



SPECIFICATION CONTROL DRAWING

TECC0026C5

Issue 2
5-Sep-17
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COMMUNICATION CABLE - 4 X 22AWG CAT5E M/SN/ST/M BLUE

The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of the referenced specifications. This document takes precedence over documents referenced herein.

PRODUCT DETAILS

| DESCRIPTION | | PHYSICAL CHARACTERISTICS | | | |
|---|---------------------------------|--------------------------|---|--------------------------------|--------------------|
| Application: | 100BASE-TX & 1000BASE-T | Structure | Construction | 4 X 22AWG | |
| Rated temperature: | -40°C to +90°C | | Number of Pairs | 2 | |
| Hazard Rating | EN 45545-2 HL3 | Conductor | AWG | 22 AWG | |
| Flammability Rating: | EN 60332-1-2, EN 50305 Cl 9.1.1 | | Conductor material | Stranded Tinned Copper | |
| Smoke Emission | EN 61034-2 | | Conductor dimension(mm) | 19/0.16 mm | |
| Toxicity: | EN 50305 Cl. 9.2 | Insulation | Insulation material | Thermoplastic Polymer | |
| Stranded Tinned Copper Conductor | | | Insulation Colours | White - Yellow - Blue - Orange | |
| Colour-Coded Insulation | | Inner Sheath | Material | Thermoplastic Polymer | |
| LSFRZH Jacket | | | Colour | Black | |
| Packaging: Per Customer Request | | | Outer Diameter (mm) | 3.90mm | |
| <p><u>CROSS SECTION</u></p> | | Shield | Individual shield & material I | Al. Poly Tape | |
| | | | Coverage | ≥ 100% | |
| | | | Individual shield & material II | Tinned copper braid | |
| | | | Coverage | ≥ 85% | |
| | | | Outer Sheath | Material | LSZH EM104 |
| | | | | Colour | TE Blue - RAL 5015 |
| | | Thickness | | 0.90 mm | |
| | | Diameter | | 6.50 ± 0.20 mm | |
| | | Outer Jacket Rip cord | N/A | | |
| OTHER CHARACTERISTICS | | | | | |
| | | Finished Cable | Finished Cable Weight | 65 kg/km | |
| | | | Minimum bending radius | 70 mm | |
| ELECTRICAL CHARACTERISTICS | | | | | |
| | | | Electrical resistance of conductor @ 20° | ≤ 60 Ω/km | |
| | | | Electrical resistance of shield @ 20° | ≤ 120 Ω/km | |
| | | | Insulation resistance @ 20° | ≥ 500 MΩxkm | |
| | | | Nominal velocity of propagation | ≥ 66% | |
| | | | Operating voltage | 300 V rms | |
| | | | Test Voltage for 1 minute (Conductor/Conductor) | 700 V rms | |
| | | | Test Voltage for 1 minute (Conductor/Shield) | 700 V rms | |
| | | | Mutual capacitance (Conductor/Conductor) | ≤ 46 pF/m | |
| | | | Unbalance Capacitance (single conductor/shield) | ≤ 3.3 pF/m | |
| | | | Characteristic Impedance Zo 1-100 MHz | 100 ± 15 Ω | |
| JACKET MARK | | | | | |
| "TE CONNECTIVITY - TECC0026C5 - 4X22AWG CAT 5E - 100 OHM LOT. xxxx" | | | | | |

| Frequency | ATT | NEXT | RL | ELFEXT |
|-----------|-----------|----------|----------|--------|
| (MHz) | (dB/100m) | (dB Min) | (dB Min) | (dB) |
| 1 | 3.20 | 65.3 | 23.0 | 64 |
| 4 | 6.00 | 56.3 | 24.1 | 52 |
| 10 | 9.50 | 50.3 | 25.0 | 44 |
| 16 | 12.10 | 47.2 | 25.0 | 40 |
| 20 | 13.60 | 45.8 | 25.0 | 38 |
| 31.25 | 17.10 | 42.9 | 23.6 | 34 |
| 62.5 | 24.80 | 38.4 | 21.5 | 28 |
| 100 | 32.00 | 35.3 | 20.1 | 24 |

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