

## DC 300 DS

Multi-conductor double shielded PVC signal and control cable  
Type AWM

very good  
EMC

SAB Data

AWM I/II A/B 80°C 300V FT1 FT2 CE



Marking for DC 300 DS 3242225:

SAB BRÖCKSKES · D-VIERSEN · 3242522 DC 300 DS 22 AWG/25c 3242225 AWM Style 2464 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

### Construction:

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| Conductor:       | tinned copper strands acc. to ASTM B 286                                                           |
| Insulation:      | semi-rigid PVC                                                                                     |
| Color code:      | US 2, see below                                                                                    |
| Stranding:       | in layers                                                                                          |
| Shielding:       | double shielding, alu. foil, tinned copper braiding with tinned drain wire (0.22 mm <sup>2</sup> ) |
| Jacket material: | PVC                                                                                                |
| Jacket color:    | grayish tan (RAL 7032)                                                                             |

### Outstanding features:

- very good EMC characteristics
- small outer diameter
- small bending radius

### Technical data:

|                                |                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------|
| Peak operating voltage:        | max. 350 V                                                                                             |
| Voltage UL/CSA:                | 300 V                                                                                                  |
| Testing voltage:               | conductor/conductor: 2000 V<br>conductor/shielding: 2000 V                                             |
| Min. bending radius:           | fixed installation: 5 x O.D.<br>free movement: 10 x O.D.                                               |
| Radiation resistance:          | 8 x 10 <sup>7</sup> cJ/kg                                                                              |
| Temperature range:             | DIN VDE -30/+70°C<br>static: -5/+70°C<br>flexible:                                                     |
| Burning characteristics:       | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2 |
| Oil resistance:                | acc. to internal standard, see page O/29                                                               |
| Approvals:                     | UR AWM, CSA AWM, CE, EAC, RoHS                                                                         |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30                                             |

| item no.   | no. of conductors | nominal outer-ø<br>± 5%<br>inch | ± 5%<br>mm | cable weight<br>≈lbs/mft |
|------------|-------------------|---------------------------------|------------|--------------------------|
| ▶ AWG 28/7 |                   |                                 |            |                          |
| 3242802    | 2                 | 0.169                           | 4.3        | 14                       |
| 3242803    | 3                 | 0.173                           | 4.4        | 16                       |
| 3242804    | 4                 | 0.181                           | 4.6        | 17                       |
| 3242805    | 5                 | 0.193                           | 4.9        | 20                       |
| 3242807    | 7                 | 0.201                           | 5.1        | 23                       |
| 3242810    | 10                | 0.236                           | 6.0        | 29                       |
| 3242812    | 12                | 0.244                           | 6.2        | 32                       |
| 3242814    | 14                | 0.252                           | 6.4        | 34                       |
| 3242818    | 18                | 0.272                           | 6.9        | 41                       |
| 3242825    | 25                | 0.311                           | 7.9        | 50                       |
| ▶ AWG 26/7 |                   |                                 |            |                          |
| 3242602    | 2                 | 0.177                           | 4.5        | 16                       |
| 3242603    | 3                 | 0.181                           | 4.6        | 17                       |
| 3242604    | 4                 | 0.193                           | 4.9        | 20                       |
| 3242605    | 5                 | 0.201                           | 5.1        | 24                       |
| 3242607    | 7                 | 0.213                           | 5.4        | 26                       |
| 3242610    | 10                | 0.252                           | 6.4        | 34                       |
| 3242612    | 12                | 0.260                           | 6.6        | 38                       |
| 3242614    | 14                | 0.268                           | 6.8        | 41                       |
| 3242618    | 18                | 0.291                           | 7.4        | 50                       |
| 3242625    | 25                | 0.335                           | 8.5        | 63                       |

| item no.   | no. of conductors | nominal outer-ø<br>± 5%<br>inch | ± 5%<br>mm | cable weight<br>≈lbs/mft |
|------------|-------------------|---------------------------------|------------|--------------------------|
| ▶ AWG 24/7 |                   |                                 |            |                          |
| 3242402    | 2                 | 0.185                           | 4.7        | 18                       |
| 3242403    | 3                 | 0.193                           | 4.9        | 20                       |
| 3242404    | 4                 | 0.201                           | 5.1        | 24                       |
| 3242405    | 5                 | 0.217                           | 5.5        | 28                       |
| 3242407    | 7                 | 0.228                           | 5.8        | 32                       |
| 3242410    | 10                | 0.272                           | 6.9        | 42                       |
| 3242412    | 12                | 0.280                           | 7.1        | 47                       |
| 3242414    | 14                | 0.287                           | 7.3        | 52                       |
| 3242418    | 18                | 0.315                           | 8.0        | 64                       |
| 3242425    | 25                | 0.366                           | 9.3        | 82                       |

| item no.   | no. of conductors | nominal outer-ø<br>± 5%<br>inch | ± 5%<br>mm | cable weight<br>≈lbs/mft |
|------------|-------------------|---------------------------------|------------|--------------------------|
| ▶ AWG 22/7 |                   |                                 |            |                          |
| 3242202    | 2                 | 0.197                           | 5.0        | 21                       |
| 3242203    | 3                 | 0.205                           | 5.2        | 25                       |
| 3242204    | 4                 | 0.217                           | 5.5        | 28                       |
| 3242205    | 5                 | 0.232                           | 5.9        | 34                       |
| 3242207    | 7                 | 0.248                           | 6.3        | 40                       |
| 3242210    | 10                | 0.295                           | 7.5        | 54                       |
| 3242212    | 12                | 0.303                           | 7.7        | 60                       |
| 3242214    | 14                | 0.315                           | 8.0        | 67                       |
| 3242218    | 18                | 0.346                           | 8.8        | 83                       |
| 3242225    | 25                | 0.406                           | 10.3       | 110                      |

Other dimensions and colors are available on request

#### US 2 color code:

#1- black, #2- white, #3- red, #4- green, #5- orange, #6- blue, #7- white-black, #8- red-black, #9- green-black, #10- orange-black, #11- blue-black, #12- black-white, #13- red-white, #14- green-white, #15- blue-white, #16- black-red, #17- white-red, #18- orange-red, #19- blue-red, #20- red-green, #21- orange-green, #22- black-white-red, #23- white-black-red, #24- red-black-white, #25- green-black-white