

DEVICENET® PVC or PUR



DEVICENET® is a bus system developed by Allen-Bradley (Rockwell Automation) that connects industrial devices such as limit switches, photo-electric switches, variable frequency drives, motor starters, valve islands, PLC's or any other on-line bus system component. There are two versions of Trunk (Thick) and Drop (Thin) available for stationary or high flexing applications designed for easier installations and resistance to vibration fatigue. All **DEVICENET®** cables contain one data pair and one power pair. Available in violet or gray PVC and violet polyurethane (PUR) jackets. Conforms to ODVA international standards.



Construction:

- Stranded tinned copper
- VDE-0295 Class-5 strand for PUR versions
- Special polyethylene core insulation
- Color code - data (blue/white) power (red/black)
- Twisted pair configuration
- Special foil wrapping over each pair
- Overall tinned copper braid shield
- Both pairs use a common drain wire
- PVC, PUR or halogen-free outer jacket
- Violet (RAL 4001)

Technical:

- Working voltage: 300 volts
- Test voltage: 2000 volts
- Static bending radius: 15 x Ø
- Flexing bending radius: 15 x Ø
- Static PVC temp: -20° C to +80° C
- Flexing PUR temp: -40° C to +80° C
- Flame retardant: IEC 60332.1-2
- Loop resistance: 45 Ω / km (thick)
- Loop resistance: 180 Ω / km (thin)
- Impedance: 120 Ω
- Mutual Cap (800 Hz): max 40nF/km

Approvals:

- UL/CSA type CMG
- UL/CSA type CMX for PUR version
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant



PART NUMBER		AWG	PAIRS	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
STATIONARY APPLICATIONS						
PVC (UL/CSA CMG)						
8301815	Data	18	1	0.480" / 12.2mm	60	125
Trunk / Thick	Power	15	1			
8302422	Data	24	1	0.283" / 7.2mm	22	46
Drop / Thin	Power	22	1			
Halogen-Free (UL/CSA CMG)						
8321815	Data	18	1	0.480" / 12.2mm	60	125
Trunk / Thick	Power	15	1			
8322422	Data	24	1	0.283" / 7.2mm	22	46
Drop / Thin	Power	22	1			

PART NUMBER		AWG	PAIRS	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
HIGH FLEX APPLICATIONS						
PVC (UL/CSA CMG)						
8311815	Data	18	1	0.480" / 12.2mm	60	125
Trunk / Thick	Power	15	1			
8312422	Data	24	1	0.272" / 6.9mm	22	46
Drop / Thin	Power	22	1			
Polyurethane (UL/CSA CMX)						
8331815	Data	18	1	0.720" / 18.3mm	60	130
Trunk / Thick	Power	15	1			
8332422	Data	24	1	0.409" / 10.4mm	22	49
Drop / Thin	Power	22	1			

© **DeviceNet** is a registered trademark of Open DeviceNet Vendor Association - ODVA (USA).