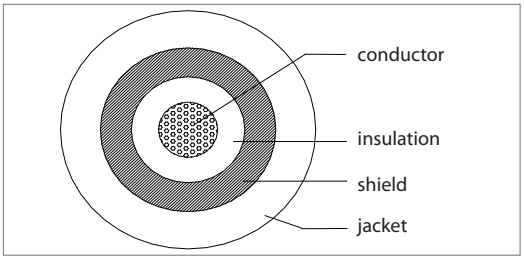
**Wire cross section:**




marking:
E339579 AWM STYLE 1185 18AWG 80°C 300V
VW-1 --- C AWM I A 80°C 300V FT1 TENSILITY

**Cable specifications:**

conductors

| | |
|---|---|
| gauge (AWG) | 18 |
| material | bare copper |
| cord size (strands) | 41 x 0.16 |
| spiral shield | 41 x 0.16, tinned copper |

jacket

| | |
|---|---|
| material | 80°C, 60P, PVC |
| color | black |
| diameter (mm) | 3.4 ± 0.10 |

insulation

| | |
|---|---|
| material | 80°C, 50P, |
| color | white |
| diameter (mm) | 2.05 ± 0.10 |

electrical properties

| | |
|---|---|
| rated voltage (V) | 300 |
| rated temperature (°C) | 80 |
| insulator resistance (Ohm/Kft) | 2.5 |
| operating temperature (°C) | -20 ~ +80 |
| resistance at 20° C (Ohm/Km) max | 23.2 |
| spark test (Kv) | 3.0/4.0 |

physical characteristics

| | | |
|---|---|---|
| material | | insulation/jacket PVC |
| unaged | tensile strength (kgf/mm$^2$ min) | 1.05 |
| | elongation (% min) | 100 |
| aging test | condition | 113 °C/168 h |
| | elongation (% unaged min) | 65 |
| | tensile strength (% unaged min) | 70 |
| cold bend (-10 ± 1° C, 1 hour) | | no observed cracking |
| heat shock (121 ± 1° C, 1 hour) | | no distortion |
| deformation (121± 1 °C x 1 hour) | | ≤50% |
| flammability rating | | VW-1 |

**tolerance X: ±0.5 mm .X: ±0.3 mm .XX: ±0.05 mm**
applicable unless otherwise indicated in specification or on drawings

| Initial | Date |
|---|---|

**Revision notes:**

| Rev | Date | Description |
|---|---|---|
| A | October 15, 2010 | initial release |
| A1 | August 13, 2012 | added operating temperature |
| | | |

**Specification Approval**

Spec sign-off verifies that you have reviewed the entire specification, tested a sample of the product, and confirm that it meets your requirements. This specification reflects the part as it will be ordered. Orders will not be processed until the specification pages have been initialed and the approval page has been signed. This specification is confidential and is not to be transmitted without prior approval from Tensility.

Signature _____ Title _____

Name _____ Date _____

Company _____ Branch _____