

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 2x0,24mm² + 2x0,38mm² 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:

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

Technical data:

Voltage UL:	30 V
Peak operating voltage:	max. 350 V
Testing voltage:	1500 V
Min. bending radius:	fixed laying 7.5 x O.D. flexible application 15 x O.D.
Temperature range	DIN VDE UL: up to +60°C <i>static:</i> -30/+70°C <i>flexing:</i> -5/+70°C
Characteristic impedance at 1 MHz:	120 Ω ± 10%
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28



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