CAN Bus Data Cables

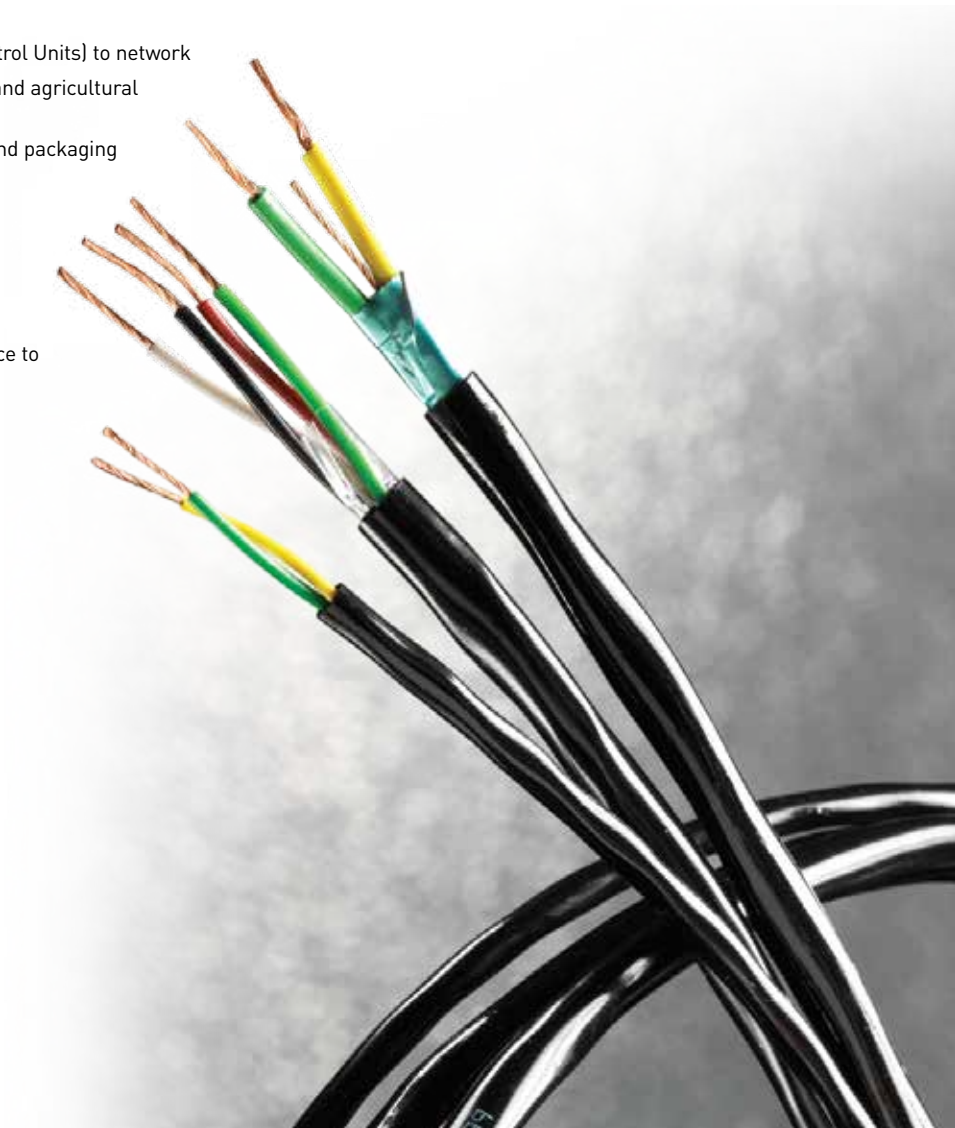
Delivering Signal & Supplying Power for Transportation Applications

Prestolite Wire® Brand CAN Bus Data Cables are designed to the SAE J1939 specification, utilizing proprietary materials specifically designed for exceptional electrical performance. Twisted unshielded or shielded pair designs are available in both 20 AWG and 18 AWG constructions and may be constructed to specific design requirements to match the mating connector blocks.

Since 1911, Prestolite Wire® has been engineering a complete line of wire and cable, electrical components, wire harnesses and fully assembled electronic modules and systems to serve the global transportation market and the automotive aftermarket. Learn more at www.prestolitewire.com.

