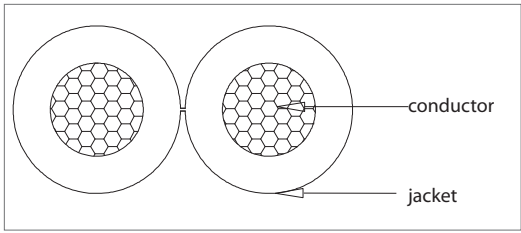# TENSILITY

Wire cross section:

marking:
E339579 🆄🅻 AWM STYLE 2468 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

jacket

material	80°C, 48P, PVC
color	black
diameter (mm)	4.4 ± 0.10

electrical properties

rated voltage (V)	300
rated temperature (°C)	80
rated current (A)	7
insulator resistance (Ohm/Kft)	2.5
operating temperature (°C)	-10 ~ +80
resistance at 20° C (Ohm/Km) max	23.2
spark test (Kv)	3.0/4.0
humidity rating	<75%

physical characteristics

material		insulation
unaged	tensile strength (kgf/mm² 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**

TENSILITY

part number: 30-00007
description: Wire, 2C, 18 AWG, UL2468, 300V, 80C, 4.4 mm, VW-1, PVC, 48P

date: February 19, 2013
rev: A3
page: 2 of 2

Revision notes:

Rev	Date	Description
A	September 27, 2010	initial release
A1	August 13, 2012	added operating temperature
A2	October 29, 2012	added humidity rating
A3	February 19, 2013	added rated current

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 _____