

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!



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Ratings

Voltage: 300 V

Operating temperature: -20° to 80 °C

Conductor

Gauge: 20 AWG, 0.52 mm² Material: tinned copper strands Strand size: Ø 0.178 mm

Strand count: 21

Max resistance at 20 °C: 36.7 Ω /km

Insulator

Material: PVC Color: white

Outer diameter: 1.8 ±0.10 mm Min resistance at 20 °C: 10 M Ω /km

Shield

Type: spiral

Material: tinned copper strands

Strand size: Ø 0.12 mm Strand count: 45 ±2

Outer iacket

Material: TPU, 80 °C

Type: extruded, non-integral

Color: white

Diameter: 3.8 ±0.15 mm

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

Tests

Voltage test: 300 V Spark test: 3.0 kV

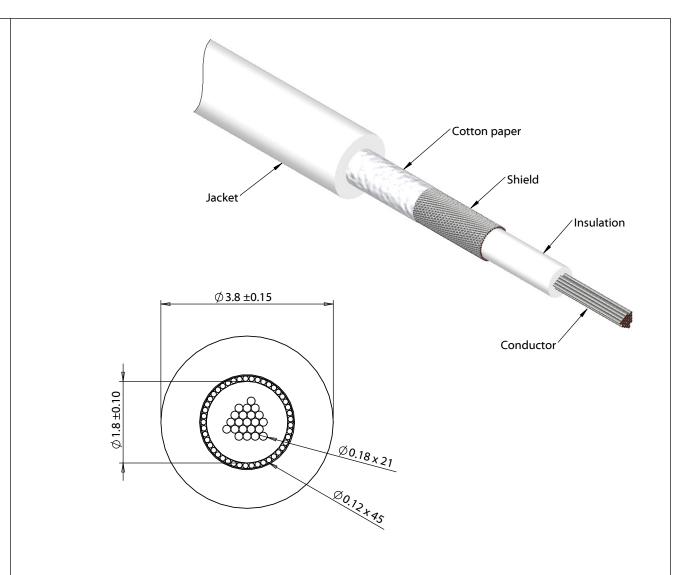
Tensile strength: 1.05 kgf/mm² After aging at 113 ±2 °C for 7 days: Minimum tensile strength 70 % original Minimum elongation 65 % original

Heat shock: 121 ± 1 °C /1 hour, no observed degradation

Deformation: 121 ± 1 °C /1 hour, ≤ 50 % Cold bend: -10 ± 1 °C /1 hour, no observed cracking

Flammability: FT1, VW-1

Dielectric test: 1500 V ac for 1 minute without breakdown



REVISION	DATE	DESCRIPTION	PREPARED: 2016.03.11	NOTES					
Α	9/3/2015	Initial release	GL 10:20:53 -08'00'	RoHS and REACH compliant		TENSILITY			
A1	9/14/2015	Upgraded fire rating to VW-1/FT1	VERIFIED: Digitally signed by PS DiscoverS.o.o.o. email-QA004@tensilly.com, colored by PS DiscoverS.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o	Function test: no open, no short circuit, no intermittent Drawing in third angle projected		20802 Sockeye Place #130 Bend, OR 97701 USA tel 541.323.3228 fax 541.323.4202 800 877.670.7118 www.tensility.com			
A2		Updated operating temperature range	DIMENSIONS ARE IN MILLIMETERS TOLERANCES: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm						
				DESCRIPTION: Wire, 1C TS, 20 AWG, UL10846, 300V, 80C, 3.8 mm, shielded, VW-1, TPU, white		SIZE PART NUMBER A 30-00562			
						SCALE	: 12:1		SHEET 1 OF 1
5		4	3	2				1	