# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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#### Ratings

Voltage: 300 V Operating temperature: -20° to 80 °C

#### Conductor

Gauge: 18 AWG, 0.82 mm<sup>2</sup> Material: tinned copper strands Strand size: Ø 0.16 mm Strand count: 41 Max resistance at 20 °C: 23.2  $\Omega$ /km

#### Insulator

Material: PVC Color: white Outer diameter:  $2.05 \pm 0.10$  mm Min resistance at 20 °C:  $10 M\Omega/km$ 

#### Shield

Type: spiral Material: tinned copper strands Strand size: Ø 0.16 mm Strand count:  $41 \pm 2$ 

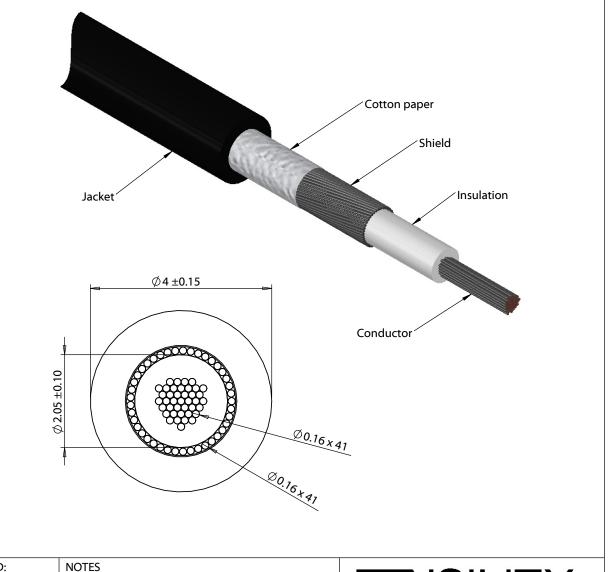
#### Outer jacket

Material: TPU, 80 °C Type: extruded, non-integral Color: black Diameter: 4.0 ±0.20 mm

### Wire marking: E339579 AWM STYLE 10846 80°C 300V VW-1 - - C N AWM I/II A 80°C 300V FT1 TENSILITY

#### Tests

Voltage test: 300 V Spark test: 3.0 kV Tensile strength: 1.05 kgf/mm<sup>2</sup> After aging at 113  $\pm 2$  °C for 7 days: Minimum tensile strength 70 % original Minimum elongation 65 % original Heat shock: 121  $\pm 1$  °C /1 hour, no observed degradation Deformation: 121  $\pm 1$  °C /1 hour,  $\leq 50$  % Cold bend: -10  $\pm 1$  °C /1 hour, no observed cracking Flammability: FT1, VW-1 Dielectric test: 1500 V ac for 1 minute without breakdown



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| REVISION | DATE      | DESCRIPTION                         | PREPARED:  | NOTES   |  |   |                      |           |              |  |
|----------|-----------|-------------------------------------|--|---|--|---|----------------------|-----------|--------------|--|
| А        | 9/2/2015  | Initial release                     | GL 2016.03.11<br>10:12:50<br>-08'00'   | RoHS and REACH compliant<br>Function test: no open, no short circuit, no                |  | 20802 Sockeye Place #130<br>Bend, OR 97701 USA<br>tel 541.323.3228 fax 541.323.4202<br>800 877.670.7118 www.tensility.com |                      |           |              |  |
| A1       | 9/14/2015 | Upgraded fire rating to VW-1/ FT1   | VERIFIED:<br>PS Use of the second secon |   |  |   |                      |           |              |  |
| A2       | 3/10/2016 | Updated operating temperature range | DIMENSIONS ARE IN  |   |  |   |                      |           |              |  |
|          |           |                                     |  | DESCRIPTION:<br>Wire, 1C TS, 18 AWG, UL10846, 300V, 80C, 4.0 mm,<br>shielded, VW-1, TPU |  | SIZE  | PART NUMBER 30-00558 |           |              |  |
|          |           |                                     | TOLERANCES:<br>X: <u>+</u> 0.5 mm  |   |  | A   |                      |           |              |  |
|          |           |                                     | X.X: ± 0.3 mm<br>X.XX: ± 0.05 mm   |   |  | SCALE   | : 12:1               |           | SHEET 1 OF 1 |  |
|          |           | 4                                   |  |   |  |   |                      | · · · · · |              |  |

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