

Data sheet | Item number: 706-2500/301-100

System cable; for Siemens S7-1500; 2 x 16 digital inputs or outputs; Length: 1 m; Conductor cross-section: 0.14 mm<sup>2</sup>



[www.wago.com/706-2500/301-100](http://www.wago.com/706-2500/301-100)



| Color coding<br>acc. to DIN VDE 47100<br>Cable 1; Channel 0-15 | 20 poles flat<br>connector |        | PLC<br>connector |        |
|--|----------------------------|--------|------------------|--------|
|  | Pin<br>number              | Wiring | Pin<br>number    | Signal |
| White  | 1                          | 0.0    | 1                | 0      |
| Brown  | 2                          | 0.1    | 2                | 1      |
| Green  | 3                          | 0.2    | 3                | 2      |
| Yellow   | 4                          | 0.3    | 4                | 3      |
| Grey   | 5                          | 0.4    | 5                | 4      |
| Pink   | 6                          | 0.5    | 6                | 5      |
| Blue   | 7                          | 0.6    | 7                | 6      |
| Red  | 8                          | 0.7    | 8                | 7      |
| Black  | 9                          | 1.0    | 11               | 8      |
| Violet   | 10                         | 1.1    | 12               | 9      |
| Grey-Pink  | 11                         | 1.2    | 13               | 10     |
| Red-Blue   | 12                         | 1.3    | 14               | 11     |
| White-Green  | 13                         | 1.4    | 15               | 12     |
| Brown-Green  | 14                         | 1.5    | 16               | 13     |
| White-Yellow   | 15                         | 1.6    | 17               | 14     |
| Yellow-Brown   | 16                         | 1.7    | 18               | 15     |
| White-Grey   | 17                         | +24V   | 19               | L+     |
| Grey-Brown   | 18                         | 0V     | 20               | M      |
| White-Pink   | 19                         | +24V   | 9                | L+     |
| Pink-Brown   | 20                         | 0V     | 10               | M      |

  

| Color coding<br>acc. to DIN VDE 47100<br>Cable 2; Channel 16-31 | 20 poles flat<br>connector |        | PLC<br>connector |        |
|---|----------------------------|--------|------------------|--------|
|   | Pin<br>number              | Wiring | Pin<br>number    | Signal |
| White   | 1                          | 0.0    | 21               | 0      |
| Brown   | 2                          | 0.1    | 22               | 1      |
| Green   | 3                          | 0.2    | 23               | 2      |
| Yellow  | 4                          | 0.3    | 24               | 3      |
| Grey  | 5                          | 0.4    | 25               | 4      |
| Pink  | 6                          | 0.5    | 26               | 5      |
| Blue  | 7                          | 0.6    | 27               | 6      |
| Red   | 8                          | 0.7    | 28               | 7      |
| Black   | 9                          | 1.0    | 31               | 8      |
| Violet  | 10                         | 1.1    | 32               | 9      |
| Grey-Pink   | 11                         | 1.2    | 33               | 10     |
| Red-Blue  | 12                         | 1.3    | 34               | 11     |
| White-Green   | 13                         | 1.4    | 35               | 12     |
| Brown-Green   | 14                         | 1.5    | 36               | 13     |
| White-Yellow  | 15                         | 1.6    | 37               | 14     |
| Yellow-Brown  | 16                         | 1.7    | 38               | 15     |
| White-Grey  | 17                         | +24V   | 39               | L+     |
| Grey-Brown  | 18                         | 0V     | 40               | M      |
| White-Pink  | 19                         | +24V   | 29               | L+     |
| Pink-Brown  | 20                         | 0V     | 30               | M      |

Data  
Notes

Note When using more than 10 wires, the maximum current per wire must be reduced to 0.7 A.

Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?  
 We are always happy to take your call at +49 (571) 887-44222.



## Electrical data

|                         |                                  |
|-------------------------|----------------------------------|
| Inputs/outputs          | 2 x 16 digital inputs or outputs |
| Operating voltage       | ≤ AC/DC 35 V                     |
| Current per wire (max.) | 1 A                              |

## Compatibility

### Siemens

|                 |   |
|-----------------|---|
| Siemens S7-1500 | 6ES7 521-1BL00-0AB0<br>6ES7 522-1BL00-0AB0<br>6ES7 522-1BL01-0AB0 |
|-----------------|---|

## Connection data

|            |                   |
|------------|-------------------|
| Cable type | LIYY              |
| Color code | per DIN VDE 47100 |

### Connection 1

|                    |   |
|--------------------|---|
| Connector          | Pluggable connector per DIN 41651; female connector |
| Pole number 1      | 20  |
| Connection type 1  | System  |
| Wire cross-section | 0.14 mm <sup>2</sup>                                |

### Connection 2

|                   |                             |
|-------------------|-----------------------------|
| Connector 2       | Siemens 6ES7-592-1BM00-0XB0 |
| Pole number 2     | 20                          |
| Connection type 2 | System                      |

### Connection 3

|                   |        |
|-------------------|--------|
| Pole number 3     | 40     |
| Connection type 3 | System |

## Physical data

|              |     |
|--------------|-----|
| Cable length | 1 m |
|--------------|-----|

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## Material Data

|        |       |
|--------|-------|
| Weight | 278 g |
|--------|-------|

## Environmental requirements

|                                 |                |
|---------------------------------|----------------|
| Ambient temperature (operation) | -20 ... +50 °C |
|---------------------------------|----------------|

## Commercial data

|                       |               |
|-----------------------|---------------|
| ETIM 8.0              | EC000237      |
| ETIM 7.0              | EC000237      |
| PU (SPU)              | 1 pcs         |
| Packaging type        | bag           |
| Country of origin     | FR            |
| GTIN                  | 4055143663328 |
| Customs tariff number | 85444290900   |

## Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

## Downloads

### Documentation

#### System Description

|  |                 |          |
|--|-----------------|----------|
| WAGO System Wiring, Selection Guide<br>This guide will help you select the appropriate interface modules and system cables for the controller you are using. | pdf<br>545.9 kB | Download |
|--|-----------------|----------|

## Environmental Product Compliance

### Compliance Search

|   |     |          |
|---|-----|----------|
| Environmental Product Compliance 706-2500/301-100<br>System cable; for Siemens S7-1500; 2 x 16 digital inputs or outputs; Length: 1 m;<br>Conductor cross-section: 0.14 mm <sup>2</sup> | URL | Download |
|---|-----|----------|

## Installation Notes

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