

DEVICENET™ CABLES

DN 658 Highly flexible DeviceNet™ cable with overall copper screen and UL recognition

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



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





General construction:

| | |
|-------------------------|--|
| Wrapping: | each pair wrapped with alu foil |
| Wrapping: | non-woven tape |
| Sheath material: | PUR, TPU acc. to DIN VDE 0281 part 10 with rough surface |
| Sheath colour: | redlilac (RAL 4001) |

Technical data:

| | |
|---|--|
| Voltage UL: | 30 V |
| Peak operating voltage: | max. 350 V |
| Testing voltage: | 1500 V |
| Min. bending radius | fixed laying: 7,5 x d flexible application: 15 x d |
| Temperature range | UL: up to +60 °C |
| <i>fixed laying:</i> | -30/+70 °C |
| <i>flexible application:</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/17 |

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| |  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, T12 acc. to DIN VDE 0281 part 1 | 0,96 mm ² : acc. to DIN VDE 0819 part 103 (02Y11) 1,53 mm ² : PVC, T12 acc. to DIN VDE 0281 part 1 | 0,24 mm ² : acc. to DIN VDE 0819 part 103 (02Y11) 0,38 mm ² : PVC, T12 acc. to DIN VDE 0281 part 1 | 0,96 mm ² : acc. to DIN VDE 0819 part 103 (02Y11) 1,53 mm ² : PVC, T12 acc. to DIN VDE 0281 part 1 |
| Colour code: 0,24 mm ² : data pair white and light blue 0,38 mm ² : supply pair black and red | X X | – – | X X | – – |
| Colour code: 0,96 mm ² : data pair white and light blue 1,53 mm ² : supply pair black and red | – – | X X | – – | X X |
| Stranding: cores 0,24 mm ² twisted to pair and cores 0,38 mm ² twisted to pair | X X | – – | X X | – – |
| Stranding: cores 0,96 mm ² twisted to pair and cores 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 |

| item no. | type | no. of pairs x cross section mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈kg/km |
|----------|----------------------|--|-----------------|---------------------|---------------------|
| 06582241 | DN 658 (Drop Cable) | 2 x 0,24 + 2 x 0,38 | 6,1 - 7,1 | 41,2 | 74 |
| 06582781 | DN 658 (Trunk Cable) | 2 x 0,96 + 2 x 1,53 | 10,4 - 12,4 | 98,7 | 183 |
| 06592241 | DN 659 (Drop Cable) | 2 x 0,24 + 2 x 0,38 | 6,1 - 7,1 | 16,4 | 56 |
| 06592781 | DN 659 (Trunk Cable) | 2 x 0,96 + 2 x 1,53 | 10,4 - 12,4 | 58,4 | 115 |

Other dimensions and colours are possible on request.