

**Motor cable ZK4500-8062-zzzz**



Plug connector	Contact	Function	Core identification	Contact	Plug connector
<p>Mating view</p>	A	U	black / 1	U	
	B	W	black / 3	W	
	C	V	black / 2	V	
	1	Brake +	5	Brake + / 1	
	2	Brake -	6	Brake - / 2	
	3	Temp. + / OCT +	white	Temp. + / OCT + / 4	
	4	Temp. - / OCT -	blue	Temp. - / OCT - / 5	
	5	-	-	-	
	⊕	PE	green / yellow	PE	

Catalog data	
Catalog text	1 mm <sup>2</sup> with i-Tec plug , highly flexible, for robot application use
Servomotor	AM802x and AM803x, AM853x, AM301x
Servo Drive	AX5000 (1.5...6 A)
Catalog description	(4x1.0mm <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> ) / ≤ 19.5 Ω/km (1.0 mm <sup>2</sup> ), DIN EN 50395
Insulation resistance	≥ 500 MΩ x km, DIN EN 50395
Max. acceleration	score / screen ≤ 150 pF/m (1.0mm <sup>2</sup> ), EN 50289-1-5

Mechanical properties	
Outside diameter d	12,6 ± 0, 3 mm
Min. bending radius	5 x d for fixed installation / 12 x d for dynamic use
Max. driven speed	240 m/min
Max. acceleration	30 m/s <sup>2</sup> (at 5 m movement)
Max. allowable travelling distance	20 m horizontal / 5 m vertical
Max. torsion	± 180°/m
Max. bending cycles	2 Mio.
Operating temperature	-20°C to +60°C
Shield optical	>90 %

Properties cable	
Material outer sheath	TPU, flame retardant, halogen free
Color	Orange, like RAL 2003
Weight	0.215 kg/m
RoHS conformity	yes
Silicon-free	yes
Halogen-free	DIN VDE 0472 T815
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 21223 (Outer sheath) and Style 10492 (Core)

Properties motor plug	
Housing	brass, zinc diecast; nickel-plated and plastic-coated
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 AX5000 plug	
Contact material	Cu-Leg
Contact surface	tin-plated
Insulator	PBT
Licence	CSA, UL 1059
RoHS conformity	yes

