

LiHCH CABLE – LSZH SHIELDED (TC BRAID) CONTROL CABLE

Low Smoke Zero Halogen – EMI Protected – European Standard Datasheet

LiHch Cable LSZH



✓ LSZH ✓ EMI Shielded ✓ Flexible ✓ Industrial Control

APPLICATION

For signal and control cable in industrial automation, electronics, and process control units.  
Suitable for environments requiring EMI protection and low smoke zero halogen performance.

KEY FEATURES

- LSZH sheath – low smoke & halogen-free
- Tinned copper braid shield for EMI protection
- Flexible Class 5 conductor
- Flame retardant & low toxicity
- Suitable for public buildings & industry

CABLE CONSTRUCTION

Conductor: Class 5 Oxygen-Free Copper  
Insulation: PE  
Core Identification: Colored cores  
Screen: Tinned Copper Wire Braid (TC)  
Outer Sheath: LSZH

STANDARDS

VDE 0812 | DIN 47100 | IEC60332-1 | IEC60754  
| RoHS

PRODUCT LIST

| Part No. | Size (mm <sup>2</sup> ) | Cores | Conductor | Insulation (mm) | Sheath (mm) | Screen     | OD (mm) | Max DCR |
|----------|-------------------------|-------|-----------|-----------------|-------------|------------|---------|---------|
| 05220214 | 0.14                    | 2     | 12/0.12   | 0.3             | 0.6         | TC Braided | 4       | 148     |
| 05220314 | 0.14                    | 3     | 12/0.12   | 0.3             | 0.6         | TC Braided | 4.2     | 148     |
| 05220414 | 0.14                    | 4     | 12/0.12   | 0.3             | 0.6         | TC Braided | 4.5     | 148     |
| 0522051  | 0.14                    | 5     | 12/0.12   | 0.3             | 0.6         | TC Braided | 4.8     | 148     |

## CASITEK | LIHCH LSZH SHIELDED CONTROL CABLE

|         |      |    |         |     |     |            |     |      |  |
|---------|------|----|---------|-----|-----|------------|-----|------|--|
| 4       |      |    |         |     |     |            |     |      |  |
| 0522071 | 0.14 | 7  | 12/0.12 | 0.3 | 0.6 | TC Braided | 5.1 | 148  |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522081 | 0.14 | 8  | 12/0.12 | 0.3 | 0.6 | TC Braided | 5.4 | 148  |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522101 | 0.14 | 10 | 12/0.12 | 0.3 | 0.6 | TC Braided | 6.2 | 148  |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522121 | 0.14 | 12 | 12/0.12 | 0.3 | 0.7 | TC Braided | 6.6 | 148  |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522141 | 0.14 | 14 | 12/0.12 | 0.3 | 0.7 | TC Braided | 6.9 | 148  |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522022 | 0.25 | 2  | 14/0.15 | 0.3 | 0.6 | TC Braided | 4.4 | 79.9 |  |
| 5       |      |    |         |     |     |            |     |      |  |
| 0522032 | 0.25 | 3  | 14/0.15 | 0.3 | 0.6 | TC Braided | 4.7 | 79.9 |  |
| 5       |      |    |         |     |     |            |     |      |  |
| 0522042 | 0.25 | 4  | 14/0.15 | 0.3 | 0.6 | TC Braided | 5   | 79.9 |  |
| 5       |      |    |         |     |     |            |     |      |  |
| 0522052 | 0.25 | 5  | 14/0.15 | 0.3 | 0.6 | TC Braided | 5.3 | 79.9 |  |
| 5       |      |    |         |     |     |            |     |      |  |
| 0522072 | 0.25 | 7  | 14/0.15 | 0.3 | 0.6 | TC Braided | 5.7 | 79.9 |  |
| 5       |      |    |         |     |     |            |     |      |  |
| 0522082 | 0.25 | 8  | 14/0.15 | 0.3 | 0.6 | TC Braided | 6.1 | 79.9 |  |
| 5       |      |    |         |     |     |            |     |      |  |
| 0522102 | 0.25 | 10 | 14/0.15 | 0.3 | 0.7 | TC Braided | 7.2 | 79.9 |  |
| 5       |      |    |         |     |     |            |     |      |  |
| 0522122 | 0.25 | 12 | 14/0.15 | 0.3 | 0.7 | TC Braided | 7.5 | 79.9 |  |
| 5       |      |    |         |     |     |            |     |      |  |
| 0522142 | 0.25 | 14 | 14/0.15 | 0.3 | 0.7 | TC Braided | 7.8 | 79.9 |  |
| 5       |      |    |         |     |     |            |     |      |  |
| 0522023 | 0.34 | 2  | 20/0.15 | 0.3 | 0.6 | TC Braided | 4.6 | 57   |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522033 | 0.34 | 3  | 20/0.15 | 0.3 | 0.6 | TC Braided | 4.9 | 57   |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522043 | 0.34 | 4  | 20/0.15 | 0.3 | 0.6 | TC Braided | 5.2 | 57   |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522053 | 0.34 | 5  | 20/0.15 | 0.3 | 0.6 | TC Braided | 5.6 | 57   |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522073 | 0.34 | 7  | 20/0.15 | 0.3 | 0.6 | TC Braided | 6   | 57   |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522083 | 0.34 | 8  | 20/0.15 | 0.3 | 0.6 | TC Braided | 6.4 | 57   |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522103 | 0.34 | 10 | 20/0.15 | 0.3 | 0.7 | TC Braided | 7.6 | 57   |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522123 | 0.34 | 12 | 20/0.15 | 0.3 | 0.7 | TC Braided | 7.9 | 57   |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522143 | 0.34 | 14 | 20/0.15 | 0.3 | 0.7 | TC Braided | 8.2 | 57   |  |
| 4       |      |    |         |     |     |            |     |      |  |
| 0522025 | 0.5  | 2  | 16/0.20 | 0.3 | 0.6 | TC Braided | 4.9 | 39   |  |

