

1323374  
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Network cable, Ethernet CAT6<sub>A</sub> (10 Gbps) CAT6<sub>A</sub> (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Socket straight M12, coding: X / IP67, on Socket straight M12, coding: X / IP67, cable length: 4 m

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1323374                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 25 pc                          |
| Note                                 | Made to order (non-returnable) |
| Product key                          | AF1CMJ                         |
| GTIN                                 | 4063151612528                  |
| Weight per piece (including packing) | 222.9 g                        |
| Weight per piece (excluding packing) | 222.9 g                        |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                      |                         |
|----------------------|-------------------------|
| Product type         | Data cable preassembled |
| Application          | Standard                |
| Number of positions  | 8                       |
| No. of cable outlets | 1                       |
| Shielded             | yes                     |
| Coding               | X                       |

### Interfaces

|                      |                                      |
|----------------------|--------------------------------------|
| Bus system           | Ethernet                             |
| Signal type/category | Ethernet CAT6 <sub>A</sub> , 10 Gbps |

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | no |

### Electrical properties

|                                         |                   |
|-----------------------------------------|-------------------|
| Nominal voltage $U_N$                   | 48 V AC           |
|                                         | 60 V DC           |
| Nominal current $I_N$                   | 0.5 A             |
| Transmission medium                     | Copper            |
| Transmission speed                      | 10 Gbps           |
| Transmission characteristics (category) | CAT6 <sub>A</sub> |

### Connector

#### Connection 1

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | Socket straight M12 / IP67                              |
| Number of positions             | 8                                                       |
| Coding type                     | X (Data)                                                |
| Handle color                    | black                                                   |
| Material                        | CuZn (Contact)                                          |
|                                 | Ni/Au (Contact surface)                                 |
|                                 | PA 6.6 (Contact carrier)                                |
|                                 | TPU, hardly inflammable, self-extinguishing (Grip body) |
|                                 | Zinc die-cast, nickel-plated (Screw connection)         |
| Insertion/withdrawal cycles     | ≥ 100                                                   |
| Insulation resistance           | ≥ 100 MΩ                                                |
| Tightening torque               | 0.4 Nm                                                  |
| Degree of protection            | IP67                                                    |
| Ambient temperature (operation) | -25 °C ... 90 °C                                        |

#### Connection 2

# NBC-M12FSX/4,0-94F/M12FSX - Network cable



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|                                 |                                                                                                                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                            | Socket straight M12 / IP67                                                                                                                                                          |
| Number of positions             | 8                                                                                                                                                                                   |
| Coding type                     | X (Data)                                                                                                                                                                            |
| Handle color                    | black                                                                                                                                                                               |
| Material                        | CuZn (Contact)<br>Ni/Au (Contact surface)<br>PA 6.6 (Contact carrier)<br>TPU, hardly inflammable, self-extinguishing (Grip body)<br>Zinc die-cast, nickel-plated (Screw connection) |
| Insertion/withdrawal cycles     | ≥ 100                                                                                                                                                                               |
| Insulation resistance           | ≥ 100 MΩ                                                                                                                                                                            |
| Tightening torque               | 0.4 Nm                                                                                                                                                                              |
| Degree of protection            | IP67                                                                                                                                                                                |
| Ambient temperature (operation) | -25 °C ... 90 °C                                                                                                                                                                    |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 4 m |
|--------------|-----|

### Ethernet 10 Gbit [94F]

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Cable weight                    | 42 kg/km                                                                             |
| UL AWM Style                    | 20963 (80°C/30 V)                                                                    |
| Number of positions             | 8                                                                                    |
| Shielded                        | yes                                                                                  |
| Cable type                      | Ethernet 10 Gbit [94F]                                                               |
| Conductor structure             | 4x2xAWG26/7; S/FTP                                                                   |
| Signal runtime                  | 5.13 ns/m                                                                            |
| Conductor structure signal line | 7x 0.16 mm                                                                           |
| AWG signal line                 | 26                                                                                   |
| Conductor cross-section         | 4x 2x 0.14 mm²                                                                       |
| Wire diameter incl. insulation  | 1.04 mm                                                                              |
| External cable diameter         | 6.40 mm ±0.2 mm                                                                      |
| Outer sheath, material          | PUR                                                                                  |
| External sheath, color          | water blue RAL 5021                                                                  |
| Conductor material              | Bare Cu litz wires                                                                   |
| Material wire insulation        | Foamed PE                                                                            |
| Single wire, color              | white/blue-blue, white/orange-orange, white/green-green,                             |

