BUS L2-150

-40°C to +80°C, 250V



Construction
Conductor: Bare Copper · Solid
Core Insulation: Foamed · Foam PE
Cabling: Twisted
Core Identification: Red (Line B), Green (Line A)
Shield: Foil · Aluminum/polyester (Al/PET) foil
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: 150 Ω ± 15 Ω (3 to 20 MHz)
Mutual Capacitance: Approx. 30 nF/km (at 800 Hz)
Velocity of Propagation: Approx. 80%

Application
Fieldbus and Serial Data Networks: For differential serial and fieldbus communication links between programmable controllers, distributed I/O modules, drives and field devices.
Industrial Automation: For power, signal or control connections within industrial automation systems, as specified for the selected cable construction.

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.
Mechanical Strength: Provides mechanical strength to withstand handling and installation stresses and help maintain cable integrity.

Standards & Approvals
IEC 61158-2: Type A fieldbus physical layer.

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)	
1230030.32/1-1P-AD-VT	1×2×0.32	1	0.64	0.95	2.55	65	1.10	8.0	55.0

Table Notes

* "-AD-" = solid bare copper conductor; "-1P" = 1 twisted pair (Red Line B / Green Line A); "-VT" = violet (RAL 4001) PVC outer sheath calibrated to 8.0 mm O.D. for standard IDC / Sub-D9 bus connectors.

† Max. DCR @20°C is specified per single conductor (55.0 Ω/km), corresponding to ≤ 110.0 Ω/km maximum DC loop resistance per IEC 61158-2 Type A.

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