

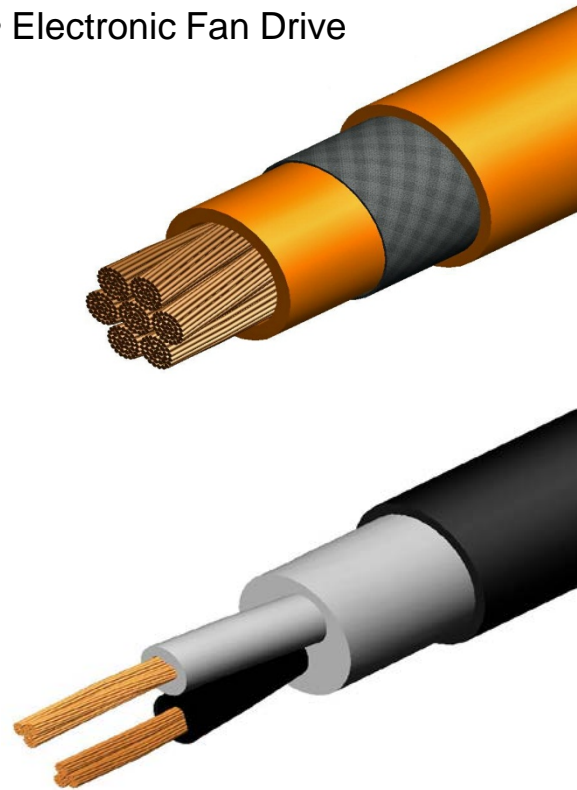
Automotive

Automotive Wire and Cable Products

- Primary Wires:
ISO: *Classes B - H*
JASO: *AEX, AESSX, AVX, AVSSX*
SAE: *TXL, GXL, STX*
- Engine Harness Wire:
AutoRad®
- Transmission Wire:
Silicon & Non-Silicon Blocked
- Sensor Cables:
ABS, Crank Sensor, Transmission
- Fuel Tank Wire
- Active/Passive Sensor Cables
- Hybrid Electric Vehicle Cables
- Air Bag Wire
- Battery Cable
- Shielded and Blocked Wires
- Databus
- Electronic Fan Drive

Jacket & Insulation Materials

Material	Temperature Rating
PUR	(85°C up to 125°C)
XLPU	(85°C up to 150°C)
XLPVC	(100°C up to 115°C)
XLPE	(120°C up to 150°C)
XLPO	(120°C up to 150°C)
XLTPPE	(150°C)
XLFE	(150°C up to 200°C)
XLETFE	(150°C up to 200°C)



Wire Type	Standard	Judd Specification	Temperature Ratings	Conductor Range	Insulation Type	Application
TXL	SAE J1128	JW1427	135°C	0.22mm ² - 8.00mm ²	HFXLPO	Engine Harness
		JW1414	135°C		XLPE: G12	Gas Tank Wire
		JW1214	150°C & 200°C		XLFE: J5, J7 & R5	Transmission Wire
GXL	SAE J1127	JW1335	125°C, 135°C & 150°C	0.22mm ² - 8.00mm ² 13.0mm ² - 103.0mm ²	HFXLPO	Engine Harness
STX		JW1131				Battery Cable
AVSSX	JASO D611	JW1052	105°C	0.30mm ² - 2.00mm ² 0.50mm ² - 8.00mm ²	XLPVC	Passenger Compartment
AVX		JW1198				Battery Cable
AESSX		JW881	125°C	0.30mm ² - 2.00mm ² 0.22mm ² - 8.00mm ²	XLPE	Engine Harness
AEX		JW1151				Battery Cable
Class B	ISO 6722	JW1202	105°C	0.30mm ² - 120.0mm ²	XLPVC	Passenger Compartment
Class C		JW1223	125°C		HFXLPO	Engine Harness
Class D		JW1109	150°C		XLPE	Engine Harness
Class F		JW1355	200°C		XLFE	Transmission Wire
Class H		JW1193	250°C		XLFP	Oxygen Sensor
Type A	SAE/ISO	JW1280	150°C	2mm ² - 120.0mm ²	XLPE/XLPE	High Voltage Shielded Battery Cables
Type B						
Type C						
Type D						
Type E						
Judd Flex		JW1187	200°C		FXLPE/FXLPE	
Type A		JW1314			XLFE/XLFE	
Type B	JW1313	150°C	XLPE	High Voltage Unshielded Battery Cables		
Types A-E						

Engine Harness Wire

Product Characteristics

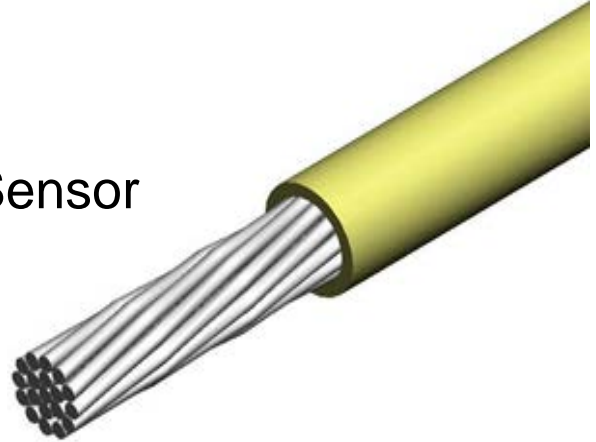
- Halogen-free insulation types
- Deca Bromine-free insulation types
- High abrasion resistant properties
- Excellent chemical resistance
- Multiple conductor stranding options
 - Symmetric or Asymmetric
- -40°C up to 150°C, 3000hr Temperature Rating

