

**Ratings**

Voltage: 60 V  
 Temperature: -40~125 °C

**Conductor**

Conductor count: 1  
 Gauge: 18 AWG 0.82 mm<sup>2</sup>  
 Material: tinned copper strands  
 Strand size:  $\varnothing$  0.235 mm x 19  
 Resistance at 20 °C: 21.8  $\Omega$  /km max

**Insulator**

Material: XLPE  
 Color: gray  
 Diameter:  $\varnothing$  2  $\pm$  0.1  
 Nominal thickness: 0.4 mm

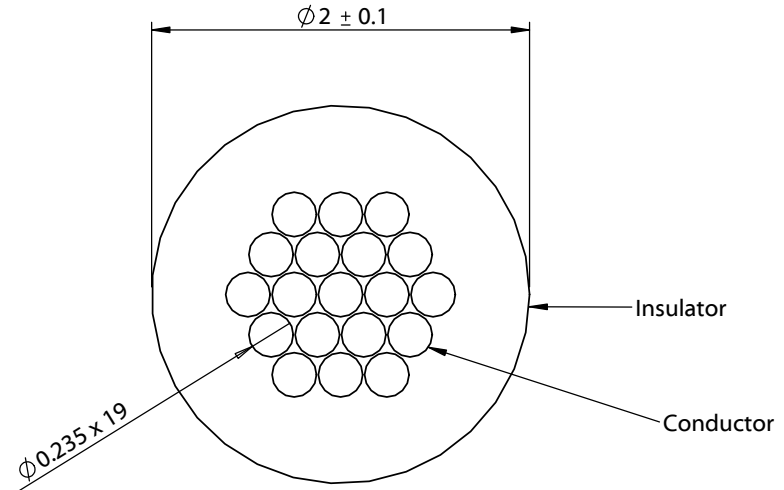
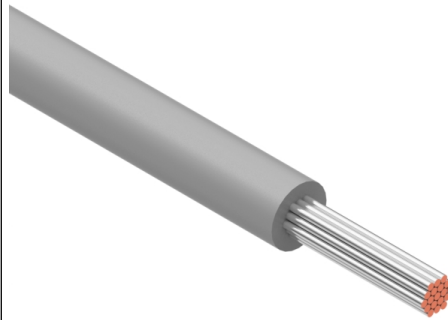
**Wire marking:** TXL AUTOMOTIVE PRIMARY WIRE 18 AWG XLPE  
 125°C SAE J1128 TENSILITY

**Mechanical Tests**

After aging at 155 $\pm$ 3°C for 7 days  
 Minimum tensile strength 10 MPa  
 Minimum elongation 150% original  
 Dielectric test: 1000 Vrms for 1 minute without breakdown  
 Flammability: SAE J1128 Resistance to Flame Propagation  
 Ozone resistance: 192 hrs @ 65°C, 100 pphm, no cracks or splits

**Fluid Compatibility Tests** (Name: fluid, test temp (°C))

Engine oil: ASTM D471 IRM-902, 50 $\pm$ 3  
 Gasoline: ASTM D471 Ref Fuel C, 23 $\pm$ 5  
 Ethanol: 85% ethanol + 15% ASTM D471, Ref Fuel C, 23 $\pm$ 5  
 Diesel fuel: 90% ASTM D471 IRM 903 +10% p-xylene, 23 $\pm$ 5  
 Power steering: ASTM D471 IRM 903, 50 $\pm$ 3  
 Auto trans: Dexron VI SAE J311, 50 $\pm$ 3  
 Engine coolant: 50% dist. water + 50% ethylene glycol, 50 $\pm$ 3  
 Battery acid: H2SO4 spec. gravity = 1.26 $\pm$ 0.005, 23 $\pm$ 5



Revision:	Date:	Description:	Prepared:	Notes: RoHS compliant Halogen free	<h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118          fax 1.541.323.4202 web tensility.com</p>
A	12/10/2021	Initial release	Verified:		
			Dimensions are in millimeters. Tolerances: X: $\pm$ 0.5 mm X.X: $\pm$ 0.3 mm X.XX: $\pm$ 0.05 mm	Description:	Size: Part number:
				Wire, hook-up, TS, 18 AWG, TXL automotive SAE J1128, 60V, 125C, 2.0 mm, XLPE, gray	A 30-02200
				Scale: 25:1	

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