

# SAC-2P-100,0-913 - Bus system cable



1416130

<https://www.phoenixcontact.com/us/products/1416130>

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By the meter, Bus system cable, PROFIBUS PA (31.25 kbps), FOUNDATION Fieldbus (31.25 kbps), shielded, PVC, black, 2-wire (2xAWG18/7 + 1xAWG20/7), color single wire: red, green, cable length: 100 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416130                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF19                           |
| Product key                          | AF1LEA                         |
| GTIN                                 | 4055626063157                  |
| Weight per piece (including packing) | 7,967 g                        |
| Weight per piece (excluding packing) | 7,967 g                        |
| Customs tariff number                | 85444995                       |
| Country of origin                    | NL                             |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable by the meter |
| Number of positions | 2                       |
| Shielded            | yes                     |

### Electrical properties

|                     |            |
|---------------------|------------|
| Transmission medium | Copper     |
| Transmission speed  | 31.25 kbps |

### Interfaces

|                      |                                 |
|----------------------|---------------------------------|
| Signal type/category | PROFIBUS PA, 31.25 kbps         |
|                      | FOUNDATION Fieldbus, 31.25 kbps |

### Cable/line

|              |       |
|--------------|-------|
| Cable length | 100 m |
|--------------|-------|

### PROFIBUS PA [913]

|                                 |  |
|---------------------------------|--|
| UL AWM Style                    | 2464   |
| Number of positions             | 2  |
| Shielded                        | yes  |
| Cable type                      | PROFIBUS PA [913]  |
| Conductor structure             | 2xAWG18/7 + 1xAWG20/7  |
| Signal speed                    | 0.77 c   |
| Conductor structure signal line | 7x 0.40 mm   |
| AWG signal line                 | 18   |
| Conductor cross-section         | 2x 0.75 mm <sup>2</sup> (Signal line)<br>1x 0.5 mm <sup>2</sup> (Drain wire) |
| Wire diameter incl. insulation  | 2.5 mm ±0.05 mm  |
| External cable diameter         | 7.80 mm  |
| Outer sheath, material          | PVC  |
| External sheath, color          | black  |
| Conductor material              | Tin-plated Cu litz wires   |
| Material wire insulation        | Foamed PE  |
| Single wire, color              | red, green   |
| Thickness, insulation           | 0.65 mm  |
| Thickness, outer sheath         | 1.00 mm  |
| Twisted pairs                   | 2 cores to the pair  |
| Overall twist                   | One pair with one drain wire and fillers for core                            |
| Optical shield covering         | 70 %   |
| Max. conductor resistance       | 20.5 Ω/km (Signal line)<br>9 Ω/km (shield)                                   |
| Cable capacity                  | 80 nF/km (Line-line)   |

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|                                    |   |
|------------------------------------|---|
|                                    | 4 nF/km (Line-shield)                             |
| Cable impedance                    | 100 $\Omega$ $\pm$ 20 % (At 31.25 kHz)            |
| Nominal voltage, cable             | 300 V   |
| Tensile strength                   | 80 N  |
| Flame resistance                   | according to IEC 60332-1                          |
| Resistance to oil                  | According to ICEA S82-552                         |
| Other resistance                   | UV resistant (according to UL 1581, Section 1200) |
| Ambient temperature (operation)    | -30 °C ... 75 °C                                  |
| Ambient temperature (installation) | -5 °C ... 80 °C                                   |

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1416130>



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00371

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27061801 |
| ECLASS-15.0 | 27061801 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003249 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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