

Motor cable ZK4800-8003-xxxx



| Plug connector                        | Contact | Function        | Core identification | Contact | Plug connector     |
|---------------------------------------|---------|-----------------|---------------------|---------|--------------------|
| <p>Mating view</p> <p>ZS4000-2104</p> | A       | U               | black / 1           | U       | <p>ZS4800-2013</p> |
|                                       | B       | V               | black / 2           | V       |                    |
|                                       | C       | W               | black / 3           | W       |                    |
|                                       | D       | PE              | green/yellow        | PE      |                    |
|                                       | E       | Temp. - / OCT - | blue                | Temp. - |                    |
|                                       | F       | Screen          | Screen              | Screen  |                    |
|                                       | G       | Brake +         | black / 5           | Brake + |                    |
|                                       | H       | Temp. + / OCT + | white               | Temp. + |                    |
|                                       | L       | Brake -         | black / 6           | Brake - |                    |

| Catalog data        |   |
|---------------------|---|
| Catalog text        | 1.5 mm <sup>2</sup> with M23-speedtec® plug, fixed installation |
| Servomotor          | AM883x and AM8x4x up to AM8x6x (up to winding code P)           |
| Servo Drive         | AX8108 and AX8206   |
| Catalog description | (4x1.5mm <sup>2</sup> + (2x0.75mm <sup>2</sup> ) + (2xAWG22))   |

| Electrical properties at 20°C |  |
|-------------------------------|--|
| Max. operating voltage        | 1000 VAC (UL)  |
| Direct current resistance     | ≤ 55.0 Ω/km (AWG22) / ≤ 26.0 Ω/km (0.75 mm <sup>2</sup> ) / ≤ 13.3 Ω/km (1.5 mm <sup>2</sup> ), DIN EN 50395 |
| Insulation resistance         | ≥ 500 MΩ x km, DIN EN 50395  |
| Operating capacity at 800 Hz  | score / screen ≤ 150 pF/m (1.5mm <sup>2</sup> ), EN 50289-1-5  |

| Mechanical properties |                              |
|-----------------------|------------------------------|
| Outside diameter d    | 12.2 ± 0.4 mm                |
| Min. bending radius   | 5 x d for fixed installation |
| Max. torsion          | ± 30°/m                      |
| Operating temperature | -0°C to +80°C                |
| Shield optical        | >85 %                        |

| Properties cable            |  |
|-----------------------------|--|
| Material outer sheath       | PVC, flame retardant, oil resistance                         |
| Color                       | Orange, like RAL 2003  |
| Weight                      | 0.25 kg/m  |
| RoHS conformity             | Yes  |
| Silicon-free                | Yes  |
| Halogen-free                | No   |
| Flame resistance            | IEC 60332-1-2 / UL758 cable flame test                       |
| Oil resistance outer sheath | HD 22.10 Appendix A / DIN EN60811-2-1                        |
| UL Approbation              | UL758 (AWM) Style 2570 (Outer sheath) and Style 10492 (Core) |

| Properties motor plug |   |
|-----------------------|---|
| Housing               | brass, zinc diecast; nickel-plated and chromated  |
| Connecting Nut        | Fiber-glass reinforced for high mechanical stress |
| Contacts              | brass gold plated                                 |
| Seals                 | FPM (Viton)                                       |
| Clamp Ring            | brass nickel-plated                               |
| Protection Type       | connected: IP 65 (IEC 60529)                      |
| Mating Cycles         | min. 500  |

| Properties AX8000 plug |              |
|------------------------|--------------|
| Contact material       | Cu-Leg       |
| Contact surface        | tin-plated   |
| Insulator              | PBT          |
| Licence                | CSA, UL 1059 |
| RoHS conformity        | yes          |

Motor cable extension ZK4501-8003-xxxx



| Plug connector                        | Contact | Function        | Core identification | Contact | Plug connector                        |
|---------------------------------------|---------|-----------------|---------------------|---------|---------------------------------------|
| <p>Mating view</p> <p>ZS4000-2104</p> | A       | U               | black / 1           | A       | <p>Mating view</p> <p>ZS4000-2108</p> |
|                                       | B       | V               | black / 2           | B       |                                       |
|                                       | C       | W               | black / 3           | C       |                                       |
|                                       | D       | PE              | green/yellow        | D       |                                       |
|                                       | E       | Temp. - / OCT - | blue                | E       |                                       |
|                                       | F       | Screen          | Screen              | F       |                                       |
|                                       | G       | Brake +         | black / 5           | G       |                                       |
|                                       | H       | Temp. + / OCT + | white               | H       |                                       |
|                                       | L       | Brake -         | black / 6           | L       |                                       |

| Catalog data        | Motor cable extension for motor cable ZK4800-8003-zzzz          |
|---------------------|---|
| Catalog text        | 1.5 mm <sup>2</sup> with M23-speedtec® plug, fixed installation |
| Servomotor          | AM883x and AM8x4x up to AM8x6x (up to winding code P)           |
| Servo Drive         | AX8108 and AX8206   |
| Catalog description | (4x1.5mm <sup>2</sup> + (2x0.75mm <sup>2</sup> ) + (2xAWG22))   |

| Electrical properties at 20°C |  |
|-------------------------------|--|
| Max. operating voltage        | 1000 VAC (UL)  |
| Direct current resistance     | ≤ 55.0 Ω/km (AWG22) / ≤ 26.0 Ω/km (0.75 mm <sup>2</sup> ) / ≤ 13.3 Ω/km (1.5 mm <sup>2</sup> ), DIN EN 50395 |
| Insulation resistance         | ≥ 500 MΩ x km, DIN EN 50395  |
| Operating capacity at 800 Hz  | score / screen ≤ 150 pF/m (1.5mm <sup>2</sup> ), EN 50289-1-5  |

| Mechanical properties |                              |
|-----------------------|------------------------------|
| Outside diameter d    | 12.2 ± 0.4 mm                |
| Min. bending radius   | 5 x d for fixed installation |
| Max. torsion          | ± 30°/m                      |
| Operating temperature | -0°C to +80°C                |
| Shield optical        | >85 %                        |

| Properties cable            |  |
|-----------------------------|--|
| Material outer sheath       | PVC, flame retardant, oil resistance                         |
| Color                       | Orange, like RAL 2003  |
| Weight                      | 0.25 kg/m  |
| RoHS conformity             | Yes  |
| Silicon-free                | Yes  |
| Halogen-free                | No   |
| Flame resistance            | IEC 60332-1-2 / UL758 cable flame test                       |
| Oil resistance outer sheath | HD 22.10 Appendix A / DIN EN60811-2-1                        |
| UL Approbation              | UL758 (AWM) Style 2570 (Outer sheath) and Style 10492 (Core) |

| Properties motor plug |   |
|-----------------------|---|
| Housing               | brass, zinc diecast; nickel-plated and chromated  |
| Connecting Nut        | Fiber-glass reinforced for high mechanical stress |
| Contacts              | brass gold plated                                 |
| Seals                 | FPM (Viton)                                       |
| Clamp Ring            | brass nickel-plated                               |
| Protection Type       | connected: IP 65 (IEC 60529)                      |
| Mating Cycles         | min. 500  |