

# DeviceNet™ Cables



**DN 656** Halogen-free, flexible DeviceNet™ cable with a foil shield and UL recognition

**DN 657** Halogen-free, flexible DeviceNet™ cable with tinned copper shield



Marking for DN 656 6562241:

SAB BRÖCKSKES · D-VIERSEN · DN 656 2x0.24mm<sup>2</sup>+2x0.38mm<sup>2</sup> 6562241 24AWG/1pr+22AWG/1pr AWM Style 21080 75°C 300V CE

<b>Construction:</b>	<b>DN 656</b> Drop Cable	<b>DN 656</b> Trunk Cable	<b>DN 657</b> Drop Cable	<b>DN 657</b> Trunk Cable
<b>Item numbers:</b>	6562241	6562781	6572241	6572781
<b>Dimensions:</b>	2 x 0.24 mm <sup>2</sup> + 2 x 0.38 mm <sup>2</sup>	2 x 0.96 mm <sup>2</sup> + 2 x 1.53 mm <sup>2</sup>	2 x 0.24 mm <sup>2</sup> + 2 x 0.38 mm <sup>2</sup>	2 x 0.96 mm <sup>2</sup> + 2 x 1.53 mm <sup>2</sup>
<b>Conductor:</b> 0.24mm <sup>2</sup> tinned copper strands 0.38 mm <sup>2</sup> tinned copper strands	AWG 24/19 AWG 22/19	— —	AWG 24/19 AWG 22/19	— —
<b>Conductor:</b> 0.96 mm <sup>2</sup> tinned copper strands 1.53 mm <sup>2</sup> tinned copper strands	— —	AWG 18/19 AWG 15/19	— —	AWG 18/19 AWG 15/19
<b>Insulation:</b>	0.24 mm <sup>2</sup> : acc. to EN 50290-2-23 (02Y11) 0.38 mm <sup>2</sup> : SABIX®	0.96 mm <sup>2</sup> : acc. to EN 50290-2-23 (02Y11) 1.53 mm <sup>2</sup> : SABIX®	0.24 mm <sup>2</sup> : acc. to EN 50290-2-23 (02Y11) 0.38 mm <sup>2</sup> : SABIX®	0.96 mm <sup>2</sup> : acc. to EN 50290-2-23 (02Y11) 1.53 mm <sup>2</sup> : SABIX®
<b>Color code:</b>	0.24 mm <sup>2</sup> /0.96 mm <sup>2</sup> : data pair white and light blue; 0.38 mm <sup>2</sup> /1.53 mm <sup>2</sup> : supply pair black and red		0.24 mm <sup>2</sup> /0.96 mm <sup>2</sup> : data pair white and light blue; 0.38 mm <sup>2</sup> /1.53 mm <sup>2</sup> : supply pair black and red	
<b>Wrapping:</b>	conductors twisted to pairs stranded with alu foil		conductors twisted to pairs stranded with alu foil	
<b>Stranding:</b>	pairs in specially adjusted layering, tinned copper drain wire in core			
<b>Shielding:</b>	alu. foil	alu. foil	tinned copper braiding	tinned copper braiding
<b>Wrapping:</b>	non-woven tape	non-woven tape	non-woven tape	non-woven tape
<b>Jacket material:</b>	SABIX®			
<b>Jacket color:</b>	red lilac (RAL 4001)			

<b>Technical data:</b>	<b>DN 656</b> Drop Cable	<b>DN 656</b> Trunk Cable	<b>DN 657</b> Drop Cable	<b>DN 657</b> Trunk Cable
<b>Peak operating voltage:</b>	max. 350 V	max. 350 V	max. 350 V	max. 350 V
<b>Voltage UL:</b>	300 V	300 V	—	—
<b>Testing voltage:</b> conductor/conductor: conductor/shielding:	2000 V 2000 V	2000 V 2000 V	1500 V 1200 V	1500 V 1200 V
<b>Min. bending radius:</b> fixed installation: free movement:	7.5 x O.D. 15 x O.D.	7.5 x O.D. 15 x O.D.	7.5 x O.D. 15 x O.D.	7.5 x O.D. 15 x O.D.
<b>Temperature range:</b> static: flexible:	<b>UL:</b> up to +75°C -40/+70°C -30/+70°C	<b>UL:</b> up to +75°C -40/+70°C -30/+70°C	-40/+70°C -30/+70°C	-40/+70°C -30/+70°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1		acc. to IEC 60754-1 + VDE 0482-754-1	
<b>Characteristic impedance:</b>	120 Ω ± 10%		120 Ω ± 10%	
<b>UL Style:</b>	21080		—	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page O/30			

item no.	type	no. of data conductors	no. of power conductors	outer-ø		cable weight ≈ lbs/mft
				inch	mm	
▶ 6562241	DN 656 (Drop Cable)	24 AWG/1pr	22 AWG/1pr	0.260	6.6	38
▶ 6562781	DN 656 (Trunk Cable)	18 AWG/1pr	15 AWG/1pr	0.449	11.4	81
▶ 6572241	DN 657 (Drop Cable)	24 AWG/1pr	22 AWG/1pr	0.260	6.6	50
▶ 6572781	DN 657 (Trunk Cable)	18 AWG/1pr	15 AWG/1pr	0.449	11.4	123

Other dimensions and colors are available on request