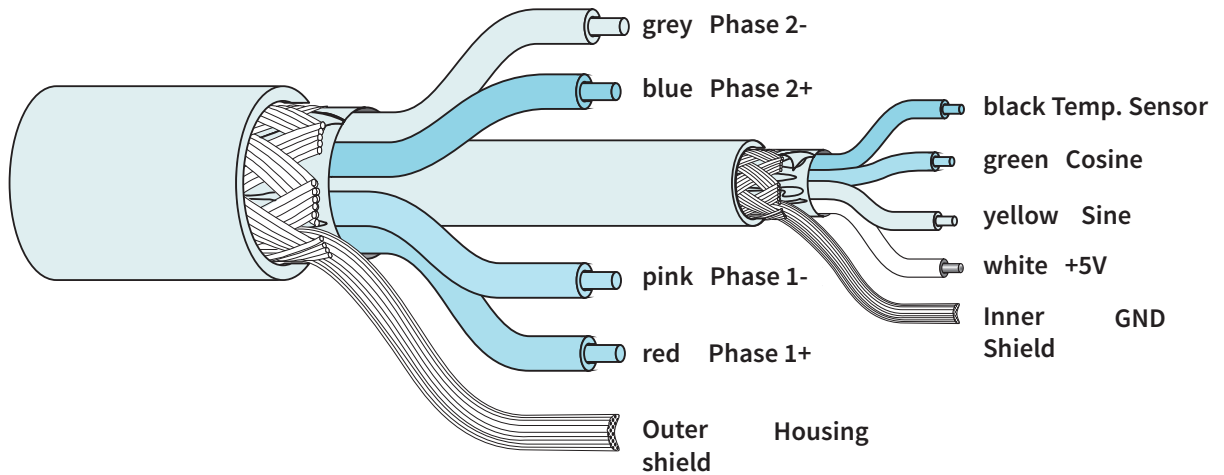


MOTOR CABLES FOR STANDARD AND LINEAR ROTARY MOTORS



- ✓ Single-cable principle to feed signals and motor phases
- ✓ Standard cables for fixed installation
- ✓ High-flex cables for cable chain applications
- ✓ Robot cables for torsional loads
- ✓ Prefabricated motor cables

For type P0x and PR linear motors, one single cable is sufficient to connect the motor and drive. This motor cable contains the motor phases and sensor signals for the position measurement integrated in the motor. The double shielding in the cable (see illustration) ensures that the linear motor can operate without interference with a cable up to 30 m long.



Single-cable concept for type P0x linear motors and PR01 motors

TYPES OF MOTOR CABLES

The abbreviations K, KS, KR, and KF specify the available types of the cables.

The standard type K motor cable is suitable for stationary cable routing. It is used wherever the motor cable is fixed and not subject to any motion.

The high-flex trailing chain KS motor cable is suitable for applications where the motor cable moves, where the cable is routed through a cable carrier and undergoes a roll-up motion.

If the motor cable is subject to a torsional motion, then the special type KR robot cable should be used. In order to protect the robot cable from mechanical damage, it should be routed through a suitable cable tube.

A ribbon cable is with the designation KF is available for the P02-23Sx80 short motor. The ribbon cable can be subjected to roll-up motion, just like the high-flex cable.

MOTOR CABLE BY LENGTH

LinMot motor cables are available by length in versions K, KS, and KR. The cable can be cut to the desired length or ordered in large quantities on rolls.

LinMot carries all of the motor plugs for customers to assemble their own motor cables. The individual connections for customer-assembled motor cables should be checked carefully for short circuits and correct configuration prior to commissioning. The insulation strength between individual conductors must be tested with a test voltage of 1500VDC.

PREFABRICATED MOTOR CABLES

Fully assembled motor cables can be shipped in lengths up to 30 m. Order the motor cable in the desired length together with the matching motor plugs (assembled). Longer cables can also be assembled after consultation with LinMot.

Prefabricated motor cables with the most commonly used plug combinations can be shipped from stock in standard lengths.

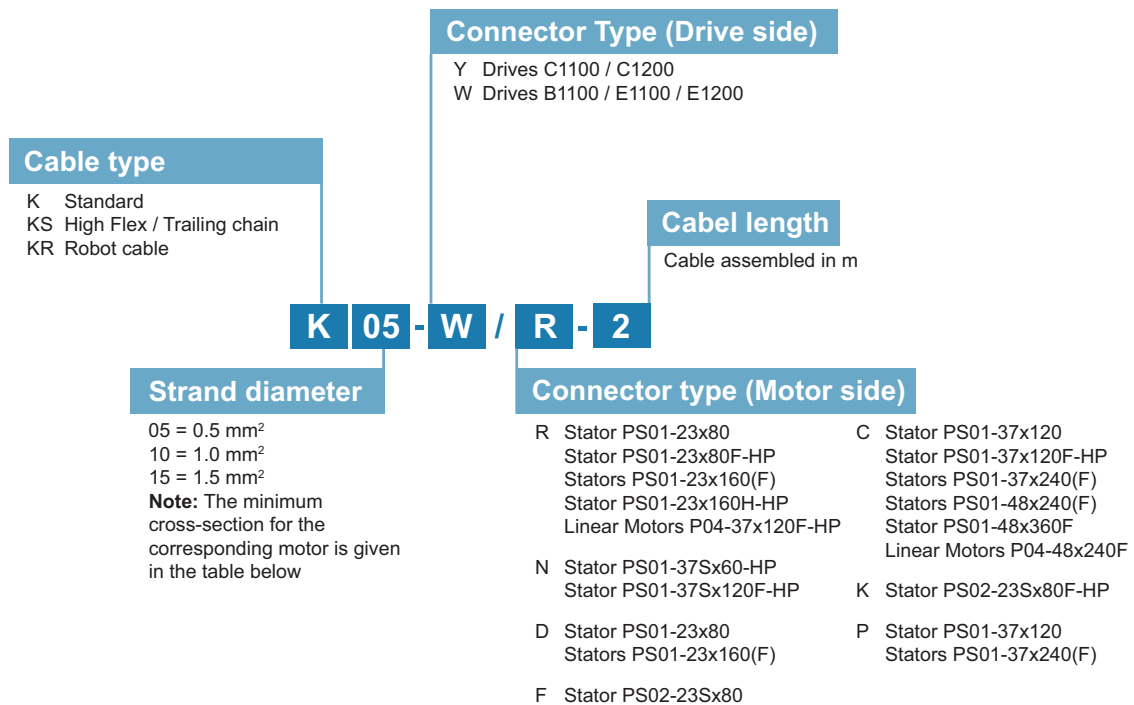
LinMot motor cables are produced using only crimped contacts and are tested under high voltage prior to shipment.

