BUS CAN

-40°C to +80°C, 250V



Construction
Conductor: Bare Copper · Stranded
Core Insulation: Foamed · Foam PE
Cabling: Twisted
Core Identification: 1×2: White / Brown; 2×2: White / Brown, Green / Yellow (DIN 47100)
Shield: Braid · Tinned copper braid
Jacket: Extruded · PVC

Thermal Characteristics
Operating Temperature: -40°C to +80°C
Occasional Flexing Temperature: -5°C to +70°C

Electrical Characteristics
Operating Voltage: 250V
Test Voltage: 1500V
Characteristic Impedance: 120 Ω ± 12 Ω (at 1 MHz)
Mutual Capacitance: Approx. 40 nF/km (at 800 Hz)
Velocity of Propagation: Approx. 76%

Application
Fieldbus and Serial Data Networks: For differential serial and fieldbus communication links between programmable controllers, distributed I/O modules, drives and field devices.
Control Cabinets: For wiring within control cabinets, control panels and electrical assemblies.

General Characteristics
Low-Capacitance Signal Integrity: Low-capacitance insulation and balanced pair twist help limit signal attenuation across extended transmission distances.
EMC Interference Shielding: Metallic shielding helps suppress electromagnetic interference and maintain signal integrity in electrically noisy environments.
Flexibility: Flexible construction facilitates routing, bending and installation where space is limited.

Standards & Approvals
ISO 11898-2: High-speed CAN and CAN FD physical layer (fixed installation).
DIN 47100: Paired core color identification.

Fire Performance
Fire Retardant: IEC 60332-1-2

CASMO Part No.	Conductor			Insulation		Min. Braid Coverage (%)	Cable		Max. DCR @20°C (Ω/km)
	Conductor Size (mm²)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Ins. Thickness (mm)	Nom. Core O.D. (mm)		Nom. Jkt. Thickness (mm)	Nom. O.D. (mm)	
1230010.22/7-1P-AS-VT	1×2×0.22	7	0.20	0.52	1.65	80	0.85	5.7	93.0
1230010.22/7-2P-AS-VT	2×2×0.22	7	0.20	0.52	1.65	80	0.95	7.3	93.0
1230010.34/7-1P-AS-VT	1×2×0.34	7	0.25	0.62	2.00	80	0.95	6.8	57.5
1230010.34/7-2P-AS-VT	2×2×0.34	7	0.25	0.62	2.00	80	1.10	8.4	57.5
1230010.5/7-1P-AS-VT	1×2×0.5	7	0.30	0.75	2.40	80	1.05	7.8	39.0
1230010.5/7-2P-AS-VT	2×2×0.5	7	0.30	0.75	2.40	80	1.20	9.7	39.0
1230010.75/19-1P-AS-VT	1×2×0.75	19	0.23	0.85	2.85	80	1.10	8.7	26.0

Table Notes

* "-AS-" = stranded bare copper conductor; "-1P" / "-2P" = number of twisted pairs; "-VT" = violet (RAL 4001) PVC outer sheath (standard).

† Max. DCR @20°C is specified per single conductor; maximum DC loop resistance equals 2 × single-conductor DCR (186 / 115 / 78 / 52 Ω/km for 0.22 / 0.34 / 0.5 / 0.75 mm²).

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