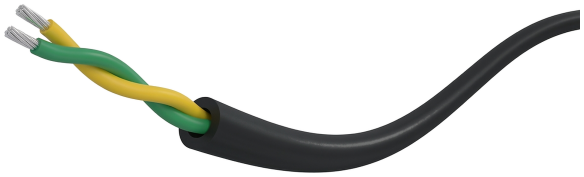
casmocable
CABLES FOR EXTREMES

SAE J1939/15-150

-40°C to +150°C, 300V



Construction
Conductor: Bare Copper or Tinned Copper · Stranded
Core Insulation: Foamed · Foam FEP
Cabling: Twisted · Twisted pair (33 mm nominal lay length)
Core Identification: Yellow (CAN_H), Green (CAN_L)
Jacket: Extruded · TPV

Thermal Characteristics
Operating Temperature: -40°C to +150°C

Electrical Characteristics
Operating Voltage: 300V
Test Voltage: 2000V / 1 min
Characteristic Impedance: 120 Ω ± 12 Ω (at 1 MHz)
Nominal Capacitance: 75 pF/m (conductor-to-conductor)

Application
Vehicle CAN-Bus Networks: For communication links between electronic control units in commercial vehicles and mobile equipment, using the cable construction specified for the applicable CAN network.
Mobile Equipment Communication: For data connections in construction machinery, agricultural equipment and other mobile systems where cable routing and environmental requirements must match the installation.

General Characteristics
High-Temperature Engine-Bay Endurance: Foamed fluoropolymer core insulation and rugged TPV jacket withstand high-heat routing near turbochargers and exhaust aftertreatment modules.
Circular Extruded Jacket Profile: Round outer jacket profile supports sealed automotive connector grommet compression and resists moisture wicking along harness entries.
Compact Lightweight Harness Routing: Unshielded two-wire architecture reduces outer diameter, bend radius, harness weight and splice termination complexity.

Standards & Approvals
SAE J1939/15: Reduced physical layer, 250 kbps, unshielded twisted pair (UTP) for commercial vehicle and mobile equipment serial communication networks.

RoHS COMPLIANT REACH COMPLIANT

CASMO Part No.	Conductor			Insulation		Cable			Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Ins. Thickness (mm)	Nom. Core O.D. (mm)	Nom. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)	
16100620/19-AS-BK	20	19	0.20	0.40	2.00	0.70	5.8	0.4	37.1
16100620/19-TS-BK	20	19	0.20	0.40	2.00	0.70	5.8	0.4	38.2
16100618/19-AS-BK	18	19	0.23	0.45	2.20	0.80	6.3	0.4	22.3
16100618/19-TS-BK	18	19	0.23	0.45	2.20	0.80	6.3	0.4	23.2

Table Notes

* Conductor code: "-AS-" = bare copper conductor; "-TS-" = tinned copper conductor.

† Jacket colour code: "-BK" = Black (standard). Other jacket colours available on request.

‡ Conductor cross-section reference: 20 AWG (19 × 0.20 mm, 0.5 mm² nominal class); 18 AWG (19 × 0.23 mm, 0.8 mm² nominal class).

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.

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