14

| Cables for stators P01 / P02 / P03 / P04 / PR01 | | | | | | | | | |
|-------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------------------------------------|---------------------------|--------------------------|----------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|-----------------------|
| | Standard Motor Cable | | Trailing Chain Cable | | | Robot Cable | | | Flat Cable |
| Cable type | K05-04/05 | K15-04/05 | KS03-09 | KS05-04/05 | KS10-04/05 | KR03-09 | KR05-04/05 | KR10-04/05 | KF02-D15/F-... |
| Wire cross-section | 0.5 mm ² | 1.5 mm ² | 0.34 mm ² | 0.5 mm ² | 1.0 mm ² | 0.34 mm ² | 0.5 mm ² | 1.0 mm ² | (-) |
| Motor phases | (AWG20) | (AWG16) | (AWG22) | (AWG20) | (AWG18) | (AWG22) | (AWG20) | (AWG18) | (-) |
| Wire cross-section | 0.14 mm ² | | 0.14 mm ² | | | 0.14 mm ² | | | (-) |
| Sensor signal | (AWG26) | | (AWG26) | | | (AWG26) | | | (-) |
| Material | TPE-U | | TPE-E | | | TPE-E | | | Polyester |
| Wire insulation | PUR | | PUR | | | PUR | | | (-) |
| Material | black | | black | | | black | | | white |
| Cable sheath | black | | black | | | black | | | white |
| Colour | black | | black | | | black | | | white |
| Cable sheath | 8.2 mm | 11.2 mm | 6.7 mm | 9.5 mm | 10.8 mm | 7.4 mm | 9.7 mm | 10.9 mm | 17.8x0.2 mm |
| Cable cross section | (0.31 in) | (0.44 in) | (0.26 in) | (0.38 in) | (0.42 in) | (0.29 in) | (0.38 in) | (0.43 in) | (0.7x0.008 in) |
| Weight | 83 kg/km | 180 kg/km | 64 kg/km | 113 kg/km | 139 kg/km | 69 kg/km | 109 kg/km | 136 kg/km | (-) |
| | (295 lb/mi) | (639 lb/mi) | (227 lb/mi) | (401 lb/mi) | (493 lb/mi) | | (387 lb/mi) | (493 lb/mi) | |
| Approvals | UL / CSA 300V | | UL / CSA 300V | | | UL / CSA 300V | | | (-) |
| | E467697 | | E172204 | | | E172204 | | | |
| AWM-Style | 20233 | | 21198 | 20235 | 20235 | 21198 | 20233 | 20233 | (-) |
| Minimum bending radius static | 25 mm (1 in) | 50 mm (2 in) | 25 mm (1 in) | 30 mm (1.2 in) | 50 mm (2 in) | 30 mm (1.2 in) | 40 mm (1.6 in) | 50 mm (2 in) | foldable |
| Minimum bending radius moving | Not suitable for applications With moving motor cable | | 50 mm (2 in) | 60 mm (2.4 in) no torsion | 100 mm (4 in) no torsion | 60 mm (2.4 in) Max. Torsion: ±180° pro 0.5 m* | 80 mm (3.2 in) Max. Torsion: ±270° per 0.5 m (19.7 in) | 100 mm (4 in) Max. Torsion: ±270° per 0.5 m (19.7 in) | 25 mm (0.99 in) |
| Temperature range | -40°...+80°C | | -40°...+80°C | | | -40°...+80°C | | | -55°...+105°C |
| Oil resistance | very good acc. DIN VDE 0282 Part 10 + HD 22.10 | | very good acc. DIN VDE 0282 Part 10 + HD 22.10 | | | very good acc. DIN VDE 0282 Part 10 + HD 22.10 | | | (-) |
| Chemical resistance | good to acids, alkalis, solvents, hydraulic fluids, etc. | | good to acids, alkalis, solvents, hydraulic fluids, etc. | | | good to acids, alkalis, solvents, hydraulic fluids, etc. | | | (-) |

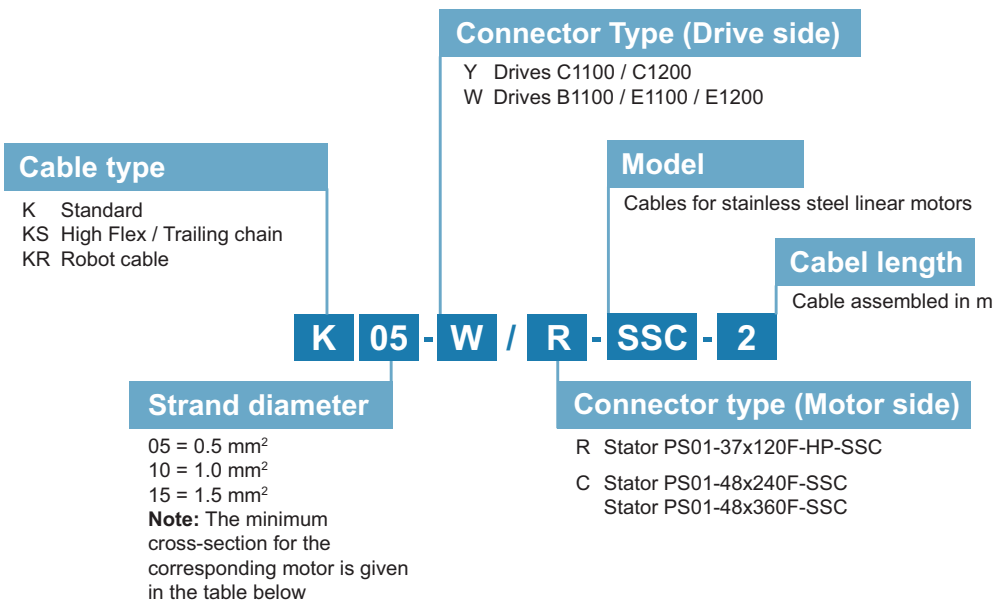
* ±270° / 0.5 m permitted for initialization.

