1408746

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Network cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), free cable end, on Socket straight M12, coding: A / IP67, cable length: 10 m

## Commercial data

| Item number | 1408746 |
| :--- | :--- |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF 1 HHB |
| Product key | 4046356828604 |
| GTIN | 497.4 g |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 85444290 |
| Customs tariff number | US |
| Country of origin |  |

## Technical data

Product properties

| Product type | Data cable preassembled |
| :--- | :--- |
| Sensor type | Ethernet |
| Number of positions | 8 |
| Application | Standard, U.S. cables |
| Shielded | yes |
| Coding | A |

Interfaces

| Bus system | Ethernet |
| :--- | :--- |
| Signal type/category | Ethernet CAT5 (based on IEC 11801), 1 Gbps |

Signaling

| Status display | No |
| :--- | :--- |
| Status display present | No |

Electrical properties

| Nominal voltage $U_{N}$ | 48 V AC |
| :--- | :--- |
|  | 60 V DC |

Nominal current $\mathrm{I}_{\mathrm{N}} \quad 2 \mathrm{~A}$

Transmission medium
Transmission characteristics (category)
Copper
CAT5 (IEC 11801:2002)

Material specifications

| Seal material | NBR |
| :--- | :--- |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Contact material | CuSn |
| Contact surface material | $\mathrm{Ni} / \mathrm{Au}$ |
| Contact carrier material | TPU GF |
| Material for screw connection | Zinc die-cast, nickel-plated |

## Connector

| Connection 1 |  |
| :--- | :--- |
| Type | free cable end |
| Connection 2 |  |
| Type | Socket straight M12 / IP67 |
| Coding type | (Standard) |
| Degree of protection | IP67 |

## Cable/line

Cable length ..... 10 m

Ethernet flexible CAT5, 4-pair [94B]

## Dimensional drawing

Cable weight
UL AWM Style
Number of positions
Shielded
Cable type
Conductor structure
Signal runtime
Conductor structure signal line
AWG signal line
Conductor cross section
Wire diameter incl. insulation
External cable diameter
Outer sheath, material
External sheath, color
Conductor material
Material wire insulation
Single wire, color

Thickness, outer sheath
Twisted pairs
Overall twist
Optical shield covering
Insulation resistance
Coupling resistance
Loop resistance
Wave impedance
Cable capacity
Nominal voltage, cable
Test voltage Core/Core
Test voltage Core/Shield
Minimum bending radius, fixed installation
Minimum bending radius, flexible installation
Smallest bending radius, fixed installation
Smallest bending radius, movable installation


## 47 kg/km

$20963\left(80^{\circ} \mathrm{C} / 30 \mathrm{~V}\right)$
8
yes
Ethernet flexible CAT5, 4-pair [94B]
4x2xAWG26/7, SF/UTP
$5.3 \mathrm{~ns} / \mathrm{m}$
$7 \times 0.16 \mathrm{~mm}$
26
$4 \times 2 \times 0.14 \mathrm{~mm}^{2}$
0.96 mm
$6.40 \mathrm{~mm} \pm 0.2 \mathrm{~mm}$
PUR
water blue RAL 5021
Bare Cu litz wires
Foamed PE
white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
1.05 mm

2 cores to the pair
4 pairs for core
70 \%
$\geq 5 \mathrm{G} \Omega^{*} \mathrm{~km}$
$\leq 100.00 \mathrm{~m} \Omega / \mathrm{m}$ (at 10 MHz )
$\leq 290.00 \Omega / \mathrm{km}$
$100 \Omega \pm 5 \Omega$ (at 100 MHz )
$48 \mathrm{nF} / \mathrm{km}$ (at 1 kHz )
$\leq 100$ V
700 V (50 Hz, 1 min.)
700.00 V (50 Hz, 1 min.)
$4 \times D$
$8 \times \mathrm{D}$
26 mm
52 mm
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| Tensile strength | $\leq 100 \mathrm{~N}$ |
| :---: | :---: |
| Near end crosstalk attenuation (NEXT) | 71.3 dB (with 1 MHz ) |
|  | 62.3 dB (at 4 MHz ) |
|  | 56.3 dB (at 10 MHz ) |
|  | 53.2 dB (at 16 MHz ) |
|  | 51.8 dB (at 20 MHz ) |
|  | 48.9 dB (at 31.25 MHz ) |
|  | 44.4 dB (at 62.5 MHz ) |
|  | 41.3 dB (at 100 MHz ) |
| Power-summated near end crosstalk attenuation (PSNEXT) | 62.3 dB (with 1 MHz ) |
|  | 53.3 dB (at 4 MHz ) |
|  | 47.3 dB (at 10 MHz ) |
|  | 44.2 dB (at 16 MHz ) |
|  | 42.8 dB (at 20 MHz ) |
|  | 39.9 dB (at 31.25 MHz ) |
|  | 35.4 dB (at 62.5 MHz ) |
|  | 32.3 dB (at 100 MHz ) |
| Return attenuation (RL) | 23 dB (at 4 MHz ) |
|  | 24.1 dB (at 8 MHz ) |
|  | 25 dB (at 10 MHz ) |
|  | 25 dB (at 16 MHz ) |
|  | 25 dB (at 20 MHz ) |
|  | 23.6 dB (at 31.25 MHz ) |
|  | 21.5 dB (at 62.5 MHz ) |
|  | 20.1 dB (at 100 MHz ) |
| Shield attenuation | 3.2 dB (with 1 MHz ) |
|  | 6 dB (at 4 MHz ) |
|  | 9.5 dB (at 10 MHz ) |
|  | 12.1 dB (at 16 MHz ) |
|  | 13.6 dB (at 20 MHz ) |
|  | 17.1 dB (at 31.25 MHz ) |
|  | 24.8 dB (at 62.5 MHz ) |
|  | 32 dB (at 100 MHz ) |
| Halogen-free | according to IEC 60754-1 |
| Flame resistance | according to IEC 60332-1-2 |
| Resistance to oil | in accordance with EN 60811-2-1 |
| Ambient temperature (operation) | $-40^{\circ} \mathrm{C} \ldots 80^{\circ} \mathrm{C}$ (cable, fixed installation) |
|  | $-20^{\circ} \mathrm{C} \ldots 80^{\circ} \mathrm{C}$ (Cable, flexible installation) |
| Ambient temperature (installation) | $-20^{\circ} \mathrm{C} \ldots 80^{\circ} \mathrm{C}$ |

Environmental and real-life conditions

Ambient conditions

NBC- 10,0-94B/FS SCO US - Network cable

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Degree of protection
Ambient temperature (operation)

## IP67

IP65/IP67
$-25^{\circ} \mathrm{C} \ldots 85^{\circ} \mathrm{C}$ (M12 connector)

Standards and regulations

M12

| Standard designation | M12 connector |
| :--- | :--- |
| Standards/specifications | IEC 61076-2-101 |

NBC- 10, $0-94 B / F S$ SCO US - Network cable
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## Classifications

| ECLASS |  |
| :--- | :--- |
| ECLASS-11.0 | 27060307 |
| ECLASS-12.0 | 27060307 |
| ECLASS-13.0 | 27060307 |
| ETIM |  |
| ETIM 9.0 | EC001855 |
| UNSPSC |  |
| UNSPSC 21.0 | 26121600 |

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## Environmental product compliance

| REACh SVHC |
| :--- |
| China RoHS |

Lead 7439-92-1

Environmentally Friendly Use Period = 50 years
For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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