

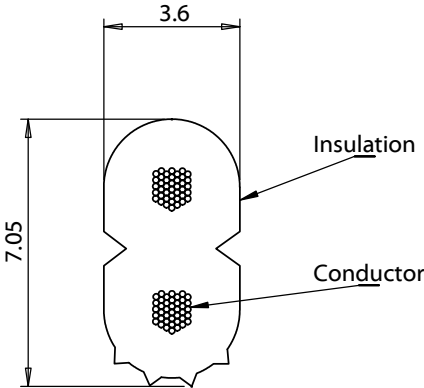
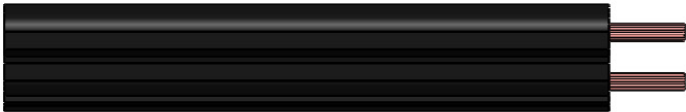
Ratings
Voltage: 300 V
Insulation resistance: $\geq 0.762 \text{ M}\Omega/\text{Km}$ (at 15.6 °C)
Temperature: 105 °C
Flamability: VW-1

Conductor
Size: 18 AWG
Number: 2
Material: bare copper
Stranding: 41/0.16 mm

Outer jacket
Material: PVC
Color: black
Nominal thickness: 1.14 mm
Diameter: 3.6x7.05 mm

Wire marking
(UL) E339575 SPT-2 2X0.824mm2(18AWG) 105C 300V
VW-1 C(UL) SPT-2 2X0.824mm2(18AWG) 105C 300V
VW-1 TENSILITY HLE

Tests
Voltage test: 1500 Vac for 1 min after 4 hours in 20±5 °C water, no breakdown
Spark test: 6000 V for 0.15 seconds without breakdown
Tensile strength of PVC: 1.05 kfg/mm², after aging for 168 hours in 136±3 °C min tensile strength shall be 85% original value and min elongation 65% original value
Heat shock: wound on 12.7 mm mandrel, then 1 hour at 121±3 °C, no cracks in insulation or jacket
Cold bend: -20±1 °C for four hours then 6 turns around 19 mm mandrel without cracks to insulation or jacket
Deformation: < 50% thickness reduction after: 121±3 °C and 300 gf on insulation



REVISION	DATE	DESCRIPTION
A	5/17/2013	Initial release

PREPARED:	NOTES RoHS compliant Function test: no open, no short circuit, no INT
VERIFIED:	
DIMENSIONS ARE IN MILLIMETERS	
TOLERANCES: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	DESCRIPTION: Wire, 2C, 18 AWG, UL SPT-2, 300V, 105C, 7.05 mm, VW-1, PVC

TENSILITY

20802 Sockeye Place #130
Bend, OR 97701 USA
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800 877.670.7118 www.tensility.com

SIZE A	PART NUMBER 30-00246	
SCALE: 5:1	WEIGHT:	SHEET 1 OF 1