| <b>Coupling Attenuation (&lt;1GHz)</b> | Min. 55dB@100MHz  | <b>Max. Capacitance Unbalance (Pair to Ground @20°C)</b>      | 330 pF/km @1kHz        |
| <b>Mean Characteristic Impedance</b>   | 100 Ohms $\pm$ 5 Ohms @100MHz   |   |                        |
| <b>Max. Delay Skew @20°C</b>           | 45 nsec/100m @ 100MHz   | <b>Nominal Velocity Propagation</b>                           | 80%                    |
| <b>Marking</b>                         | ELITE 10G CAT6A PATCH CABLE FOR 10 GIGABIT SYSTEM E224805 C(UL)US CM 75°C U/FTP 4PR 26AWG<br>CSA (FT4) ETL VERIFIED TO TIA 568-C.2 XXXXFT |   |                        |

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## Transmission Characteristics

| FREQ  | Attenuation    | RL                | NEXT      | PS-NEXT   | ACRF      | PSACRF    | TCL       | Prop. Delay |
|-------|----------------|-------------------|-----------|-----------|-----------|-----------|-----------|-------------|
| MHz   | (max. dB/100m) | (min. dB at 20°C) | (min. dB) | (min. dB) | (min. dB) | (min. dB) | (min. dB) | (max. ns)   |
| 1*    | 3.1            | 20.0              | 75.0      | 72.3      | 68.0      | 65.0      | 40        | 570         |
| 4*    | 5.7            | 23.0              | 66.3      | 63.3      | 56.0      | 53.0      | 40        | 552         |
| 8     | 8.0            | 24.5              | 61.8      | 58.8      | 49.9      | 46.9      | 40        | 547         |
| 10    | 8.9            | 25.0              | 60.3      | 57.3      | 48.0      | 45.0      | 40        | 545         |
| 16    | 11.2           | 25.0              | 57.2      | 54.2      | 43.9      | 40.9      | 38        | 543         |
| 20    | 12.6           | 25.0              | 55.8      | 52.8      | 42.0      | 39.0      | 37        | 542         |
| 25    | 14.1           | 24.2              | 54.3      | 51.3      | 40.0      | 37.0      | 36        | 541         |
| 31.25 | 15.8           | 23.3              | 52.9      | 49.9      | 38.1      | 35.1      | 35        | 540         |
| 62.5  | 22.5           | 20.7              | 48.4      | 45.4      | 32.1      | 29.1      | 32        | 539         |
| 100   | 28.7           | 19.0              | 45.3      | 42.3      | 28.0      | 25.0      | 30        | 538         |
| 200   | 41.4           | 16.4              | 40.8      | 37.8      | 22.0      | 19.0      | 27        | 537         |
| 250   | 46.6           | 15.6              | 39.3      | 36.3      | 20.0      | 17.0      | 26        | 536         |
| 300   | 51.4           | 14.9              | 38.1      | 35.1      | 18.5      | 15.5      | 25.2      | 536         |
| 400   | 60.1           | 13.8              | 36.3      | 33.3      | 16.0      | 13.0      | 24        | 536         |
| 500   | 67.9           | 13.0              | 34.8      | 31.8      | 14.0      | 11.0      | 23        | 536         |

(1) All performance based on 100 meters at 20°C. (2) The asterisked (\*) frequency performance value are assumed to be met by design.

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