

# VS-ASI-FC-TPE-UL-BK 1000M - Flat cable



1434675

<https://www.phoenixcontact.com/us/products/1434675>

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AS-Interface TPE flat conductor with UL in black, for additional power supply, 2 x 1.5 mm<sup>2</sup>, 1000 m disposable drum

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1434675                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF11                           |
| Product key                          | AF1LFA                         |
| GTIN                                 | 4046356349284                  |
| Weight per piece (including packing) | 222.22 g                       |
| Weight per piece (excluding packing) | 222.22 g                       |
| Customs tariff number                | 85444995                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable by the meter |
| Number of positions | 2                       |
| Shielded            | no                      |

### Electrical properties

|                       |      |
|-----------------------|------|
| Rated voltage (III/3) | 32 V |
| Rated surge voltage   | 2 kV |

### Interfaces

|                      |              |
|----------------------|--------------|
| Signal type/category | AS-Interface |
|----------------------|--------------|

### Dimensions

|        |       |
|--------|-------|
| Width  | 10 mm |
| Height | 4 mm  |

### Cable/line

|   |   |
|---|---|
| Cable length                                | 1000 m  |
| Cable weight                                | 64 kg/km  |
| Number of positions                         | 2   |
| Shielded                                    | no  |
| Conductor structure                         | 2 x 1.5 mm <sup>2</sup>   |
| Conductor type                              | Flat cable  |
| Conductor structure, voltage supply         | 84x 0.15 mm   |
| AWG power supply                            | 16  |
| Conductor cross-section                     | 1.5 mm <sup>2</sup>   |
| Wire diameter incl. insulation              | 2.5 mm  |
| Outer sheath, material                      | TPE   |
| External sheath, color                      | black RAL 9005  |
| Conductor material                          | Bare 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                      | 48 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>Max. bending cycles: 10000000, Bending radius: 50 mm, |

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|                                 |   |
|---------------------------------|---|
|                                 | Traversing direction: vertical, above the broadside   |
| Halogen-free                    | no  |
| Flame resistance                | UL 1581, Sec. 1061 (Cable Flame)<br>IEC 60332-1-2   |
| Resistance to oil               | UL 1581, Sec. 480 (60 °C)   |
| Other resistance                | UV resistant  |
| Special properties              | UL-Style 2103<br>CSA-File LL55255-42  |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation)<br>-30 °C ... 105 °C (Cable, flexible installation) |

## FO cable

|                     |        |
|---------------------|--------|
| Transmission medium | Copper |
|---------------------|--------|

## Mechanical properties

|                    |                         |
|--------------------|-------------------------|
| Duty cycle testing | suitable for drag chain |
|--------------------|-------------------------|

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (operation)         | -40 °C ... 105 °C (fixed routing)<br>-30 °C ... 105 °C (Flexibly installed) |
| Ambient temperature (storage/transport) | -40 °C ... 105 °C   |
| Ambient temperature (assembly)          | -30 °C ... 105 °C   |

## Standards and regulations

### Testing

|                    |                         |
|--------------------|-------------------------|
| Duty cycle testing | suitable for drag chain |
|--------------------|-------------------------|

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121707 |
|-------------|----------|

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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-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

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

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