TYPE CODE OF MOTOR CABLE FOR STANDARD LINEAR MOTORS



| Minimum Strand Diameter | | | | | | |
|-------------------------|--------------------------|-------------|----------------------------------|-------------|---------------------------------|-------------|
| | Max. Cont. Force [A rms] | | Strand diameter according to DIN | | Strand diameter according to UL | |
| | Passive cooling | Fan cooling | Passive cooling | Fan cooling | Passive cooling | Fan cooling |
| PS01-23x80 | 0.6 | 1.1 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-23x80F-HP | 1.2 | 1.0 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS02-23Sx80 | 0.6 | 1.0 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS02-23Sx80F-HP | 1.1 | 2.0 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-23x160 | 0.6 | 1.0 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-23x160F | 0.8 | 1.6 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-23x160H-HP | 1.8 | 2.7 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-37Sx60-HP | 0.9 | 1.8 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-37x120 | 1.5 | 1.9 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-37x120F-HP | 2.1 | 3.8 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-37Sx120F-HP | 1.5 | 3.0 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-37x240 | 1.0 | 1.8 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-37x240F | 1.5 | 2.8 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-48x240 | 2.7 | 4.7 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PS01-48x240F | 4.8 | 8.3 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PS01-48x360F | 4.6 | 7.9 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| P04-37x120F-HP | 2.9 | 4.0 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| P04-48x240F | 4.7 | 8.3 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |

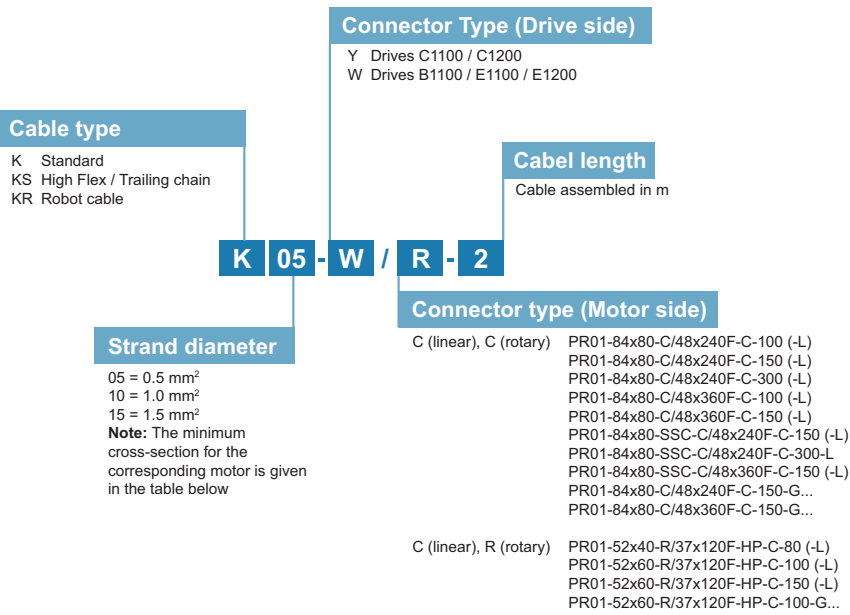
TYPE CODE OF MOTOR CABLE FOR STAINLESS STEEL LINEAR MOTORS



| Minimum Strand Diameter | | | | | | |
|-------------------------|--------------------------|---------------|----------------------------------|---------------|---------------------------------|---------------|
| | Max. Cont. Force [A rms] | | Strand diameter according to DIN | | Strand diameter according to UL | |
| | Passive cooling | Fluid cooling | Passive cooling | Fluid cooling | Passive cooling | Fluid cooling |
| PS01-37x120F-HP-SSC | 1.3 | 3.4 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PS01-48x240F-SSC | 3.3 | 9.2 | K(x)05 | K(x)05 | K(x)05 | K(x)15* |
| PS01-48x360F-SSC | 3.4 | 9.4 | K(x)05 | K(x)05 | K(x)05 | K(x)15** |

*Up to max. cont. force 230 N rms
 **Up to max. cont. force 333 N rms

TYPE CODE OF MOTOR CABLE FOR LINEAR ROTARY MOTORS



| Minimum Strand Diameter (Linear Unit) | | | | | | |
|---------------------------------------|--------------------------|-------------|----------------------------------|-------------|---------------------------------|-------------|
| | Max. Cont. Force [A rms] | | Strand diameter according to DIN | | Strand diameter according to UL | |
| | Passive cooling | Fan cooling | Passive cooling | Fan cooling | Passive cooling | Fan cooling |
| PR01-52x40-R/37x120F-HP-C-80 (-L) | 2.1 | 3.8 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PR01-52x60-R/37x120F-HP-C-100 (-L) | 2.1 | 3.8 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PR01-52x60-R/37x120F-HP-C-150 (-L) | 2.1 | 3.8 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PR01-84x80-C/48x240F-C-100 (-L) | 4.8 | 8.3 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PR01-84x80-C/48x240F-C-150 (-L) | 4.8 | 8.3 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PR01-84x80-C/48x240F-C-300 (-L) | 4.8 | 8.3 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PR01-84x80-C/48x360F-C-100 (-L) | 4.6 | 7.9 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PR01-84x80-C/48x360F-C-150 (-L) | 4.6 | 7.9 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PR01-84x80-SSC-C/48x240F-C-150 (-L) | 4.8 | 8.3 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PR01-84x80-SSC-C/48x240F-C-300-L | 4.8 | 8.3 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PR01-84x80-SSC-C/48x360F-C-150 (-L) | 4.6 | 7.9 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PR01-52x60-R/37x120F-HP-C-100-G... | 2.1 | 3.8 | K(x)05 | K(x)05 | K(x)05 | K(x)15 |
| PR01-84x80-C/48x240F-C-150-G... | 4.8 | 8.3 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |
| PR01-84x80-C/48x360F-C-150-G... | 4.6 | 7.9 | K(x)05 | K(x)05 | K(x)10 | K(x)15 |

| Minimum Strand Diameter (Rotary Unit) | | | | | | |
|---------------------------------------|--------------------------|-------------|----------------------------------|-------------|---------------------------------|-------------|
| | Max. Cont. Force [A rms] | | Strand diameter according to DIN | | Strand diameter according to UL | |
| | Passive cooling | Fan cooling | Passive cooling | Fan cooling | Passive cooling | Fan cooling |
| PR01-52x40-R/37x120F-HP-C-80 (-L) | 1.2 | 1.8 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PR01-52x60-R/37x120F-HP-C-100 (-L) | 2.1 | 3.1 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PR01-52x60-R/37x120F-HP-C-150 (-L) | 2.1 | 3.1 | K(x)05 | K(x)05 | K(x)05 | K(x)05 |
| PR01-84x80-C/48x240F-C-100 (-L) | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-84x80-C/48x240F-C-150 (-L) | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-84x80-C/48x240F-C-300 (-L) | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-84x80-C/48x360F-C-100 (-L) | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-84x80-C/48x360F-C-150 (-L) | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-84x80-SSC-C/48x240F-C-150 (-L) | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-84x80-SSC-C/48x240F-C-300-L | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-84x80-SSC-C/48x360F-C-150 (-L) | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-52x60-R/37x120F-HP-C-100-G... | 2.1 | 3.1 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-84x80-C/48x240F-C-150-G... | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |
| PR01-84x80-C/48x360F-C-150-G... | 3.9 | 5.5 | K(x)05 | K(x)05 | K(x)05 | K(x)10 |