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|          |      |    |         |     |     |            |      |      |  |
|----------|------|----|---------|-----|-----|------------|------|------|--|
| 0        |      |    |         |     |     |            |      |      |  |
| 05220350 | 0.5  | 3  | 16/0.20 | 0.3 | 0.6 | TC Braided | 5.2  | 39   |  |
| 05220450 | 0.5  | 4  | 16/0.20 | 0.3 | 0.6 | TC Braided | 5.6  | 39   |  |
| 05220550 | 0.5  | 5  | 16/0.20 | 0.3 | 0.6 | TC Braided | 6    | 39   |  |
| 05220750 | 0.5  | 7  | 16/0.20 | 0.3 | 0.6 | TC Braided | 6.5  | 39   |  |
| 05220850 | 0.5  | 8  | 16/0.20 | 0.3 | 0.7 | TC Braided | 7.1  | 39   |  |
| 05221050 | 0.5  | 10 | 16/0.20 | 0.3 | 0.7 | TC Braided | 8.2  | 39   |  |
| 05221250 | 0.5  | 12 | 16/0.20 | 0.3 | 0.7 | TC Braided | 8.7  | 39   |  |
| 05221450 | 0.5  | 14 | 16/0.20 | 0.3 | 0.7 | TC Braided | 9.1  | 39   |  |
| 05220275 | 0.75 | 2  | 24/0.20 | 0.4 | 0.6 | TC Braided | 5.8  | 26   |  |
| 05220375 | 0.75 | 3  | 24/0.20 | 0.4 | 0.6 | TC Braided | 6.2  | 26   |  |
| 05220475 | 0.75 | 4  | 24/0.20 | 0.4 | 0.6 | TC Braided | 6.7  | 26   |  |
| 05220575 | 0.75 | 5  | 24/0.20 | 0.4 | 0.7 | TC Braided | 7.2  | 26   |  |
| 05220775 | 0.75 | 7  | 24/0.20 | 0.4 | 0.7 | TC Braided | 7.8  | 26   |  |
| 05220875 | 0.75 | 8  | 24/0.20 | 0.4 | 0.7 | TC Braided | 8.8  | 26   |  |
| 05221075 | 0.75 | 10 | 24/0.20 | 0.4 | 0.8 | TC Braided | 10.4 | 26   |  |
| 05221275 | 0.75 | 12 | 24/0.20 | 0.4 | 0.8 | TC Braided | 10.8 | 26   |  |
| 05221475 | 0.75 | 14 | 24/0.20 | 0.4 | 0.9 | TC Braided | 11.5 | 26   |  |
| 05220210 | 1    | 2  | 32/0.20 | 0.5 | 0.6 | TC Braided | 6.4  | 19.5 |  |
| 05220310 | 1    | 3  | 32/0.20 | 0.5 | 0.6 | TC Braided | 6.9  | 19.5 |  |
| 05220410 | 1    | 4  | 32/0.20 | 0.5 | 0.7 | TC Braided | 7.6  | 19.5 |  |
| 05220510 | 1    | 5  | 32/0.20 | 0.5 | 0.7 | TC Braided | 8.2  | 19.5 |  |
| 05220710 | 1    | 7  | 32/0.20 | 0.5 | 0.9 | TC Braided | 9.5  | 19.5 |  |
| 05220215 | 1.5  | 2  | 30/0.25 | 0.5 | 0.6 | TC Braided | 7    | 13.3 |  |
| 05220315 | 1.5  | 3  | 30/0.25 | 0.5 | 0.7 | TC Braided | 7.7  | 13.3 |  |

|         |     |   |         |     |     |            |      |      |  |
|---------|-----|---|---------|-----|-----|------------|------|------|--|
| 5       |     |   |         |     |     |            |      |      |  |
| 0522041 | 1.5 | 4 | 30/0.25 | 0.5 | 0.7 | TC Braided | 8.3  | 13.3 |  |
| 5       |     |   |         |     |     |            |      |      |  |
| 0522051 | 1.5 | 5 | 30/0.25 | 0.5 | 0.8 | TC Braided | 9.4  | 13.3 |  |
| 5       |     |   |         |     |     |            |      |      |  |
| 0522071 | 1.5 | 7 | 30/0.25 | 0.5 | 1   | TC Braided | 10.6 | 13.3 |  |
| 5       |     |   |         |     |     |            |      |      |  |

PERFORMANCE TABLE

|                   |            |                 |
|-------------------|------------|-----------------|
| Test Item         | Standard   | Performance     |
| Rated Voltage     | IEC        | 250/250V        |
| Test Voltage      | IEC        | 1200V           |
| Temperature Range | IEC        | -15°C ~ +70°C   |
| Flame Retardant   | IEC60332-1 | Pass            |
| Halogen Free      | IEC60754   | Pass            |
| EMI Shielding     | IEC        | High Efficiency |