

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 | | | |
| 8302422 | Data | 24 | 1 | 0.283" / 7.2mm | 22 | 46 |
| | Drop / Thin | Power | 22 | | | |
| Halogen-Free (UL/CSA CMG) | | | | | | |
| 8321815 | Data | 18 | 1 | 0.480" / 12.2mm | 60 | 125 |
| | Trunk / Thick | Power | 15 | | | |
| 8322422 | Data | 24 | 1 | 0.283" / 7.2mm | 22 | 46 |
| | Drop / Thin | Power | 22 | | | |

| 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 | | | |
| 8312422 | Data | 24 | 1 | 0.272" / 6.9mm | 22 | 46 |
| | Drop / Thin | Power | 22 | | | |
| Polyurethane (UL/CSA CMX) | | | | | | |
| 8331815 | Data | 18 | 1 | 0.720" / 18.3mm | 60 | 130 |
| | Trunk / Thick | Power | 15 | | | |
| 8332422 | Data | 24 | 1 | 0.409" / 10.4mm | 22 | 49 |
| | Drop / Thin | Power | 22 | | | |

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