MOTOR CABLE PER M

| Item | Description | Item-No. |
|-----------------------|---------------------------------------|---------------------------|
| K05-04/05 | Motor cable per m | 0150-1920 |
| K05-04/05-50 | Motor cable 50 m roll | 0150-1956 |
| K05-04/05-100 | Motor cable 100 m roll | 0150-1957 |
| K05-04/05-200 | Motor cable 200 m roll | 0150-1958 |
| K15-04/05 | Motor cable per m | 0150-1978 |
| K15-04/05-100 | Motor cable 100 m roll | 0150-1969 |
| K15-04/05-050 | Motor cable 50 m roll | 0150-5495 |
| KS03-09 | Trailing chain cable per m (max. 6 m) | 0150-2182 |
| KS05-04/05 | Trailing chain cable per m | 0150-1938 |
| KS05-04/05-100 | Trailing chain cable 100 m roll | 0150-1959 |
| KS10-04/05 | Trailing chain cable per m | 0150-1977 |
| KS10-04/05-100 | Trailing chain cable 100 m roll | 0150-1968 |
| KR05-04/05 | Robotic cable per m | 0150-1846 |
| KR05-04/05-100 | Robotic cable 100 m roll | 0150-1847 |
| KR10-04/05 | Robotic cable per m | 0150-1830 |
| KR10-04/05-100 | Robotic cable 100 m roll | 0150-1831 |

MOTOR CABLE FLAT FOR SHORT TYPE MOTORS P02-23Sx80-F

| Item | Description | Item-No. |
|------------------------|------------------------------------------|---------------------------|
| KF02-D15/F-0.08 | Flat cable 0.08m, for PS02-23Sx80-F | 0150-2150 |
| KF02-D15/F-0.16 | Flat cable 0.16m, for PS02-23Sx80-F | 0150-2156 |
| KF02-D15/F-0.32 | Flat cable 0.32m, for PS02-23Sx80-F | 0150-2152 |
| KF02-D15/F-0.48 | Flat cable 0.48m, for PS02-23Sx80-F | 0150-2154 |
| KF02-D15/F-0.70 | Flat cable 0.70m, for PS02-23Sx80-F | 0150-2158 |
| K05-D/D15-1 | Adapter cable D/D15,1m (for PS01-23Sx80) | 0150-1936 |

MOTOR CABLE FOR LINEAR MOTORS WITH R CONNECTOR

| Item | Description | Item-No. |
|-------------------|-------------------------------|---------------------------|
| K05-W/R-2 | Motor cable W/R, 2 m | 0150-2119 |
| K05-W/R-3 | Motor cable W/R, 3 m | 0150-2459 |
| K05-W/R-4 | Motor cable W/R, 4 m | 0150-2120 |
| K05-W/R-6 | Motor cable W/R, 6 m | 0150-2121 |
| K05-W/R-8 | Motor cable W/R, 8 m | 0150-2122 |
| K05-W/R-10 | Motor cable W/R, 10 m | 0150-2132 |
| K05-Y/R-2 | Motor cable Y/R, 2 m | 0150-2421 |
| K05-Y/R-4 | Motor cable Y/R, 4 m | 0150-2422 |
| K05-Y/R-6 | Motor cable Y/R, 6 m | 0150-2423 |
| K05-Y/R-8 | Motor cable Y/R, 8 m | 0150-2424 |
| K05-HI/R-2 | Motor cable HI/R, 2 m | 0150-2449 |
| K05-HI/R-4 | Motor cable HI/R, 4 m | 0150-2450 |
| KS05-W/R-4 | Trailing chain cable W/R, 4 m | 0150-2106 |
| KS05-W/R-6 | Trailing chain cable W/R, 6 m | 0150-2131 |
| KS05-W/R-8 | Trailing chain cable W/R, 8 m | 0150-2107 |
| KS05-Y/R-4 | Trailing chain cable Y/R, 4 m | 0150-2433 |
| KS05-Y/R-6 | Trailing chain cable Y/R, 6 m | 0150-2434 |
| KS05-Y/R-8 | Trailing chain cable Y/R, 8 m | 0150-2435 |
| KS05-R/R-2 | Trailing chain cable R/R, 2 m | 0150-1838 |
| KS05-R/R-4 | Trailing chain cable R/R, 4 m | 0150-1839 |

| MOTOR CABLE FOR LINEAR MOTORS WITH R-SSC CONNECTORS (STAINLESS STEEL) | | |
|-----------------------------------------------------------------------|-----------------------------------|---------------------------|
| Item | Description | Item-No. |
| KS05-W/R-SSC-2 | Trailing chain cable W/R-SSC, 2 m | 0150-2683 |
| KS05-W/R-SSC-4 | Trailing chain cable W/R-SSC, 4 m | 0150-2684 |
| KS05-W/R-SSC-6 | Trailing chain cable W/R-SSC, 6 m | 0150-2685 |
| KS05-W/R-SSC-8 | Trailing chain cable W/R-SSC, 8 m | 0150-2686 |
| KS05-Y/R-SSC-2 | Trailing chain cable Y/R-SSC, 2 m | 0150-2687 |
| KS05-Y/R-SSC-4 | Trailing chain cable Y/R-SSC, 4 m | 0150-2688 |
| KS05-Y/R-SSC-6 | Trailing chain cable Y/R-SSC, 6 m | 0150-2689 |
| KS05-Y/R-SSC-8 | Trailing chain cable Y/R-SSC, 8 m | 0150-2690 |