Applications

- In-vehicle cable for sensors and actuators
- Electrical connection for a number of ECUs (Electronic Control Units) to network
- Transmit signal and conduct power to heavy trucks, buses and agricultural vehicles such as combines, tractors and sprayers
- Industrial machinery including injection molding, printing and packaging machines



Features

- Abrasion- and cut-resistant
- Waterproof 125°C TPU jackets
- Excellent chemical resistance properties including resistance to oil and other chemicals
- Exceeds -40°C cold bend requirements and can deliver on -60°C performance

Design Options

- Available on reels
- Available with or without fillers
- Other design options available

Compliances

Meets and exceeds the following requirements:

- SAE J1939-11
- SAE J1939-15
- SAE J1939-14
- SAE J1128 Performance (fluid & flame propagation)

CAN Bus Data Cables, Shielded

SAE J1939-11

SPECIFICATIONS

MECHANICAL CHARACTERISTICS	
Construction	Shielded twisted pair
Conductors	18 AWG & 20 AWG stranded bare copper
Insulation	HDPE
Jacket	TPU
Colors Insulation Jacket	 Green & Yellow Black
Temperature Rating	-60°C to 125°C
Features	Abrasion- and cut-resistant Waterproof 125°C TPU jacket Excellent oil and chemical resistance
Compliances	SAE J1939-11 Physical Media SAE J1128 Performance (fluid, flame propagation) RoHS Compliant

ELECTRICAL CHARACTERISTICS	Min.	Nom.	Max.
DC Resistance @ 20˚C	0 mOhms/m	25 mOhms/m	50 mOhms/m
Nom. Velocity of Propagation % Speed of Light		76% 5ns/m	
Characteristic Impedence @ 1 MHz	108 Ω	120 Ω	132 Ω
Capacitance (between conductors) @ 1 MHz	0 pF/m	40 pF/m	75 pF/m
Capacitance (conductors to shield) @ 1 MHz	0 pF/m	70 pF/m	110 pF/m

PART NUMBER	AWG	STRANDING	NUMBER OF CONDUCTORS	INSULATION THICKNESS		NOMINAL O.D.		FILLER	DRAIN WIRE
				IN	mm	IN	mm		
151099	18	19	2	0.130	3.30	0.335	8.51	No	Yes
152078	18	19	2	0.130	3.30	0.335	8.51	Yes	Yes
151097	20	19	2	0.105	2.67	0.285	7.24	No	Yes
152077	20	19	2	0.096	2.43	0.265	6.73	Yes	Yes

Note: Other designs available upon request.

CAN Bus Data Cables, Unshielded

SAE J1939-15

SPECIFICATIONS

MECHANICAL CHARACTERISTICS	
Construction	Unshielded twisted pair
Conductors	18 AWG & 20 AWG stranded bare copper
Insulation	HDPE
Jacket	TPU
Colors Insulation Jacket	 2-Conductor (Green & Yellow) 4-Conductor (Green, Red, Black, White) Black
Temperature Rating	-60°C to 125°C
Features	Abrasion- and cut-resistant Waterproof 125°C TPU jacket Excellent oil and chemical resistance
Compliances	SAE J1939-15 Physical Media SAE J1128 Performance (fluid, flame propagation) RoHS Compliant

ELECTRICAL CHARACTERISTICS	Min.	Nom.	Max.
DC Resistance @ 20°C	0 mOhms/m	25 mOhms/m	50 mOhms/m
Nom. Velocity of Propagation % Speed of Light		76% 5ns/m	
Characteristic Impedence @ 1 MHz	108 Ω	120 Ω	132 Ω
Capacitance (between conductors) @ 1 MHz	0 pF/m	40 pF/m	75 pF/m

PART NUMBER	AWG	STRANDING	NUMBER OF CONDUCTORS	INSULATION THICKNESS		NOMINAL O.D.		FILLER
				IN	mm	IN	mm	
149816	18	19	2	0.084	2.13	0.232	5.89	No
153267	18	19	2	0.084	2.13	0.232	5.89	Yes
153723	18	19	4	0.084	2.13	0.340	8.64	No
149807	20	19	2	0.065	1.65	0.200	5.08	No
152961	20	19	2	0.065	1.65	0.200	5.08	Yes
153821	20	19	4	0.065	1.65	0.285	7.24	No

Note: Other designs available upon request.