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|                                                        |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|
|                                                        | white/brown-brown                                      |
| Thickness, outer sheath                                | 0.65 mm                                                |
| Twisted pairs                                          | 2 cores to the pair                                    |
| Type of pair shielding                                 | Aluminum-lined foil                                    |
| Overall twist                                          | 4 pairs for core                                       |
| Optical shield covering                                | 70 %                                                   |
| Insulation resistance                                  | $\geq 500 \text{ M}\Omega \cdot \text{km}$             |
| Loop resistance                                        | $\leq 290.00 \text{ }\Omega/\text{km}$                 |
| Wave impedance                                         | $100 \text{ }\Omega \pm 5 \text{ }\Omega$ (at 100 MHz) |
| Cable capacity                                         | 47 nF/km                                               |
| Nominal voltage, cable                                 | $\leq 100 \text{ V}$                                   |
| Test voltage Core/Core                                 | 700 V (50 Hz, 1 min.)                                  |
| Test voltage Core/Shield                               | 700.00 V (50 Hz, 1 min.)                               |
| Minimum bending radius, fixed installation             | 4 x D                                                  |
| Minimum bending radius, flexible installation          | 8 x D                                                  |
| Smallest bending radius, fixed installation            | 26 mm                                                  |
| Smallest bending radius, movable installation          | 52 mm                                                  |
| Tensile strength                                       | $\leq 100 \text{ N}$                                   |
| Near end crosstalk attenuation (NEXT)                  | 75.3 dB (with 1 MHz)                                   |
|                                                        | 66.3 dB (at 4 MHz)                                     |
|                                                        | 61.8 dB (at 8 MHz)                                     |
|                                                        | 60.3 dB (at 10 MHz)                                    |
|                                                        | 57.2 dB (at 16 MHz)                                    |
|                                                        | 55.8 dB (at 20 MHz)                                    |
|                                                        | 54.3 dB (at 25 MHz)                                    |
|                                                        | 52.8 dB (at 31.25 MHz)                                 |
|                                                        | 48.4 dB (at 62.5 MHz)                                  |
|                                                        | 45.3 dB (at 100 MHz)                                   |
|                                                        | 40.8 dB (at 200 MHz)                                   |
|                                                        | 39.3 dB (at 250 MHz)                                   |
|                                                        | 38.1 dB (at 300 MHz)                                   |
|                                                        | 38.1 dB (at 400 MHz)                                   |
|                                                        | 38.1 dB (at 500 MHz)                                   |
| Power-summated near end crosstalk attenuation (PSNEXT) | 72.3 dB (with 1 MHz)                                   |
|                                                        | 63.3 dB (at 4 MHz)                                     |
|                                                        | 58.8 dB (at 8 MHz)                                     |
|                                                        | 57.3 dB (at 10 MHz)                                    |
|                                                        | 54.2 dB (at 16 MHz)                                    |
|                                                        | 52.8 dB (at 20 MHz)                                    |
|                                                        | 51.3 dB (at 25 MHz)                                    |
|                                                        | 49.9 dB (at 31.25 MHz)                                 |
|                                                        | 45.4 dB (at 62.5 MHz)                                  |
|                                                        | 42.3 dB (at 100 MHz)                                   |
|                                                        | 37.8 dB (at 200 MHz)                                   |

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|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
|                                    | 36.3 dB (at 250 MHz)                            |
|                                    | 35.1 dB (at 300 MHz)                            |
|                                    | 33.3 dB (at 400 MHz)                            |
|                                    | 31.8 dB (at 500 MHz)                            |
| Return attenuation (RL)            | 20 dB (with 1 MHz)                              |
|                                    | 23 dB (at 4 MHz)                                |
|                                    | 24.5 dB (at 8 MHz)                              |
|                                    | 25 dB (at 10 MHz)                               |
|                                    | 25 dB (at 16 MHz)                               |
|                                    | 25 dB (at 20 MHz)                               |
|                                    | 24.2 dB (at 25 MHz)                             |
|                                    | 23.3 dB (at 31.25 MHz)                          |
|                                    | 20.7 dB (at 62.5 MHz)                           |
|                                    | 19 dB (at 100 MHz)                              |
|                                    | 16.4 dB (at 200 MHz)                            |
|                                    | 15.6 dB (at 250 MHz)                            |
|                                    | 15.6 dB (at 300 MHz)                            |
|                                    | 15.6 dB (at 400 MHz)                            |
|                                    | 15.6 dB (at 500 MHz)                            |
| Shield attenuation                 | 3.1 dB (with 1 MHz)                             |
|                                    | 5.7 dB (at 4 MHz)                               |
|                                    | 8 dB (at 8 MHz)                                 |
|                                    | 8.9 dB (at 10 MHz)                              |
|                                    | 11.2 dB (at 16 MHz)                             |
|                                    | 12.6 dB (at 20 MHz)                             |
|                                    | 14.1 dB (at 25 MHz)                             |
|                                    | 15.8 dB (at 31.25 MHz)                          |
|                                    | 22.5 dB (at 62.5 MHz)                           |
|                                    | 28.7 dB (at 100 MHz)                            |
|                                    | 41.4 dB (at 200 MHz)                            |
|                                    | 46.6 dB (at 250 MHz)                            |
|                                    | 51.4 dB (at 300 MHz)                            |
|                                    | 60.1 dB (at 400 MHz)                            |
|                                    | 67.9 dB (at 500 MHz)                            |
|                                    | ≥ 80.00 dB (at 30 ... 100 MHz)                  |
| Halogen-free                       | according to IEC 60754-1                        |
| Flame resistance                   | according to IEC 60332-1-2                      |
|                                    | in accordance with UN ECE-R 118.03              |
| Resistance to oil                  | in accordance with DIN EN 60811-2-1             |
| Ambient temperature (operation)    | -40 °C ... 80 °C (cable, fixed installation)    |
|                                    | -20 °C ... 80 °C (Cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 80 °C                                |

Environmental and real-life conditions

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### Ambient conditions

|                      |           |
|----------------------|-----------|
| Degree of protection | IP65      |
|                      | IP67      |
|                      | IP65/IP67 |

### Standards and regulations

#### M12

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-109 |

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### 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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