| MOTOR CABLE FOR LINEAR MOTORS WITH C CONNECTOR | | |
|------------------------------------------------|-------------------------------|---------------------------|
| Item | Description | Item-No. |
| K05-W/C-2 | Motor cable W/C, 2 m | 0150-2123 |
| K05-W/C-4 | Motor cable W/C, 4 m | 0150-2124 |
| K05-W/C-6 | Motor cable W/C, 6 m | 0150-2125 |
| K05-W/C-8 | Motor cable W/C, 8 m | 0150-2126 |
| K05-Y/C-2 | Motor cable Y/C, 2 m | 0150-2425 |
| K05-Y/C-4 | Motor cable Y/C, 4 m | 0150-2426 |
| K05-Y/C-6 | Motor cable Y/C, 6 m | 0150-2427 |
| K05-Y/C-8 | Motor cable Y/C, 8 m | 0150-2428 |
| K05-HI/C-2 | Motor cable HI/C, 2 m | 0150-2452 |
| K05-HI/C-4 | Motor cable HI/C, 4 m | 0150-2451 |
| K15-W/C-2 | Motor cable W/C, 2 m | 0150-1811 |
| K15-W/C-4 | Motor cable W/C, 4 m | 0150-1801 |
| K15-W/C-5 | Motor cable W/C, 5 m | 0150-1849 |
| K15-W/C-6 | Motor cable W/C, 6 m | 0150-1802 |
| K15-W/C-8 | Motor cable W/C, 8 m | 0150-1803 |
| K15-Y/C-2 | Motor cable Y/C, 2 m | 0150-2429 |
| K15-Y/C-4 | Motor cable Y/C, 4 m | 0150-2430 |
| K15-Y/C-6 | Motor cable Y/C, 6 m | 0150-2431 |
| K15-Y/C-8 | Motor cable Y/C, 8 m | 0150-2432 |
| K15-HI/C-2 | Motor cable HI/C, 2 m | 0150-2453 |
| K15-HI/C-4 | Motor cable HI/C, 4 m | 0150-2458 |
| KS05-W/C-4 | Trailing chain cable W/C, 4 m | 0150-2127 |
| KS05-W/C-6 | Trailing chain cable W/C, 6 m | 0150-2128 |
| KS05-W/C-8 | Trailing chain cable W/C, 8 m | 0150-2129 |
| KS05-Y/C-4 | Trailing chain cable Y/C, 4 m | 0150-2436 |
| KS05-Y/C-6 | Trailing chain cable Y/C, 6 m | 0150-2437 |
| KS05-Y/C-8 | Trailing chain cable Y/C, 8 m | 0150-2438 |
| KS05-C/C-2 | Trailing chain cable C/C, 2 m | 0150-1827 |
| KS05-C/C-4 | Trailing chain cable C/C, 4 m | 0150-1828 |
| KS10-W/C-4 | Trailing chain cable W/C, 4 m | 0150-1807 |
| KS10-W/C-5 | Trailing chain cable W/C, 5 m | 0150-1860 |
| KS10-W/C-6 | Trailing chain cable W/C, 6 m | 0150-1858 |
| KS10-W/C-8 | Trailing chain cable W/C, 8 m | 0150-1808 |
| KS10-Y/C-4 | Trailing chain cable Y/C, 4 m | 0150-2439 |
| KS10-Y/C-6 | Trailing chain cable Y/C, 6 m | 0150-2440 |
| KS10-Y/C-8 | Trailing chain cable Y/C, 8 m | 0150-2441 |
| KS10-C/C-2 | Trailing chain cable C/C, 2 m | 0150-1816 |
| KS10-C/C-4 | Trailing chain cable C/C, 4 m | 0150-1817 |

MOTOR CABLE FOR LINEAR MOTORS WITH C-SSC CONNECTORS (STAINLESS STEEL)

| Item | Description | Item-No. |
|-----------------------|-----------------------------------|---------------------------|
| KS10-W/C-SSC-2 | Trailing chain cable W/C-SSC, 2 m | 0150-2675 |
| KS10-W/C-SSC-4 | Trailing chain cable W/C-SSC, 4 m | 0150-2676 |
| KS10-W/C-SSC-6 | Trailing chain cable W/C-SSC, 6 m | 0150-2677 |
| KS10-W/C-SSC-8 | Trailing chain cable W/C-SSC, 8 m | 0150-2678 |
| KS10-Y/C-SSC-2 | Trailing chain cable Y/C-SSC, 2 m | 0150-2679 |
| KS10-Y/C-SSC-4 | Trailing chain cable Y/C-SSC, 4 m | 0150-2680 |
| KS10-Y/C-SSC-6 | Trailing chain cable Y/C-SSC, 6 m | 0150-2681 |
| KS10-Y/C-SSC-8 | Trailing chain cable Y/C-SSC, 8 m | 0150-2682 |

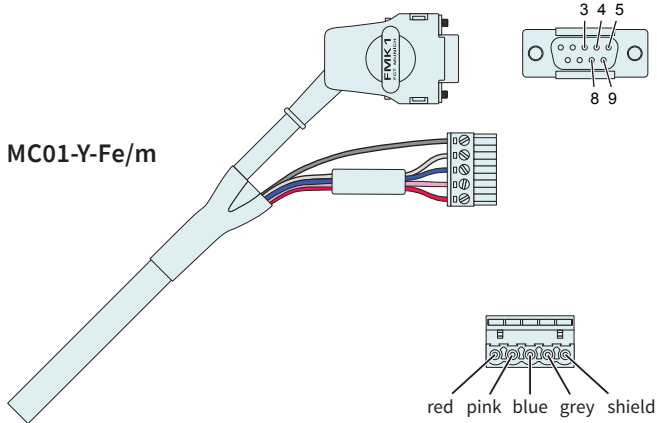
MOTOR CABLE FOR SHORT TYPE MOTORS P02-23Sx80-F-HP-K

| Item | Description | Item-No. |
|----------------------|----------------------------------|---------------------------|
| KS03-W-Fe/K-2 | Trailing chain cable W-Fe/K 2 m | 0150-2187 |
| KS03-W-Fe/K-4 | Trailing chain cable W-Fe/K 4 m | 0150-2369 |
| KS03-W-Fe/K-6 | Trailing chain cable W-Fe/K 6 m | 0150-2370 |
| KS03-Y-Fe/K-2 | Trailing chain cable Y-Fe/K, 2 m | 0150-2446 |
| KS03-Y-Fe/K-4 | Trailing chain cable Y-Fe/K, 4 m | 0150-2447 |
| KS03-Y-Fe/K-6 | Trailing chain cable Y-Fe/K, 6 m | 0150-2448 |
| KS03-R/K-1 | Trailing chain cable R/K 1 m | 0150-2185 |
| KS03-R/K-2 | Trailing chain cable R/K 2 m | 0150-2186 |

MOTOR CABLE FOR SHORT TYPE MOTORS P01-37SX...-HP-N

| Item | Description | Item-No. |
|-------------------|-------------------------------|---------------------------|
| KS05-W/N-2 | Trailing chain cable W/N, 2 m | 0150-2296 |
| KS05-W/N-4 | Trailing chain cable W/N, 4 m | 0150-2297 |
| KS05-W/N-6 | Trailing chain cable W/N, 6 m | 0150-2298 |
| KS05-W/N-8 | Trailing chain cable W/N, 8 m | 0150-2299 |
| KS05-Y/N-2 | Trailing chain cable Y/N, 2 m | 0150-2442 |
| KS05-Y/N-4 | Trailing chain cable Y/N, 4 m | 0150-2443 |
| KS05-Y/N-6 | Trailing chain cable Y/N, 6 m | 0150-2444 |
| KS05-Y/N-8 | Trailing chain cable Y/N, 8 m | 0150-2445 |