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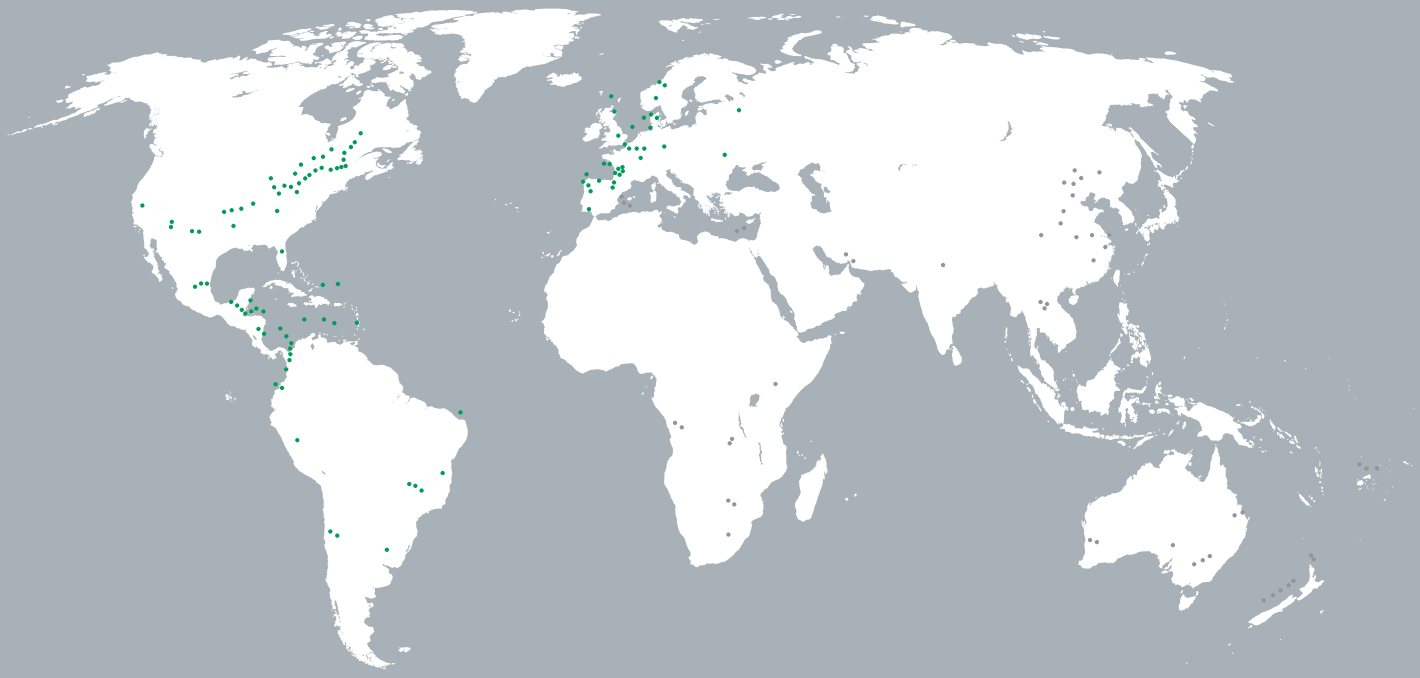
CONNECTING THE WORLD

Global Reach



General Cable, a leading wire and cable innovator for over 170 years, serves customers through a global network of manufacturing facilities in our core markets and has worldwide sales representation and distribution. The Company is dedicated to the production of high-quality aluminum, copper and fiber optic wire and cable and systems solutions for the energy, construction, industrial, specialty and communications sectors. In addition to our strong brand recognition and strengths in technology and manufacturing, General Cable is also competitive in such areas as distribution and logistics, marketing, sales and customer service. This combination enables General Cable to better serve its customers as they expand into new geographic markets.

General Cable

4 Tesseneer Drive
Highland Heights, KY 41076
Phone:800.498.3132

prestolite wire BRAND

One Prestolite Drive
Paragould, AR 72450
Phone: 800.952.3842

www.prestolitewire.com
www.generalcable.com

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