

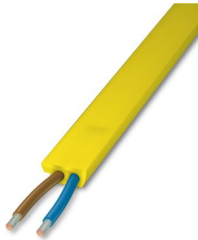
# VS-ASI-FC-PVC-UL-YE 100M - Flat cable



1404906

<https://www.phoenixcontact.com/us/products/1404906>

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AS-Interface PVC flat conductor with UL in yellow, 2 x 1.5 mm<sup>2</sup>, 100 m ring

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1404906                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF11                           |
| Product key                          | AF1LFA                         |
| GTIN                                 | 4046356327633                  |
| Weight per piece (including packing) | 6,541 g                        |
| Weight per piece (excluding packing) | 6,025 g                        |
| Customs tariff number                | 85444995                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable by the meter |
| Sensor type         | AS-Interface            |
| Number of positions | 2                       |

### Electrical properties

|                    |          |
|--------------------|----------|
| Transmission speed | 167 kbps |
|--------------------|----------|

### Interfaces

|                      |                        |
|----------------------|------------------------|
| Signal type/category | AS-Interface, 167 kbps |
|----------------------|------------------------|

### Cable/line

|                                             |                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable length                                | 100 m                                                                                                                                                                                                                                                                                          |
| Cable weight                                | 73 kg/km                                                                                                                                                                                                                                                                                       |
| Number of positions                         | 2                                                                                                                                                                                                                                                                                              |
| Shielded                                    | no                                                                                                                                                                                                                                                                                             |
| Conductor structure                         | 2 x 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                        |
| Conductor type                              | Flat cable                                                                                                                                                                                                                                                                                     |
| Conductor structure signal line             | 84x 0.15 mm                                                                                                                                                                                                                                                                                    |
| AWG signal line                             | 16                                                                                                                                                                                                                                                                                             |
| Conductor cross section                     | 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                            |
| Wire diameter incl. insulation              | 2.5 mm                                                                                                                                                                                                                                                                                         |
| Outer sheath, material                      | PVC                                                                                                                                                                                                                                                                                            |
| External sheath, color                      | lemon yellow RAL 1012                                                                                                                                                                                                                                                                          |
| Conductor material                          | Tin-plated Cu litz wires                                                                                                                                                                                                                                                                       |
| Material wire insulation                    | TPE                                                                                                                                                                                                                                                                                            |
| Single wire, color                          | brown, blue                                                                                                                                                                                                                                                                                    |
| Thickness, insulation                       | approx. 0.50 mm                                                                                                                                                                                                                                                                                |
| Max. conductor resistance                   | ≤ 13.7 Ω/km                                                                                                                                                                                                                                                                                    |
| Insulation resistance                       | ≥ 1 MΩ*km                                                                                                                                                                                                                                                                                      |
| Nominal voltage, cable                      | 32 V                                                                                                                                                                                                                                                                                           |
| Test voltage                                | 2000 V                                                                                                                                                                                                                                                                                         |
| Smallest bending radius, fixed installation | ≥ 6 mm (one-time)                                                                                                                                                                                                                                                                              |
| Dynamic load capacity (bending)             | Max. bending cycles: 8000000, Bending radius: 75 mm,<br>Traversing direction: horizontal, above the broadside, Traversing<br>rate: 4 m/s, Acceleration: 4 m/s <sup>2</sup><br><br>Max. bending cycles: 10000000, Bending radius: 50 mm,<br>Traversing direction: vertical, above the broadside |
| Halogen-free                                | no                                                                                                                                                                                                                                                                                             |
| Flame resistance                            | UL 1581, Sec. 1061 (Cable Flame)<br>UL 1581, Sec. 1060 (FT-1)<br>UL 1685 (CSA FT 4)                                                                                                                                                                                                            |

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|                                 |                                                   |
|---------------------------------|---------------------------------------------------|
|                                 | IEC 60332-1-2                                     |
| Resistance to oil               | UL 1581, Sec. 480 (60 °C)                         |
| Other resistance                | UV resistant                                      |
| Special properties              | UL type CL2 accord. to UL 13 and NEC Article 725  |
|                                 | UL type CMG accord. to UL 444 and NEC Article 800 |
| Ambient temperature (operation) | -30 °C ... 90 °C (cable, fixed installation)      |
|                                 | -20 °C ... 90 °C (Cable, flexible installation)   |

## Environmental and real-life conditions

### Ambient conditions

|                                                                |                                       |
|----------------------------------------------------------------|---------------------------------------|
| Ambient temperature (operation) (Cable, flexible installation) | -20 °C ... 90 °C (Flexibly installed) |
| Ambient temperature (operation) (Cable, fixed installation)    | -30 °C ... 90 °C (fixed routing)      |
| Ambient temperature (storage/transport)                        | -30 °C ... 90 °C                      |

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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% |
|-------------------------------------|----------------------------|

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 89.99 kg CO2e |
|---------|---------------|

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)