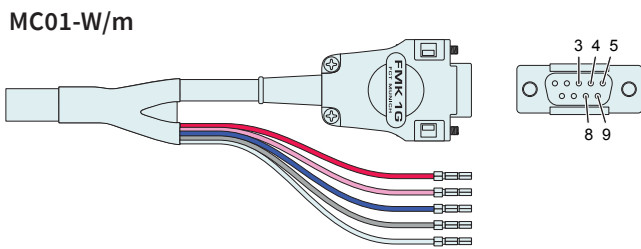
Y-CONNECTOR



| | | |
|-------------|---------------|--------------|
| Strand red | Phase 1+ | red |
| Strand pink | Phase 1- | pink |
| Strand blue | Phase 2+ | blue |
| Strand grey | Phase 2- | grey |
| 3 | +5V | white |
| 8 | GND | inner Shield |
| 4 | Sensor Sine | yellow |
| 9 | Sensor Cosine | green |
| 5 | Temp. Sensor | black |
| Shield | Shield | Outer shield |

| Item | Description | Item-No. |
|-----------------------------------|-------------------------|---------------------------|
| MC01-Y-Fe/m | Motor connector Y-Fe/m | 0150-3289 |
| MC01-Y-Fe/m-as (assembled) | Y/m-Connector assembled | 0150-3500 |

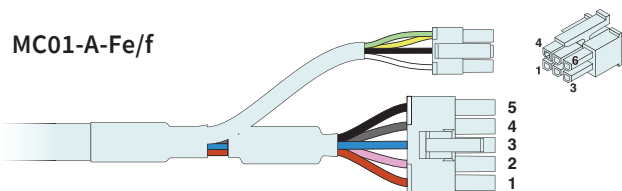
W-CONNECTOR



| | | |
|-------------|---------------|--------------|
| Strand red | Phase 1+ | red |
| Strand pink | Phase 1- | pink |
| Strand blue | Phase 2+ | blue |
| Strand grey | Phase 2- | grey |
| 3 | +5V | white |
| 8 | GND | inner Shield |
| 4 | Sensor Sine | yellow |
| 9 | Sensor Cosine | green |
| 5 | Temp. Sensor | black |
| Shield | Shield | Outer Shield |

| Item | Description | Item-No. |
|--------------------------------|-------------------------|---------------------------|
| MC01-W/m | Motor connector W/m | 0150-3140 |
| MC01-W/m-as (assembled) | W/m-Connector assembled | 0150-3147 |

A-CONNECTOR



Power

| | | |
|---|----------|--------------|
| 1 | Phase 1+ | red |
| 2 | Phase 1- | pink |
| 3 | Phase 2+ | blue |
| 4 | Phase 2- | grey |
| 5 | Shield | Outer Shield |

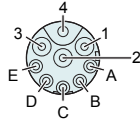
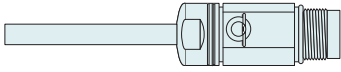
Signal

| | | |
|---|---------------|-----------------------------------------------|
| 1 | GND | brown (Kx03) / Drain wire inner shield (Kx05) |
| 2 | Temp. Sensor | black |
| 3 | Sensor Sine | yellow |
| 4 | +5V | white |
| 5 | n. c. | n. c. |
| 6 | Sensor Cosine | green |

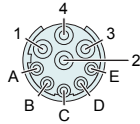
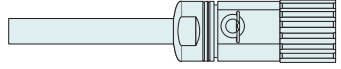
| Item | Description | Item-No. |
|-----------------------|----------------------------|---------------------------|
| MC01-A-Fe/f-as | A-Fe/f-connector assembled | 0150-3541 |

R-CONNECTOR

MC01-R/m



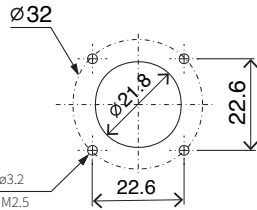
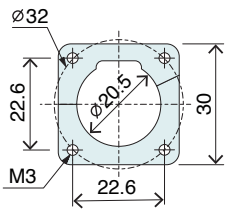
MC01-R/f



| | | |
|---------|---------------|--------------|
| 1 | Phase 1+ | red |
| 2 | Phase 1- | pink |
| 3 | Phase 2+ | blue |
| 4 | Phase 2- | grey |
| A | +5V | white |
| B | GND | inner Shield |
| C | Sensor Sine | yellow |
| D | Sensor Cosine | green |
| E | Temp. Sensor | black |
| Housing | Shield | Outer Shield |

MC01-F/R

Mounting window



Back panel mounting:ø3.2
Front panel mounting:M2.5

| Item | Description | Item-No. |
|--------------------------------|--------------------------------------|---------------------------|
| MC01-R/m | Motor connector R/m | 0150-3130 |
| MC01-R/f | Motor connector R/f | 0150-3129 |
| MC01-R/m-as (assembled) | R/m-Connector assembled | 0150-3097 |
| MC01-R/f-as (assembled) | R/f-Connector assembled | 0150-3143 |
| MC01-F/R | Mounting flange for connector MC01-R | 0150-3253 |
| MC01-R/m-cap (Kappe) | Metal protection cap for R/m (Motor) | 0150-3376 |
| MC01-R/f-cap (Kappe) | Metal protection cap for R/f (Cable) | 0150-3377 |

MC01-R/m-cap

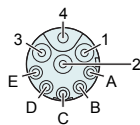
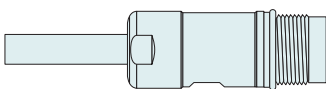


MC01-R/f-cap

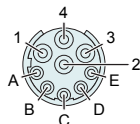
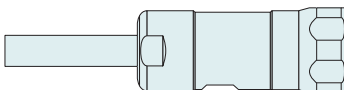


R-CONNECTOR STAINLESS STEEL

MC01-R/m-IP69K-SSC



MC01-R/f-IP69K-SSC



| | | |
|---------|---------------|--------------|
| 1 | Phase 1+ | red |
| 2 | Phase 1- | pink |
| 3 | Phase 2+ | blue |
| 4 | Phase 2- | grey |
| A | +5V | white |
| B | GND | inner Shield |
| C | Sensor Sine | yellow |
| D | Sensor Cosine | green |
| E | Temp. Sensor | black |
| Housing | Shield | Outer Shield |

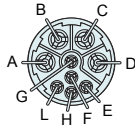
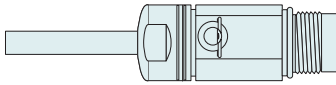
| Item | Description | Item-No. |
|------------------------------------------|-------------------------------------|---------------------------|
| MC01-R/m-IP69K-SSC | Motor connector R/m-SSC | 0150-3381 |
| MC01-R/f-IP69K-SSC | Motor connector R/f, IP69k, SSC | 0150-3347 |
| MC01-R/m-IP69K-SSC-as (assembled) | R/m-Connector IP69K, SSC, assembled | 0150-3685 |
| MC01-R/f-IP69K-SSC-as (assembled) | R/f-Connector IP69K, SSC, assembled | 0150-3343 |

