

SPECIFICATION FOR APPROVAL

DOCUMENT : TCL2304T

STYLE : 60°C 300V
COMMUNICATION CABLE

SIZE: S/FTP 23AWG X4P (SOLID)
CAT 7A LSZH

RECOGNIZED: ETL



WONDERFUL HI-TECH CO.,LTD

OFFICE : 72 WU KONG 6TH ROAD,
WU KU IND. DISTRICT
TAIPEI HSIEN, TAIWAN

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TAIWAN, R.O.C.

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All Material According To SS-00259



WONDERFUL HI-TECH CO., LTD

SPECIFICATION

| | | |
|---|--|--|
| STYLE | 60°C 300V COMMUNICATION CABLE | DOCUMENT NO : TCL2304T |
| SIZE | S/FTP 23AWG×4P | ESTABLISHED DATE : May/30/2013 |
| STANDARD : IEC 61156-5, ISO/IEC11801, EN 50288-9-1, 60332-1-2、60754-2、61034-1、61034-2 incl. Amendment 1 | | |
| APPLICATION : LOCAL AREA NETWORK CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK | | |
| CONSTRUCTION : | | |
| CONDUCTOR | SIZE | 23AWG |
| | CONSTRUCTION | SOLID BARE COPPER |
| INSULATION | AVG. THICK. | 0.420 mm |
| | MIN. THICK. | 0.400 mm |
| | DIAMETER | 1.45 ± 0.02 mm |
| | MATERIAL | FOAM SKIN PE |
| | COLOR CODES | 1.BLUE × WHITE 2.ORANGE × WHITE 3.GREEN × WHITE 4.BROWN × WHITE |
| SHIELDED | PAIR STRANDED | 2 CORES STRANDED |
| | SHIELDED | AL-MYLAR TAPE (EACH PAIR) |
| | ASSEMBLY STRANDED | 4 PAIR STRANDED |
| | BRAID CONSTRUCTION | TINNED COPPER |
| | BRAID COVERAGE | 40% Min |
| JACKETED | AVG. THICK. | 0.50 mm |
| | MIN. THICK. | 0.45 mm |
| | DIAMETER | 8.2 ± 0.25 mm |
| | MATERIAL | LSOH |
| | COLOR | ACCORDING TO CUSTOMER'S REQUEST |
| PACKAGING | <input checked="" type="checkbox"/> ACCORDING TO CUSTOMER'S REQUEST | |
| | <input type="checkbox"/> ACCORDING WITH WONDERFUL HI-TECH CO.,LTD STANDARD | |

AK001/210×297/1.0

EDITION : 1.0

MAKER : *H. C. KUO* CONFIRM : *C. Y. Chen*

REVISED DATE :

APPROVAL : *W. J. Wang*

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WONDERFUL HI-TECH CO., LTD

SPECIFICATION

| ELECTRICAL & PHYSICAL PROPERTIES : | | | |
|---|--------|--------------------------------|-------------------------------------|
| ITEM | | 23AWG × 4P | |
| RATING TEMP VOLTAGE | | 60°C 300V | |
| CONDUCTOR RESISTANCE | | 9.50 OHM/100m/20°C MAX. | |
| DIELECTRIC STRENGTH | | AC 1.5 KV/2SEC. | |
| SPARK TEST | | 2.5 KV | |
| INSULATION | UNAGED | TENSILE STRENGTH | 1159 PSI MIN.(8N/mm ²) |
| | | ELONGATION | 100% MIN. |
| | AGED | TENSILE STRENGTH | UNAGED MIN. 70%(100°C×48HRS) |
| | | ELONGATION | UNAGED MIN. 50%(100°C×48HRS) |
| JACKETED | UNAGED | TENSILE STRENGTH | 1306 PSI MIN. (9N/mm ²) |
| | | ELONGATION | 100% MIN. |
| | AGED | TENSILE STRENGTH | UNAGED MIN. 70%(100°C×168HRS) |
| | | ELONGATION | UNAGED MIN. 50%(100°C×168HRS) |
| INSULATION SHRINKBACK | | 5% MAX. (100°C×1HR) | |
| COLD BEND TEST | | -20°C×4HRS NO CRACK | |
| FLAME RETARDANT TEST | | IEC 60332-1-2 | |
| ACID GAS EVOLUTION | | PH ≥ 4.3 | |
| SMOKE GENERATION | | 60% MIN(TRANSMISSION OF LIGHT) | |
| DC RESISTANCE UNBALANCE | | 2% MAX. | |
| PAIR-TO-GROUND CAPACITANCE UNBALANCE | | 160 pF/100m MAX. | |
| PROPAGATION DELAY | | 1000MHz 535.14nS/100m MAX. | |
| DELAY SKEW | | 4~1000MHz 25nS/100m MAX. | |
| MARKING : | | | |
| WONDERFUL S/FTP 23AWG 4PR CAT. 7A LSZH---ETL VERIFIED TO IEC 61156-5 ISO/IEC11801 EN50288-9-1 CAT. 7A MMYX XXXXFT | | | |

