

ZK4800-8526-xxxx | Motor connection cable 6 mm² with M40 speedtec[®] plug system, drag-chain suitable



M40, plug, straight, female, Power: 4+PE, Signal: 4, Data: 2 – plug, angled, female, 4-pin – Pitch dimension 3.50 mm, plug, straight, female, 5-pin



Plugs

Electrical data	Head A	Head B	Head C
Rated voltage (power)	630 V AC / 850 V DC	1000 V AC/DC (according to IEC 60664–1, IEC 61984), 600 V (according to UL 1059)	-
Rated voltage (signal/24V)	150 V AC/DC	-	320 V (according to IEC 60664–1, IEC 61984), 300 V (according to UL 1059)
Rated current (power)	70 A max.	70.6 A at 40°C (according to IEC 60664–1, IEC 61984), 60 A at 40°C (according to UL 1059)	-
Rated current (signal/24V)	7 A max.	-	10 A at 40°C (according to IEC 60664–1, IEC 61984), 10 A at 40°C (according to UL 1059)
Rated impulse voltage (power)	6.0 kV	8.0 kV	-
Rated impulse voltage (signal/24V)	2.5 kV	-	2.5 kV

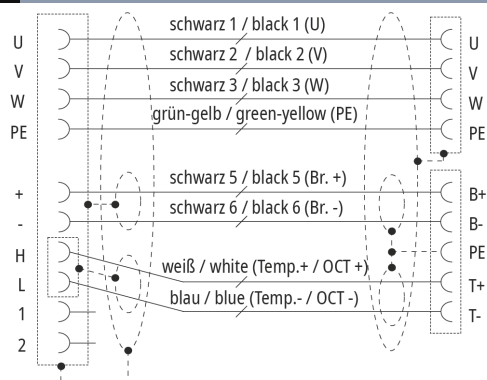
Contact resistance	< 5 mΩ (signal), < 1 mΩ (power)	4.5 mΩ	< 5 mΩ
Insulation resistance	-	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Insulation group	-	I	IIIa
Mechanical data			
Accessories type	Connectors	Connectors	Connectors
Installation size	M40	-	Pitch dimension 3.50 mm
Connector type	plug	plug	plug
Configuration	straight	angled	straight
Contact type	female	female	female
Number of positions (face)	Power: 4+PE, Signal: 4, Data: 2	4-pin	5-pin
Wire termination	crimp connection	Clamping yoke connection	Clamping yoke connection
Recommended torque, screw termination	-	1.2...1.5 Nm	0.2...0.25 Nm
Recommended torque, screw flange	-	0.6 Nm	0.15...0.2 Nm
Mating cycles	500	25	25
Way of locking	Speedtec®	flange and screw	screw
Weight	0.450 kg (0.9921 lb)	0.057 kg (0.1257 lb)	0.004 kg (0.0088 lb)
Body color	metal	black, similar to RAL 9011	black, similar to RAL 9011
Body material	zinc diecast/nickel plated	PA GF, UL 94 V-0	PBT, UL 94 V-0
Seal	FKM	-	-
Clamp ring	zinc diecast/nickel plated	-	-
Contact carrier material	PA 6.6 mod., UL 94 V-0	PA GF, UL 94 V-0	PBT, UL 94 V-0
Contact material	brass/gold plated	copper alloy	copper alloy
Max. wire cross-section	-	AWG22...AWG4	AWG28...AWG14 (0.2 mm ² ...1.5 mm ²)
Environmental data			
Special features	Max. height for operation 2000 m	-	-
Ambient temperature (operation)	-20...+130°C, -4...+266°F	-50...+130°C, -58...+266°F	-50...+100°C, -58...+212°F
Protection rating	IP66/67 in screwed condition	IP20	IP20
Pollution level	3 (according to VDE 0110/EN61984 part 6.19.2.2)	3	3
UL	yes, UL E-file number: E247738	-	yes, UL E-file number: E60693