Material: Stainless steel, Mat-Nr. 1.4404

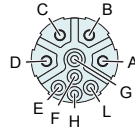
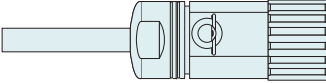
14

C-CONNECTOR

MC01-C/m

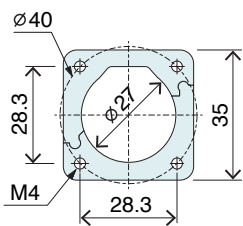


MC01-C/f

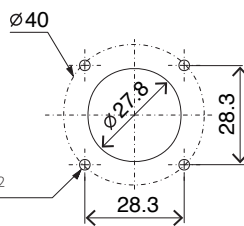


| | | |
|---------|---------------|--------------|
| A | Phase 1+ | red |
| B | Phase 1- | pink |
| C | Phase 2+ | blue |
| D | Phase 2- | grey |
| E | +5V | white |
| F | GND | inner Shield |
| G | Sensor Sine | yellow |
| H | Sensor Cosine | green |
| L | Temp. Sensor | black |
| Housing | Shield | Outer Shield |

MC01-F/C



Mounting window



| Item | Description | Item-No. |
|--------------------------------|--------------------------------------|---------------------------|
| MC01-C/m | Motor connector C/m | 0150-3093 |
| MC01-C/f | Motor connector C/f | 0150-3080 |
| MC01-C/m-as (assembled) | C/m-Connector assembled | 0150-3099 |
| MC01-C/f-as (assembled) | C/f-Connector assembled | 0150-3146 |
| MC01-F/C Steckerflansch | Mounting flange for connector MC01-C | 0150-3254 |
| MC01-C/m-cap (Kappe) | Metal protection cap for C/m (Motor) | 0150-3378 |
| MC01-C/f-cap (Kappe) | Metal protection cap for C/f (Cable) | 0150-3379 |

MC01-C/m-cap

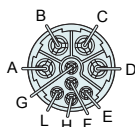
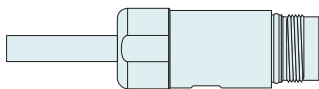


MC01-R/m-cap

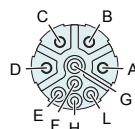
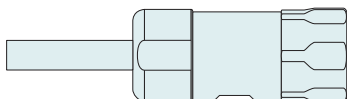


C-CONNECTOR INOX

MC01-C/m-IP69K-SSC



MC01-C/f-IP69K-SSC



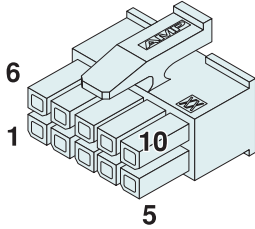
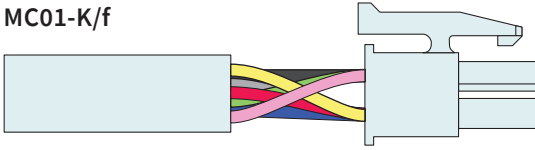
| | | |
|---------|---------------|--------------|
| A | Phase 1+ | red |
| B | Phase 1- | pink |
| C | Phase 2+ | blue |
| D | Phase 2- | grey |
| E | +5V | white |
| F | GND | inner Shield |
| G | Sensor Sine | yellow |
| H | Sensor Cosine | green |
| L | Temp. Sensor | black |
| Housing | Shield | Outer Shield |

| Item | Description | Item-No. |
|------------------------------------------|-------------------------------------------|---------------------------|
| MC01-C/m-IP69K-SSC | Motor connector C/m-SSC | 0150-3372 |
| MC01-C/f-IP69K-SSC | Motor connector C/f, IP69K, SSC | 0150-3306 |
| MC01-C/m-IP69K-SSC as (assembled) | Motor connector C/m, IP69K, SSC assembled | 0150-3404 |
| MC01-C/f-IP69K-SSC-as (assembled) | C/f-Connector IP69K, SSC assembled | 0150-3325 |

Material: Stainless steel, Mat-Nr. 1.4404

K-CONNECTOR

MC01-K/f

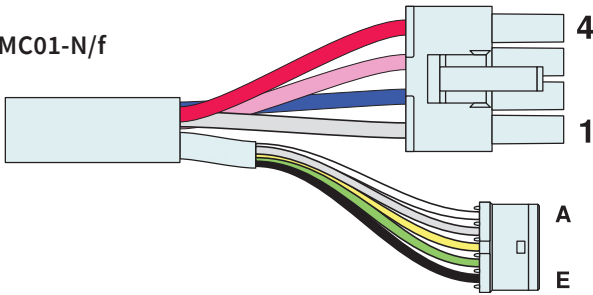


| | | |
|--------|---------------|--------------|
| 1 | Phase 1+ | red |
| 2 | Phase 2+ | blue |
| 4 | Phase 1- | pink |
| 5 | Phase 2- | grey |
| 9 | +5V | white |
| 8 | GND | brown |
| 6 | Sensor Sine | yellow |
| 7 | Sensor Cosine | green |
| 10 | Temp. Sensor | black |
| Shield | Shield | Outer Shield |

| Item | Description | Item-No. |
|--------------------------------|-------------------------|---------------------------|
| MC01-K/f | Motor connector K (f) | 0150-3345 |
| MC01-K/f-as (assembled) | K/f-Connector assembled | 0150-3346 |

N-CONNECTOR

MC01-N/f

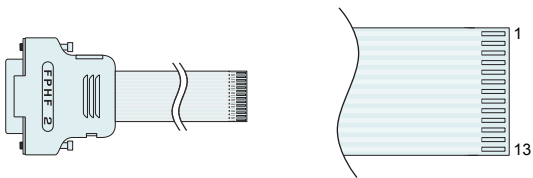


| | | |
|---|---------------|--------------|
| 4 | Phase 1+ | red |
| 3 | Phase 1- | pink |
| 2 | Phase 2+ | blue |
| 1 | Phase 2- | grey |
| A | +5V | white |
| B | GND | inner Shield |
| C | Sensor Sine | yellow |
| D | Sensor Cosine | green |
| E | Temp. Sensor | black |
| | Housing | Outer shield |

| Item | Description | Item-No. |
|--------------------------------|-------------------------|---------------------------|
| MC01-N/f | Motor connector N/f | 0150-3407 |
| MC01-N/f-as (assembled) | N/f-Connector assembled | 0150-3408 |

