

**Ratings**

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

**Conductor**

Conductor count: 1  
Gauge: 12 AWG 3.3 mm<sup>2</sup>  
Material: bare copper strands  
Strand size: Ø0.47 mm x 19  
Resistance at 20 °C: 5.43 Ω /km max

**Insulator**

Material: XLPE  
Color: black  
Diameter: Ø3.2 ±0.15 mm  
Nominal thickness: 0.46 mm

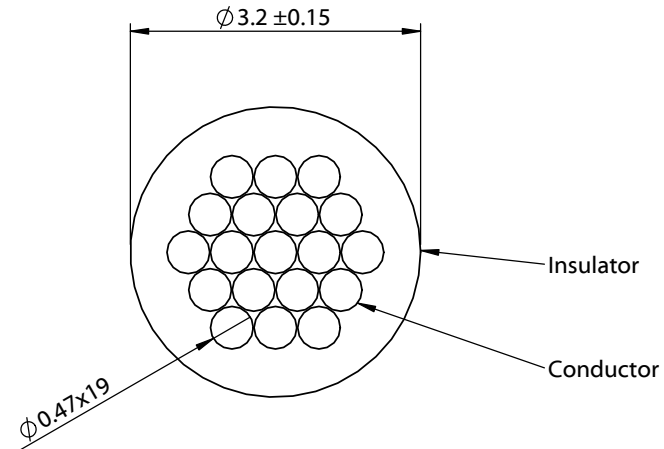
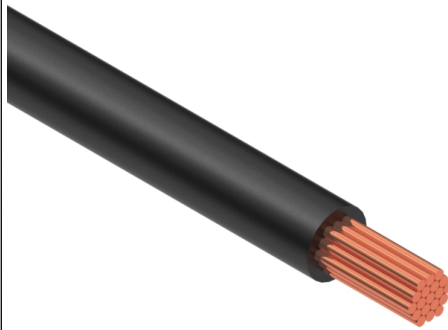
**Wire marking:** TXL AUTOMOTIVE PRIMARY WIRE 12 AWG XLPE 125°C  
SAE J1128 TENSILITY

**Mechanical Tests**

After aging at 155±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±3  
Gasoline: ASTM D471 Ref Fuel C, 23±5  
Ethanol: 85% ethanol + 15% ASTM D471, Ref Fuel C, 23±5  
Diesel fuel: 90% ASTM D471 IRM 903 +10% p-xylene, 23±5  
Power steering: ASTM D471 IRM 903, 50±3  
Auto trans: Dexron VI SAE J311, 50±3  
Engine coolant: 50% dist. water + 50% ethylene glycol, 50±3  
Battery acid: H2SO4 spec. gravity = 1.26±0.005, 23±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: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description:	Size: A	Part number: 30-02163	
				Wire, hook-up, BC, 12 AWG, TXL automotive SAE J1128, 60V, 125C, 3.2 mm, XLPE, black	Scale: 12:1		
							Sheet 1 of 1

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