



USE OF CABLE

as fieldbus cables for CAN (Controller Area Network) systems, in the field of factory automation, for fixed installation & flexible applications.

This bussystem has its origins in the automotive sector and has established itself in the field of production automation.

Standard acc. to CAN Spec.: ISO 11898



SPECIAL FEATURES

- largely resistant to grease, coolant fluids and lubricants
- oil-resistant: acc. to DIN EN 60811-2-1 (only mineral oil)
- UV-resistant (TRAY & BURIAL)
- direct burial (BURIAL)
- EMC compliant shielding
- max. transmission rate: 1 Mbit/s at 40m segment length
- max. cable lengths for a bus segment depending on the cross section
0- 40 m AWG24, AWG22 | 40-300 m AWG22, AWG20 |
300-600 m AWG20 | 600-1.000 m AWG19

REMARKS

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

PRODUCT INFORMATION

Conductor material:	Copper conductor blank
Conductor class:	0,22, 0,34 & 0,5mm²: 7-wired; fine wired acc. to IEC 60228 cl. 5
Core insulation:	Foamed PE/PP
Core identification:	Acc. to DIN VDE 47100
Stranding:	Cores twisted to pairs, TRAY-version: star quad
Inner sheath material:	TRAY: PVC
Shield3:	Copper braid tinned
Outer sheath:	PVC resp. BURIAL: PVC/PE
Sheath colour:	Violet RAL 4001 (VT) or black (BK)
Rated voltage:	250 V (not for high voltage purposes)
Testing voltage:	1,5 kV
Loop resistance:	Max. 175,2 Ω/km - AWG 24, max. 110,8 Ω/km - AWG 22; max. 68,8 Ω/km - AWG 20; max 55,0 Ω/km - AWG 19
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:	PE: not flame retardant PVC CMX: flame retardant acc. to IEC 60332-1-2, VW-1 TRAY: 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 - cULus 300V, 75°C, CMX TRAY: cULus 300V, 75°C, CMG/PLTC-ER/SunRes/OilRes

ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003675	1 X 2 X AWG 24/7 (0,22 mm²)	5,7	19,00	40,00	violet	V1: CAN BUS C-PVC UL/CSA - cULus - CMX DESINA
2003676	2 X 2 X AWG 24/7 (0,22 mm²)	7,4	38,00	60,00	violet	V1: CAN BUS C-PVC UL/CSA - cULus - CMX DESINA
2003677	1 X 2 X AWG 22/7 (0,34 mm²)	6,7	28,00	56,00	violet	V1: CAN BUS C-PVC UL/CSA - cULus - CMX DESINA
2003678	2 X 2 X AWG 22/7 (0,34 mm²)	8,5	48,00	85,00	violet	V1: CAN BUS C-PVC UL/CSA - cULus - CMX DESINA
2003679	1 X 2 X AWG 20/7 (0,5 mm²)	7,5	44,00	73,00	violet	V1: CAN BUS C-PVC UL/CSA - cULus - CMX DESINA
2003680	2 X 2 X AWG 20/7 (0,5 mm²)	9,6	61,00	107,00	violet	V1: CAN BUS C-PVC UL/CSA - cULus - CMX DESINA
2003681	1 X 2 X AWG 19 (0,75 mm²)	8,7	56,00	93,00	violet	V1: CAN BUS C-PVC UL/CSA - cULus - CMX DESINA
2003682	2 X 2 X AWG 19 (0,75 mm²)	11,6	84,00	157,00	violet	V1: CAN BUS C-PVC UL/CSA - cULus - CMX DESINA
2003683	2 X 2 X AWG 22/7 (0,34 mm²)	7,5	48,00	81,00	violet	V2: CAN BUS TRAY C-PVC UL/CSA - cULus - CMG PLTC DESINA

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003684	2 X 2 X AWG 20/7 (0,5 mm²)	9,6	61,00	99,00	violet	V2: CAN BUS TRAY C-PVC UL/CSA - cULus - CMG PLTC DESINA
2003685	2 X 2 X AWG 20/7 (0,5 mm²)	11,6	61,00	138,00	black	V3: CAN BUS BURIAL C-PVC/PE
2003686	2 X 2 X AWG 19 (0,75 mm²)	13,6	84,00	194,00	black	V3: CAN BUS BURIAL C-PVC/PE