Standard	Wire Type	Standard	Judd Spec	Temp Rating	Size	Insulation Type
SAE J1128	TXL	SAE J1128	JW1427	135°C	0.22mm ² Thru 8.00mm ²	HFXLPO
	GXL	SAE J1128	JW1335			HFXLPO
JASO D618	AESSX	JASO D618	JW881	120°C	0.30mm ² Thru 2.00mm ²	XLPE
	AEX	JASO D618	JW1151	120°C	0.30mm ² Thru 8.00mm ²	XLPE
ISO 6722	AutoRad125	ISO 6722	JW1223	125°C	0.22mm ² Thru 6.00mm ²	XLPE
	AutoRad150	ISO 6722	JW1109 (thin wall)	150°C		XLPE
			JW1390 (thick wall)	150°C		XLPE

Fuel Systems Wire

Applications

- Fuel Pump
- Fuel Level Sensor
- Diesel Exhaust Reduction Sensor



Materials

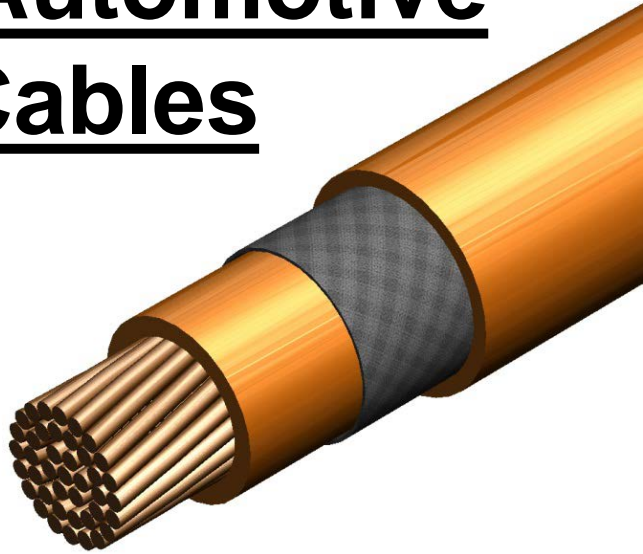
- G12 - Proprietary Formulated Crosslinked Polyethylene
- TXL or ISO Thin Wall Constructions
- 3000hr 125°C Rated Material
- Low Cost Solution to PTFE
- Competitive to Nylon

Fuel Systems Wire

Wire Type	Judd Spec	Wall Thickness (20awg/0.50mm Example)	Temp Rating	Size	Insulation Type
SAE Silicone Blocked	JW1266	0.40mm	125°C	22awg – 12awg	G12 XLPO
SAE	JW573	0.40mm	125°C	22awg – 12awg	G12 XLPO
ISO Silicone Blocked	JW1416	0.30mm	125°C	0.35mm ² – 3.00mm ²	G12 XLPO



High Voltage Automotive Battery Cables



Applications

- 2mm² up to 10mm²
 - Auxiliary power supply cables
- 12mm² up to 120mm²
 - Power unit cables
 - Power control cables
 - Battery cables

Product Characteristics

- 600V rated per SAE & ISO
- Bare Copper Conductor
 - Symmetric or Asymmetric Options
- 95% Braid Shield Coverage
- Flexible Insulation Systems
- 150°C & 200°C 3000hr Rated
- High Abrasion Resistance
- High Current Carrying Capacity

Spec	JW1280	JW1187	JW1314	JW1313	JW1301
Construction	Shielded	Shielded	Shielded	Unshielded	Unshielded
Temp. Rating	150°C	150°C	200°C	150°C	200°C
Materials	XLPE or Flexible XLPO	Flexible XLPO	Flexible XLFE	XLPE or Flexible XLPO	Flexible XLFE

High Voltage Automotive Battery Cables

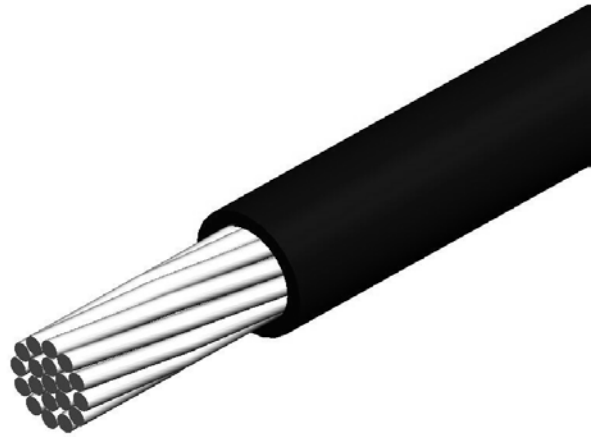
Spec	JW1280	JW1187	JW1314	JW1313	JW1301
Construction	Shielded	Shielded	Shielded	Unshielded	Unshielded
Temp. Rating	150°C	150°C	200°C	150°C	200°C
Materials	XLPE or Flexible XLPO	Flexible XLPO	Flexible XLFE	XLPE or Flexible XLPO	Flexible XLFE

