

Motor cable ZK4500-8063-zzzz



Plug connector	Contact	Function	Core identification	Contact	Plug connector
<p>Mating view</p>	A	U	black / 1	U	
	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 ² with M23-speedtec® plug, highly flexible, for robot application use
Servomotor	AM883x and AM8x4x up to AM8x6x
Servo Drive	AX5000 (1.5.....12 A)
Catalog description	(4x1.5mm ² + (2x0.75mm ²) + (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 ²) / ≤ 13.3 Ω/km (1.5 mm ²), DIN EN 50395
Insulation resistance	≥ 500 MΩ x km, DIN EN 50395
Operating capacity at 800 Hz	score / screen ≤ 150 pF/m (1.5mm ²), EN 50289-1-5

Mechanical properties	
Outside diameter d	12.8 ± 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 ² (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	>85 %

Properties cable	
Material outer sheath	TPU, flame retardant, halogen free
Color	Orange, like RAL 2003
Weight	0.25 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 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 AX5000 plug	
Contact material	Cu-Leg
Contact surface	tin-plated
Insulator	PBT
Licence	CSA, UL 1059
RoHS conformity	yes

