



## CAN-BUS Data Cables

### SAE J1939-11 Physical Layer, 250K bits/sec, Twisted Shielded Pair

Prestolite's CAN-BUS data cable is designed to the SAE J1939-11 specification utilized proprietary materials specifically designed for exceptional electrical performance. Shielded designs are available in both 20 AWG and 18 AWG constructions, while specific design requirements to match Tyco connector blocks.

#### Features:

- -60C to 125C rating
- Meets SAE J1939-11 Physical Media Parameters for Shielded Twisted Pair Cable
  - Impedance: 108 – 132  $\Omega$  at 1 MHz
  - Resistance: 50 m $\Omega$ /m maximum
  - Line Delay: 5.0 ns/m
  - Capacitance: 75 pF/m maximum, between conductors
  - Capacitance: 110 pF/m maximum, conductor to shield
  - Shield Effectiveness: 225 m $\Omega$ /m maximum
- Tough, abrasion and cut resistant, waterproof 125C rated TPU jacket with excellent oil and chemical resistance. Excellent cold bend flexibility to -60C.

#### Specifics for Standard CAN-BUS Cable

Product Line	Conductor	Conductor Diameter	Filler	Overall Diameter	Impedance	Capacitance	Shield	Drain Wire	Insulation - Jacket
J1939/11 20ga (150925)	20ga 19x33ga Bare Copper	0.096" Nom	Yes	0.287" Nom	120 $\pm$ 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	Yes	20ga 10x30T	125C XL 125C TPU
J1939/11 20ga (150928)	20ga 19x33ga Bare Copper	0.113" Nom	No	0.276" Nom	120 $\pm$ 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	Yes	20ga 10x30T	125C XL 125C TPU
J1939/11 18ga (150922)	18ga 19x0092 Bare Copper	0.128" Nom	Yes	0.380"Nom	120 $\pm$ 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	Yes	20ga 10x30T	125C XL 125C TPU
J1939/11 18ga (150920)	18ga 19x0092 Bare Copper	0.128" Nom	No	0.380"Nom	120 $\pm$ 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	Yes	20ga 10x30T	125C XL 125C TPU
J1939/11 18ga (150894)	18ga 19x0092 Bare Copper	0.128" Nom	No	0.325"Nom	120 $\pm$ 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	Yes	20ga 10x30T	125C XL 125C TPU

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