	12mm ²		16mm ²		35mm ²		50mm ²	
	JW1280	EX-50	JW1280	EX-50	JW1280	EX-50	JW1280	EX-50
Insulated Core Diameter (mm)	6.15	6.33	6.78	6.80	9.90	9.90	11.80	11.60
Braid Configuration	36AWG 95%	36AWG 95%	36AWG 95%	36AWG 95%	34AWG 95%	34AWG 95%	34AWG 95%	34AWG 95%
Overall Cable Diameter (mm)	8.17	8.30	8.81	9.30	12.01	12.90	13.97	14.90
Bend Force (N)	10.20	9.60	27.10	20.90	40.00	34.50	49.80	40.40
Flexibility Improvement	6%		23%		13%		18%	

Transmission Wire

Materials

- Conductors
 - Bare Copper
 - Tinned Copper
 - Silicone Blocked
 - Bare Copper
 - Tinned Copper
- 3000hr Rated Insulations
 - Crosslinked Fluoroelastomer
 - 150°C: J5, J7
 - 200°C: R5
 - Crosslinked ETFE
 - 200°C: XLETFE



Transmission Wire

Wire Type	Judd Spec	Wall Thickness (20awg/0.50mm Example)	Temp Rating	Size	Insulation Type
SAE Silicone Blocked	JW1067	0.40mm	150°C	22awg – 12awg	J5
	JW1111				J7
	JW1072		200°C		R5
SAE	JW1158	0.40mm	150°C	22awg – 12awg	J5
	JW1342				J7
	JW1107		200°C		R5
ISO	JW1339	0.30mm	150°C	0.35mm ² – 3.00mm ²	J5
	JW1407				J7
	JW1355		200°C		R5

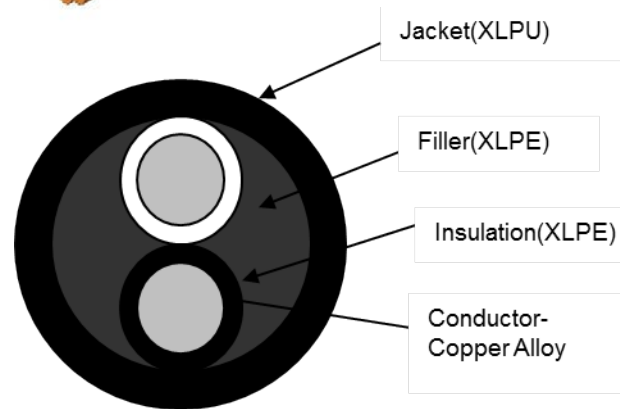
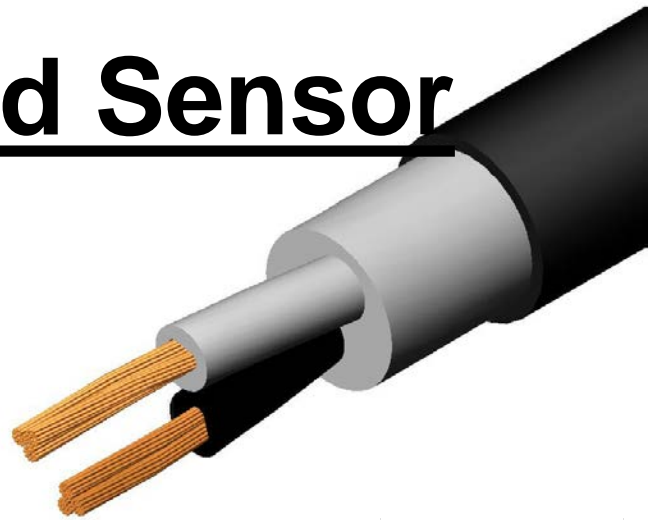
Wheel Speed Sensor

Product Characteristics

- High Tensile Strength
- High Flex Endurance
- High Abrasion Resistance
- Up to 125°C 3000hr rated
- JASO/SAE/ISO Compliant

Materials

- Conductors
 - Annealed Copper
 - Copper Alloy
 - High Strand Count
- Core Insulation
 - Crosslinked Polyethylene
 - Halogen Free
- Jacket Insulation
 - Crosslinked Polyurethane Types
 - Halogen Free
 - Heat Resistant
 - Flame Retardant
 - Heat Adhesive



Standard Sizes

0.50mm² – 6.2mm OD

0.30mm² – 5.0mm OD

0.25mm² – 4.3mm OD

0.25mm² – 4.0mm OD