



USE OF CABLE

as fieldbus cables for DeviceNet™ systems in the field of production automation for reliable data and energy transmission (e.g. between sensors, actuators and controllers), for fixed installation & flexible applications.

DeviceNet™ is an Allen Bradley (Rockwell Automation) developed, based on proven CAN technology bus system.

Standard acc. ODVA specifications



SPECIAL FEATURES

- largely resistant to grease, coolant fluids and lubricants
- oil-resistant: acc. to DIN EN 60811-2-1 (only mineral oil)
- UV-resistant
- optimized EMC compliant shielding
- max. cable lengths for a bus segment at stated transmission rate as supply cable:
Trunk - thick: 125 kbit/s-max.500m | 250 kbit/s-max.250m | 0,5 Mbit/s-max.100m
Drop - thin : 125 kbit/s-max.100m | 250 kbit/s-max.100m | 0,5 Mbit/s-max.100m

REMARKS

- conform to RoHS
- conform to DESINA (violet)
- conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- LABS-/silicone-free (during production)
- ODVA - Open DeviceNet Vendors Association

PRODUCT INFORMATION

Conductor material:	Copper strand tinned
Conductor class:	19-wired
Core insulation:	BUScores: foamed PE, supply cores: PVC
Core identification:	BUScores: bu, wh; supply cores: rd, bk
Stranding:	Cores twisted to pairs
Shield:	Pairs in aluminium clad foil, cover. 100%
Overall stranding:	Pairs stranded in layers
Shield3:	Copper braid tinned, with subjacent tinned drain wire
Outer sheath:	PVC
Sheath colour:	Violet RAL 4001 (VT) or grey RAL 7001 (GY)
Rated voltage:	300 V (not for high voltage purposee)
Testing voltage:	1,5 kV
Loop resistance:	Max. 181,8 Ω/km - AWG24, max. 114,8 Ω/km - AWG22, max. 45,4 Ω/km - AWG18, max. 22,6 Ω/km - AWG15
Capacity:	Nom. 40 nF/km
Characteristic impedance:	120 Ω +/- 12 Ω
Min. bending radius fixed:	7,5 x d
Min. bending radius moved:	15 x d
Operat. temp. fixed min/max:	-40 °C / +80 °C
Operat. temp. moved min/max:	-10 °C / +70 °C
Burning behavior:	Flame retardant acc. to IEC 60332-3-24(Cat.C),FT4
Resistant to oil:	Acc. to DIN EN 60811-2-1 (only mineral oil)
Approvals:	UL/CSA - (Trunk Cable) cULus 300V, 75°C, CMG/PLTC/SunRes/OilRes & cURus 600V, 60°C (Drop Cable) cULus 300V, 75°C, CMG/CL2/SunRes/OilRes & cURus 600V, 60°C

ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003692	1 X 2 X AWG 18 + 1 X 2 X AWG 15	12,2	90,00	199,00	grey	V1: DeviceNet+ C-PVC TRUNK & DROP UL/CSA - cULus - CMG
2003693	1 X 2 X AWG 24 + 1 X 2 X AWG 22	7,0	35,00	64,00	grey	V1: DeviceNet+ C-PVC TRUNK & DROP UL/CSA - cULus - CMG
2003694	1 X 2 X AWG 18 + 1 X 2 X AWG 15	12,2	90,00	199,00	violet	V2: DeviceNet+ C-PVC TRUNK & DROP UL/CSA - cULus - CMG DESINA
2003695	1 X 2 X AWG 24 + 1 X 2 X AWG 22	7,0	35,00	64,00	violet	V2: DeviceNet+ C-PVC TRUNK & DROP UL/CSA - cULus - CMG DESINA