F-CONNECTOR

14



MC01-D15W/f

ZIF-Line Molex
pitch 1.25 mm

| | | |
|---------|---------------|---------|
| 12 & 13 | Phase 1+ | 12 & 13 |
| 3 & 4 | Phase 1- | 3 & 4 |
| 10 & 11 | Phase 2+ | 10 & 11 |
| 1 & 2 | Phase 2- | 1 & 2 |
| 5 | +5V | 5 |
| 7 | GND | 7 |
| 9 | Sensor Sine | 9 |
| 8 | Sensor Cosine | 8 |
| 6 | Temp. Sensor | 6 |

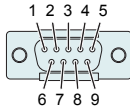
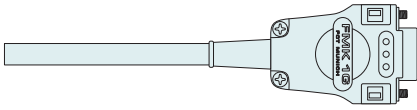
| Item | Description | Item-No. |
|-----------------------|---------------------------------|-----------------------------------------------------------------------------------|
| KF02-D15/F-... | Flat cable with D15/m-Connector | see section ordering information / Motor cable flat for short motors P02-23Sx80-F |



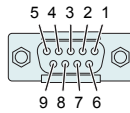
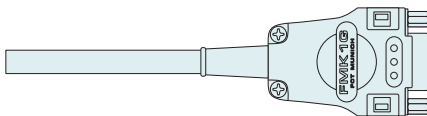
Plugging in or unplugging the flat ribbon cable under voltage can damage the motor and drive.

D-CONNECTOR

MC01-D/m



MC01-D/f

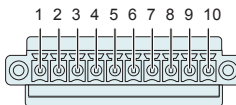
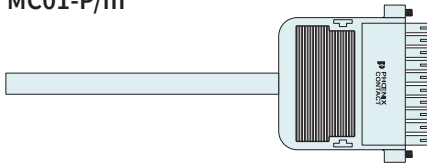


| | | |
|---------|---------------|--------------|
| 1 | Phase 1+ | red |
| 6 | Phase 1- | pink |
| 2 | Phase 2+ | blue |
| 7 | Phase 2- | grey |
| 3 | +5V | white |
| 8 | GND | inner Shield |
| 4 | Sensor Sine | yellow |
| 9 | Sensor Cosine | green |
| 5 | Temp. Sensor | black |
| Housing | Shield | Outer Shield |

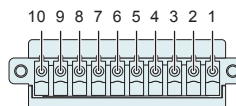
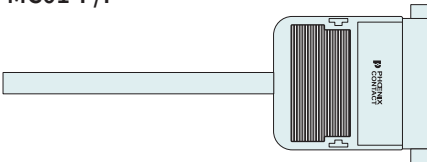
| Item | Description | Item-No. |
|--------------------------------|-------------------------|---------------------------|
| MC01-D/m | Motor connector D (m) | 0150-3024 |
| MC01-D/f | Motor connector D (f) | 0150-3025 |
| MC01-D/m-as (assembled) | D/m-Connector assembled | 0150-3055 |
| MC01-D/f-as (assembled) | D/f-Connector assembled | 0150-3142 |

P-CONNECTOR

MC01-P/m



MC01-P/f

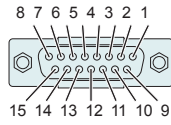
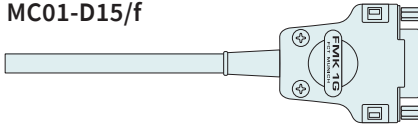


| | | |
|----|---------------|--------------|
| 1 | Phase 1+ | red |
| 2 | Phase 1- | pink |
| 3 | Phase 2+ | blue |
| 4 | Phase 2- | grey |
| 5 | +5V | white |
| 6 | GND | inner Shield |
| 7 | Sensor Sine | yellow |
| 8 | Sensor Cosine | green |
| 9 | Temp. Sensor | black |
| 10 | Shield | Outer Shield |

| Item | Description | Item-No. |
|--------------------------------|-------------------------|---------------------------|
| MC01-P/m | Motor connector P (m) | 0150-3020 |
| MC01-P/f | Motor connector P (f) | 0150-3021 |
| MC01-P/m-as (assembled) | P/m-Connector assembled | 0150-3056 |
| MC01-P/f-as (assembled) | P/f-Connector assembled | 0150-3144 |

D15-CONNECTOR

MC01-D15/f

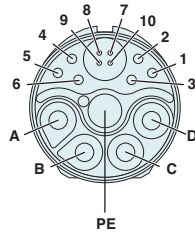
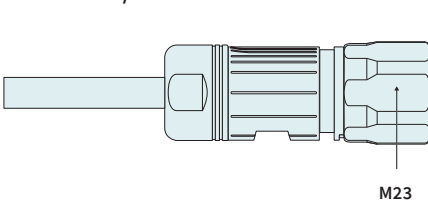


| | | |
|---------|---------------|--------------|
| 7 & 15 | Phase 1+ | red |
| 3 & 10 | Phase 1- | pink |
| 6 & 14 | Phase 2+ | blue |
| 2 & 9 | Phase 2- | grey |
| 11 | +5V | white |
| 12 | GND | inner Shield |
| 13 | Sensor Sine | yellow |
| 5 | Sensor Cosine | green |
| 4 | Temp. Sensor | black |
| Housing | Shield | Outer shield |

| Item | Description | Item-No. |
|----------------------------------|---------------------------|---------------------------|
| MC01-D15/f | Motor connector D15 (f) | 0150-3136 |
| MC01-D15/f-as (assembled) | D15/f-Connector assembled | 0150-3073 |

E6k-CONNECTOR EX

MC01-E6k/f-EX



| | | |
|---------|------------------|------------------------------------------|
| A | Phase 1+ | red |
| B | Phase 1- | pink |
| C | Phase 2+ | blue |
| D | Phase 2- | grey |
| PE | Protective Earth | green-yellow |
| 1 | +5V | white |
| 2 | GND | Inner shield (Signal Leads) |
| 3 | Sensor Sine | yellow |
| 4 | Sensor Cosine | green |
| 5 | Temp. Sensor | black |
| 6 | n.c. | - |
| 7 | Kty 1+ | orange |
| 8 | Kty 1- | brown |
| 9 | Kty 2+ | violett |
| 10 | Kty 2- | beige |
| Housing | Shield | Inner shield (Kty Leads) Outer shield |

| Item | Description | Item-No. |
|-------------------------|--------------------------------------------------|---------------------------|
| MC01-E6k/f-EX | Connector with hexagonal union nut | 0150-3538 |
| MC01-E6k/f-EX-as | E/f-Connector with hexagonal union nut assembled | 0150-3641 |

14