

# DEVICENET™ CABLES



**DN 658** Highly flexible shielded DeviceNet™ cable

**DN 659** Highly flexible DeviceNet™ cable with a static screen and UL recognition

r + 22 AWG/1pr AWM Style 20417 60°C 30V CE



Marking for DN 659 06592241:

SAB BRÖCKSKES · D-VIERSEN · DN 659 2x0,24mm<sup>2</sup> + 2x0,38mm<sup>2</sup> 06592241 24 AWG/1pr + 22 AWG/1pr AWM Style 20417 60°C 30V CE

DeviceNet™ is based on proven CAN-technology for rapid data exchange. Trunk Cable and Drop Cable configuration (Trunk Cable: main rope; Drop Cable: service cable). DeviceNet™ is a connection-oriented network. Application as highly flexible Bus cable.

item no.	type	no. of data conductors	no. of power conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/ft
▶ 06582241	DN 658 (Drop Cable)	24 AWG/1pr	22 AWG/1pr	0.260	6.6	51
▶ 06582781	DN 658 (Trunk Cable)	18 AWG/1pr	15 AWG/1pr	0.449	11.4	112
▶ 06592241	DN 659 (Drop Cable)	24 AWG/1pr	22 AWG/1pr	0.260	6.6	44
▶ 06592781	DN 659 (Trunk Cable)	18 AWG/1pr	15 AWG/1pr	0.449	11.4	77

Other dimensions and colors are possible on request.

## General construction:

<b>Wrapping:</b>	each pair wrapped with alu foil
<b>Wrapping:</b>	non-woven tape
<b>Outer jacket:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 with rough surface
<b>Jacket color:</b>	purple

## Technical data:

<b>Voltage UL:</b>	30 V
<b>Peak operating voltage:</b>	max. 350 V
<b>Testing voltage:</b>	1500 V
<b>Min. bending radius:</b>	fixed laying 7.5 x O.D. flexible application 15 x O.D.
<b>Temperature range</b>	<b>DIN VDE</b> UL: up to +60°C <i>static:</i> -30/+70°C <i>flexing:</i> -5/+70°C
<b>Characteristic impedance at 1 MHz:</b>	120 Ω ± 10%
<b>Absence of harmful substances:</b>	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/28



	<b>DN 658 Drop Cable</b> 2 x 0.24 mm <sup>2</sup> + 2 x 0.38 mm <sup>2</sup>	<b>DN 658 Trunk Cable</b> 2 x 0.96 mm <sup>2</sup> + 2 x 1.53 mm <sup>2</sup>	<b>DN 659 Drop Cable</b> 2 x 0.24 mm <sup>2</sup> + 2 x 0.38 mm <sup>2</sup>	<b>DN 659 Trunk Cable</b> 2 x 0.96 mm <sup>2</sup> + 2 x 1.53 mm <sup>2</sup>
▶ <b>Conductor:</b> 0.24 mm <sup>2</sup> tinned copper strands 0.38 mm <sup>2</sup> tinned copper strands	fine wires fine wires	– –	fine wires fine wires	– –
▶ <b>Conductor:</b> 0.96 mm <sup>2</sup> tinned copper strands 1.53 mm <sup>2</sup> tinned copper strands	– –	fine wires fine wires	– –	fine wires fine wires
▶ <b>Insulation:</b>	0.24 mm <sup>2</sup> : acc. to DIN VDE 0819 part 103 (02Y11) 0.38 mm <sup>2</sup> : PVC, TI2 acc. to DIN VDE 0281 part 1	0.96 mm <sup>2</sup> : acc. to DIN VDE 0819 part 103 (02Y11) 1.53 mm <sup>2</sup> : PVC, TI2 acc. to DIN VDE 0281 part 1	0.24 mm <sup>2</sup> : acc. to DIN VDE 0819 part 103 (02Y11) 0.38 mm <sup>2</sup> : PVC, TI2 acc. to DIN VDE 0281 part 1	0.96 mm <sup>2</sup> : acc. to DIN VDE 0819 part 103 (02Y11) 1.53 mm <sup>2</sup> : PVC, TI2 acc. to DIN VDE 0281 part 1
▶ <b>Color code:</b> 0.24 mm <sup>2</sup> : data pair white and light blue 0.38 mm <sup>2</sup> : supply pair black and red	X X	– –	X X	– –
▶ <b>Color code:</b> 0.96 mm <sup>2</sup> : data pair white and light blue <b>Color code:</b> 1.53 mm <sup>2</sup> : supply pair black and red	– –	X X	– –	X X
▶ <b>Stranding:</b> conductors 0.24 mm <sup>2</sup> twisted to pair and conductors 0.38 mm <sup>2</sup> twisted to pair	X X	– –	X X	– –
▶ <b>Stranding:</b> conductors 0.96 mm <sup>2</sup> twisted to pair and conductors 1.53 mm <sup>2</sup> twisted to pair	– –	X X	– –	X X
▶ <b>Total stranding:</b> pairs twisted together with tinned copper drain wire	AWG 22/19	AWG 18/19	AWG 22/19	AWG 18/19
▶ <b>Screen:</b>	tinned copper braiding	tinned copper braiding	alu foil	alu foil