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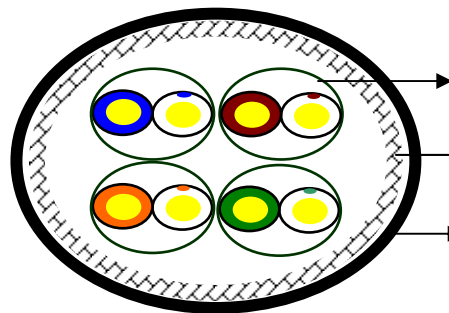


WONDERFUL HI-TECH CO., LTD

SPECIFICATION

Electrical Performance

| Frequency (MHz) | IL | NEXT | PS.NEXT | ACR | PS.ACR | ACRF | PS.ACRF | RL |
|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | Max. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m |
| 4 | 3.75 | 78.00 | 75.00 | 74.26 | 71.26 | 78.00 | 75.00 | 23.01 |
| 8 | 5.22 | 78.00 | 75.00 | 72.78 | 69.78 | 77.24 | 74.24 | 24.52 |
| 10 | 5.82 | 78.00 | 75.00 | 72.18 | 69.18 | 75.30 | 72.30 | 25.00 |
| 16 | 7.34 | 78.00 | 75.00 | 70.66 | 67.66 | 71.22 | 68.22 | 25.00 |
| 20 | 8.21 | 78.00 | 75.00 | 69.79 | 66.79 | 69.28 | 66.28 | 25.00 |
| 25 | 9.18 | 78.00 | 75.00 | 68.83 | 65.83 | 67.34 | 64.34 | 24.32 |
| 31.25 | 10.26 | 78.00 | 75.00 | 67.74 | 64.74 | 65.40 | 62.40 | 23.64 |
| 62.5 | 14.57 | 78.00 | 75.00 | 63.43 | 60.43 | 59.38 | 56.38 | 21.54 |
| 100 | 18.53 | 75.40 | 72.40 | 56.88 | 53.88 | 55.30 | 52.30 | 20.11 |
| 150 | 22.82 | 72.76 | 69.76 | 49.94 | 46.94 | 51.78 | 48.78 | 18.87 |
| 200 | 26.47 | 70.88 | 67.88 | 44.41 | 41.41 | 49.28 | 46.28 | 18.00 |
| 250 | 29.73 | 69.43 | 66.43 | 39.70 | 36.70 | 47.34 | 44.34 | 17.32 |
| 300 | 32.69 | 68.24 | 65.24 | 35.55 | 32.55 | 45.76 | 42.76 | 17.30 |
| 350 | 35.44 | 67.24 | 64.24 | 31.80 | 28.80 | 44.42 | 41.42 | 17.30 |
| 400 | 38.01 | 66.37 | 63.37 | 28.36 | 25.36 | 43.26 | 40.26 | 17.30 |
| 450 | 40.45 | 65.60 | 62.60 | 25.16 | 22.16 | 42.24 | 39.24 | 17.30 |
| 500 | 42.76 | 64.92 | 61.92 | 22.16 | 19.16 | 41.32 | 38.32 | 17.30 |
| 550 | 44.97 | 64.29 | 61.29 | 19.32 | 16.32 | 40.49 | 37.49 | 17.30 |
| 600 | 47.10 | 63.73 | 60.73 | 16.63 | 13.63 | 39.74 | 36.74 | 17.30 |
| 700 | 51.13 | 62.72 | 59.72 | 11.59 | 8.59 | 38.40 | 35.40 | 16.63 |
| 800 | 54.92 | 61.85 | 58.85 | 6.93 | 3.93 | 37.24 | 34.24 | 16.05 |
| 900 | 58.51 | 61.09 | 58.09 | 2.58 | N.A. | 36.22 | 33.22 | 15.54 |
| 1000 | 61.93 | 60.40 | 57.40 | N.A. | N.A. | 35.30 | 32.30 | 15.08 |



AL-MYLAR

BRAID

LSOH

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