SAE J1939-11

CAN Bus Data Cables

-60°C to 125°C

Features

Impedance 108 -132 Ω at 1 MHz
Insulation: XLPO 125°C, 125°C TPU
Resistance: 50 mΩ/m maximum @ 20°C
Line delay: 5.0 ns/m nominal
Capacitance: 110 pF/m maximum; conductor to shield
Capacitance: 75 pF/m maximum, between conductors
Shield Effectiveness: 225mΩ /m maximum
Shielded twisted pair
Reduced physical layer, 250k bits/sec
Abrasion and cut resistant, waterproof 125°C TPU jacket
Excellent oil and chemical resistance

Compliances

RoHS compliant
SAE J1939-11 Physical media
SAE J1128 performance (fluid, flame propagation)

Product Design Options

Custom strand constructions
Custom diameter to meet design criteria
Various colors for base and stripe combinations
Packaging options: reels, drums, returnable containers
Available with or without fillers
Insulation option: 150°C
Available with bare or tinned drain wire

Applications

Electrical connection of a number of ECU's (Electronic Control Units) to a reduced network

Product Line	Conductor	Conductor Diameter	Filler	Overall Diameter	Impedance	Capacitance	App. Net Weight (lbs/mft)	App. Cu (lbs/mft)	Shield	Drain Wire	Insulation - Jacket
J1939/11 20ga (150925)	20ga 19x33ga Bare Copper	0.096" Nom	Yes	0.287" Nom	120 ± 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	40	9	Yes	20ga 10x30 Tin	125C XL 125C TPU
J1939/11 20ga (150928)	20ga 19x33ga Bare Copper	0.096" Nom	No	0.276" Nom	120 ± 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	29	9	Yes	20ga 10x30 Tin	125C XL 125C TPU
J1939/11 20ga (151097)	20ga 19x33ga Bare Copper	0.096" Nom	No	0.276" Nom	120 ± 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	29	9	Yes	20ga 10x30 Bare Copper	125C XL 125C TPU
J1939/11 20ga (151140)	20ga 19x33ga Bare Copper	0.096" Nom	Yes	0.287" Nom	120 ± 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	40	9	Yes	20ga 10x30 Bare Copper	125C XL 125C TPU
J1939/11 18ga (150922)	18ga 19x0092 Bare Copper	0.128" Nom	Yes	0.380"Nom	120 ± 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	66	13	Yes	20ga 10x30 Tin	125C XL 125C TPU
J1939/11 18ga (150920)	18ga 19x0092 Bare Copper	0.128" Nom	No	0.380"Nom	120 ± 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	62	13	Yes	20ga 10x30 Tin	125C XL 125C TPU
J1939/11 18ga (150894)	18ga 19x0092 Bare Copper	0.128" Nom	No	0.325"Nom	120 ± 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	45	13	Yes	20ga 10x30 Tin	125C XL 125C TPU
J1939/11 18ga (151099)	18ga 19x0092 Bare Copper	0.128" Nom	No	0.325"Nom	120 + 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	45	13	Yes	20ga 10x30 Bare Copper	125C XL 125C TPU
J1939/11 18ga (151141)	18ga 19x0092 Bare Copper	0.128" Nom	Yes	0.380"Nom	120 + 10% ohms @ 1 MHz	75 pF/m max @ 1 MHz (between conductors) 110 pF/m max @ 1 MHz (conductor to shield)	66	13	Yes	20ga 10x30 Bare Copper	125C XL 125C TPU

Customer Service Group
1 Prestolite Drive Paragould, Arkansas 72450
Phone: 800-952-3842 870-236-8141 Fax: 870-239-6139
Web: www.prestolitewire.com

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