

Bus system cable - NBC-MS/ 3,0-93K/R4AQ SCO - 1420517


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Assembled Sercos III cable, shielded, star quad, 22 AWG stranded (7-wire), RAL 3020 (traffic red), M12 connector, SPEEDCON, 4-pos. to RJ45 connector/IP20, length: 3 m



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN |  4 055626 225296 |
| GTIN | 4055626225296 |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 3 m |
|-----------------|-----|

Ambient conditions

| | |
|---------------------------------|--|
| Ambient temperature (operation) | -10 °C ... 60 °C (cable, fixed installation) |
| | -5 °C ... 50 °C (cable, flexible installation) |

General data

| | |
|---------------------------------------|------------------|
| Rated voltage | 48 V AC |
| | 60 V DC |
| Number of positions | 4 |
| Alternative short product description | Sercos III cable |

Characteristics head 1

| | |
|--|----------------------------|
| Head type | Plug straight M12 SPEEDCON |
| No. of positions (pin connector pattern) | 4 |

Cable

| | |
|---------------------------|------------|
| Cable type | Sercos III |
| Cable type (abbreviation) | 93K |

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Technical data

Cable

| | |
|---|---|
| UL AWM style | 21694 (60°C / 600 V) |
| Signal type/category | Sercos CAT5 (IEC 11801), 100 Mbps |
| Cable structure | 1x4xAWG22/7; SF/TQ |
| Conductor cross section | 4x 0.34 mm ² |
| AWG signal line | 22 |
| Conductor structure signal line | 7x 0.25 mm |
| Core diameter including insulation | approx. 1.55 mm |
| Wire colors | White, yellow, blue, orange |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | Star quad |
| Shielding | Tinned copper braided shield |
| External sheath, color | signal red RAL 3020 |
| Outer sheath thickness | approx. 0.9 mm |
| External cable diameter D | 6.5 mm ±0.2 mm |
| Minimum bending radius, fixed installation | 3 x D |
| Minimum bending radius, flexible installation | 7 x D |
| Cable weight | 68 kg/km |
| Outer sheath, material | PVC |
| Material, inner sheath | PVC |
| Material conductor insulation | PE |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ 0.5 GΩ*km |
| Conductor resistance | ≤ 120 Ω/km |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Signal runtime | 5.3 ns/m |
| Coupling resistance | ≤ 20.00 mΩ/m (at 10 Hz) |
| Nominal voltage, cable | 600 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000 V (50 Hz, 1 min.) |
| Flame resistance | According to UL 1685 (CSA FT 4) |
| Resistance to oil | Resistant to oil to a limited extent |
| Other resistance | UV resistant According to UL 1581, Section 1200 |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation) |
| | -40 °C ... 70 °C (cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -50 °C ... 70 °C |

Environmental Product Compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |

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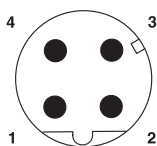
Technical data

Environmental Product Compliance

| | |
|--|---|
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |
|--|---|

Drawings

Schematic diagram



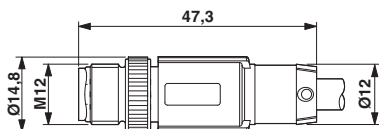
Pin assignment M12 male connector, 4-pos., D-coded, male side

Cable cross section



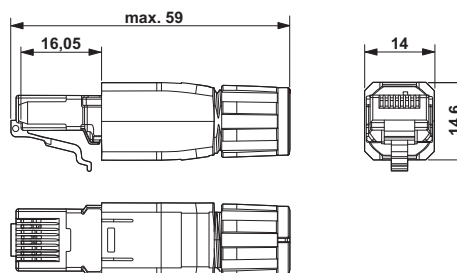
Sercos III [93K]

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



RJ45 connector, IP20

Mouser Electronics

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