BUS L2-150 FD

-40°C to +80°C, 250V



Construction
Conductor: Bare Copper · Flexible Stranded
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 · PUR/TPU

Thermal Characteristics
Operating Temperature: -40°C to +80°C
Continuous Flexing Temperature: -30°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
Cable Carriers and Moving Machinery: For dynamic signal and control routing in drag chains, gantries, linear axes and automated handling equipment.
Fieldbus and Serial Data Networks: For differential serial and fieldbus communication links between programmable controllers, distributed I/O modules, drives and field devices.

General Characteristics
Continuous-Flex Durability: Designed to withstand repeated bending cycles in cable carriers and continuously moving machinery.
Oil Resistance: Resistant to oil exposure, helping maintain the integrity of the cable covering in oily environments.
Abrasion Resistance: Resistant to abrasion, helping protect the cable surface against wear caused by rubbing and handling.
EMC Interference Shielding: Metallic shielding helps suppress electromagnetic interference and maintain signal integrity in electrically noisy environments.

Standards & Approvals
Based on IEC 61158-2 Type A: Based on IEC 61158-2 Type A (150 Ω) PROFIBUS DP fieldbus physical layer adapted with flexible 19-strand conductors for continuous-flex drag-chain installations.
Halogen-Free: IEC 60754-1

Fire Performance
Fire Retardant: FT2

RoHS COMPLIANT REACH COMPLIANT

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)	
1230040.34/19-1P-AS-VT	1×2×0.34	19	0.15	0.90	2.55	65	1.10	8.0	57.5

Table Notes

* "-AS-" = 19-strand flexible bare copper conductor for drag-chain (FD) service; "-1P" = 1 twisted pair (Red Line B / Green Line A); "-VT" = violet (RAL 4001) PUR outer sheath calibrated to 8.0 mm O.D.

† Max. DCR @20°C is specified per single conductor (57.5 Ω/km), corresponding to ≤ 115.0 Ω/km maximum DC loop resistance. Because flexible stranded conductors exceed the solid-core IEC 61158-2 Type A loop limit (110 Ω/km), derate maximum segment length by approximately 10%–20% depending on baud rate and flexible run share.

‡ Standard halogen-free PUR jacket meets FT2 flame rating; low-halogen VW-1 / FT1 jacket available upon request.

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