Overvoltage category	3 (according to VDE 0110/EN61984 part 6.19.2.2)	3	3
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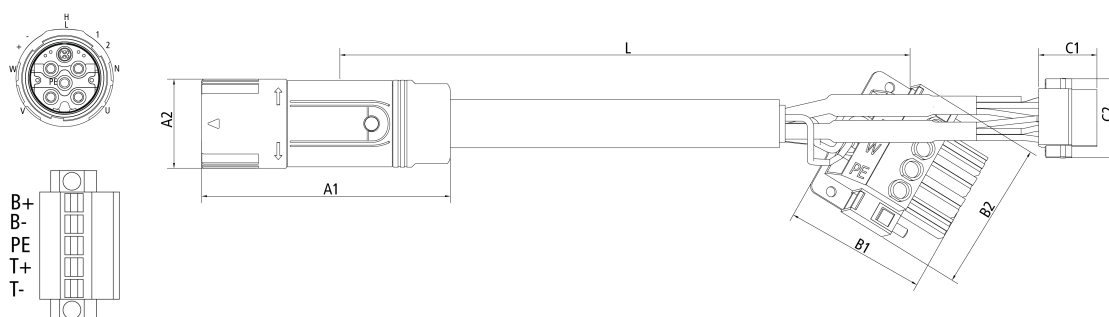
Cable

Electrical data	
Operating voltage	max. 1000 V AC (UL), U ₀ /U 600/1000 V (VDE)
Insulation resistance	≥ 20 MΩ * km
Mechanical data	
Cross-section (power)	6 mm ² (approx. AWG10)
Cross-section (signal)	AWG22 (approx. 0.34 mm ²)
Cross-section (brake)	1.00 mm ² (approx. AWG18)
Outer cable diameter	18.0 mm ± 0.4 mm (0.7087" ± 0.0157")
Min. bending radius, moved in drag-chain	7 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	540 kg/km (362.826 lb/1000 ft)
Conductor material	copper bare
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	30 m/s ² by 5 m travel distance 15 m/s ² by 10 m travel distance 5 m/s ² by 20 m travel distance
Max. speed	4 m/s
Max. travel distance	20 m (horizontal) 5 m (vertical)
Max. number of cycles	5 million
Jacket color	orange
Material jacket	PUR (polyurethane)
Wire insulation material	PP (polypropylene)
Printing color	black
Environmental data	
Operation temperature range, moved	-30...+80°C, -22...+176°F
Operation temperature range, fixed installation	-40...+80°C, -40...+176°F
Oil resistance	yes
Flame-retardant	according to IEC 60332-1-2
Halogen-free	yes
Silicone-free	yes

Pin assignment



Dimensions



A1	100.00 mm
A2	46.00 mm
B1	137.00 mm
B2	52.00 mm
C1	19.00 mm
C2	25.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply: $\pm 2\text{-}3\%$
- Illustrations similar
- The last three digits of the ordering information is the cable length in decimeters, e.g. ZK4xxx-xxxx-x020 = cable length 2.00 m

Ordering information

Length

ZK4800-8526-0020	2.00 m
ZK4800-8526-0050	5.00 m
ZK4800-8526-0080	8.00 m
ZK4800-8526-0100	10.00 m

ZK4800-8526-0120	12.00 m
ZK4800-8526-0150	15.00 m
ZK4800-8526-0170	17.00 m
ZK4800-8526-0190	19.00 m
ZK4800-8526-0200	20.00 m
ZK4800-8526-0220	22.00 m
ZK4800-8526-0260	26.00 m
ZK4800-8526-0250	25.00 m
ZK4800-8526-0270	27.00 m
ZK4800-8526-0280	28.00 m
ZK4800-8526-0300	30.00 m
ZK4800-8526-0330	33.00 m
ZK4800-8526-0310	31.00 m
ZK4800-8526-0500	50.00 m

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