

# NBC-R4ACS/2,0-93M/OE - Patch cable



1113334

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Patch cable, RJ45/IP20 straight, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, connection cross section: AWG 23- 22, PROFINET, 1x4xAWG22/7, SF/TQ, green RAL 6018

## Your advantages

- Perfect for industrial applications
- PVC cable for flexible installations
- Worldwide approval with CE, UL, WEEE, and EAC
- Secure connection and disconnection with reliable locking clip protection
- Ideal EMC properties, thanks to 360° shielding
- Simultaneous power transmission with PoE++
- Resistant to shock and vibrations, thanks to robust molding
- High-speed data transmission with up to 100 Mbps (CAT5)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1113334       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | ABNABA        |
| Product key                          | ABNABA        |
| GTIN                                 | 4063151036065 |
| Weight per piece (including packing) | 147,2 g       |
| Weight per piece (excluding packing) | 138,312 g     |
| Customs tariff number                | 85444210      |
| Country of origin                    | PL            |

## Technical data

### Product properties

|                     |                          |
|---------------------|--------------------------|
| Product family      | RJ45 INDUSTRIAL PN4 CAT5 |
| Sensor type         | PROFINET                 |
| Number of positions | 4                        |
| Shielded            | yes                      |

### Electrical properties

|                                         |          |
|-----------------------------------------|----------|
| Rated voltage (III/2)                   | 72 V     |
| Rated current                           | 1.75 A   |
| Insulation resistance                   | > 1 TΩ   |
| Contact resistance                      | < 20 mΩ  |
| Transmission speed                      | 100 Mbps |
| Transmission characteristics (category) | CAT5     |
| Transmission speed                      | 100 Mbps |

### Dimensions

|        |         |
|--------|---------|
| Width  | 13.8 mm |
| Height | 14.8 mm |
| Length | 44.2 mm |

### Connector

#### Connection 1

|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Type                                   | RJ45 Plug, straight, 4-position                            |
| Number of positions                    | 4                                                          |
| Signal type/category                   | PROFINET CAT5 (IEC 11801), 100 Mbps<br>EtherCAT®, 100 Mbps |
| Insertion/withdrawal cycles            | ≥ 750                                                      |
| Insertion force                        | 50 N (per signal contact)                                  |
| Withdrawal force                       | 30 N (per signal contact)                                  |
| Overvoltage category                   | I                                                          |
| Degree of pollution                    | 2                                                          |
| Material Contact                       | CuSn6                                                      |
| Material Contact surface               | Ni/Au                                                      |
| Material Contact carrier               | PC                                                         |
| Material Housing                       | PP                                                         |
| Color (Housing)                        | black                                                      |
| Flammability rating according to UL 94 | V2                                                         |
| Degree of protection                   | IP20                                                       |
| Ambient temperature (operation)        | -40 °C ... 85 °C                                           |

#### Connection 2

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|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

## Cable/line

|              |        |
|--------------|--------|
| Cable length | 2.00 m |
|--------------|--------|

### PROFINET stranded CAT5 [93M]

|                                               |                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------|
| Dimensional drawing                           |  |
| UL AWM Style                                  | 21238 (80 °C / 600 V)                                                              |
| Number of positions                           | 4                                                                                  |
| Shielded                                      | yes                                                                                |
| Cable type                                    | PROFINET stranded CAT5 [93M]                                                       |
| Conductor structure                           | 1x4xAWG22/7, SF/TQ                                                                 |
| AWG signal line                               | 22                                                                                 |
| Conductor cross-section                       | 4x 0.34 mm²                                                                        |
| Wire diameter incl. insulation                | 1.56 mm ±0.05 mm                                                                   |
| External cable diameter                       | 6.50 mm ±0.2 mm                                                                    |
| Outer sheath, material                        | PUR                                                                                |
| External sheath, color                        | green RAL 6018                                                                     |
| Conductor material                            | Tin-plated Cu litz wires                                                           |
| Material wire insulation                      | PE                                                                                 |
| Single wire, color                            | white, yellow, blue, orange                                                        |
| Overall twist                                 | Star quad                                                                          |
| Optical shield covering                       | 85 %                                                                               |
| Insulation resistance                         | ≥ 500 MΩ*km                                                                        |
| Loop resistance                               | ≤ 120.00 Ω/km                                                                      |
| Wave impedance                                | 100 Ω ±15 Ω (at 100 MHz)                                                           |
| Nominal voltage, cable                        | ≤ 100 V                                                                            |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)                                                             |
| Test voltage Core/Shield                      | 2000.00 V (50 Hz, 1 min.)                                                          |
| Minimum bending radius, fixed installation    | 5 x D                                                                              |
| Minimum bending radius, flexible installation | 10 x D                                                                             |
| Halogen-free                                  | according to IEC 60754-1                                                           |
| Flame resistance                              | according to CSA C 22.2 No. 210-FT1                                                |
| Ambient temperature (operation)               | -40 °C ... 80 °C<br>-40 °C ... 80 °C (Cable, flexible installation)                |

## Standards and regulations

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|                          |             |
|--------------------------|-------------|
| Standards/specifications | IEC 60603-7 |
|--------------------------|-------------|

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## Approvals

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|  <b>cUL Recognized</b><br>Approval ID: E335024-V2S6 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                |                       |                       |                   |                             |
|                                                                                                                                      | 57 V                  | 1.75 A                | -                 | -                           |

|  <b>UL Recognized</b><br>Approval ID: E335024-V2S6 |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                     | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                               |                       |                       |                   |                             |
|                                                                                                                                     | 57 V                  | 1.75 A                | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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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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PHOENIX CONTACT B.V.  
Hengelder 56 6902 PA Zevenaar  
Postbus 246 6900 AE Zevenaar  
(0316) 59 17 20  
[sales@phoenixcontact.nl](mailto:sales@phoenixcontact.nl)