

SERVO SINGLE CABLE

伺服单根电缆 (600V)



应用场合 APPLICATION	伺服电机用动力+信号控制，高柔，高强度，频繁移动 Power and Encoder control cable for servo system, flexible installation, with high mechanical stress
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电缆结构 CABLE CONSTRUCTION



01 导体 CONDUCTOR

精细绞合裸铜丝—IEC 60228 6类—VDE 0295 6类
Fine stranded bare copper wire acc. to IEC 60228 Cl.6, VDE0295 Cl.6

02 芯线绝缘 CORE INSULATION

特殊热塑性聚酯弹性体TPE
Polypropylene (PP), or Thermoplastic Elastomer(TPE)
芯线标识：动力线：黑色，印白色数码字1-3，黄色/绿色
Core Identification: Power core: Black, with digital number 1-3, GNYE
绞线标识：信号线：蓝色-白色；控制线：灰-白色数码字
Pair Identification: Signal core: Blue-White; Control core: Gray - White digital number

03 绞合 CABLING

所有芯线绞合+填充+包带
Four wires and pairs twisted in layers with fillers in foil

04 绞线屏蔽 PAIR SHIELD

镀锡铜丝，密度>85%
Shield braiding of tinned copper wires, covering > 85 %

02 总屏蔽 SHIELD

镀锡铜丝，密度>85%
Shield braiding of tinned copper wires, covering > 85 %

04 护套 JACKET

聚氨酯弹性体PUR
Polyurethan(PUR)
护套颜色：橙色 RAL2003
Jacket Color: Orange acc. to RAL 2003

技术参数

额定电压	600V
测试电压	动力线: 3kV 50Hz AC, 芯-屏蔽 信号线: 0.5kV DC, 芯-屏蔽 控制线: 3kV 50Hz AC, 芯-屏蔽
温度范围	-5°C~+80°C (移动安装)
特性阻抗	110 ± 10 Ω (@ 10 MHz)
电容	max. 50 pF/m @ 1 kHz (芯/芯) max. 180 pF/m @ 1 kHz (芯/屏蔽)
弯曲半径	≥10倍电缆外径 (移动安装)
弯曲寿命	500万次
扭转	如对此有特殊要求，请联系我们技术部门

TECHNICAL DATA

Nominal voltage	600V
Test voltage	Power core: 3kV 50Hz AC, core-shield Signal core: 0.5kV DC, core-shield Control core: 3kV 50Hz AC, core-shield
Temperature range	-5°C~+80°C (flexible installation)
Characteristic impedance	110 ± 10 Ω (@ 10 MHz)
Capacitance	max. 50 pF/m @ 1 kHz (core-core) max. 180 pF/m @ 1 kHz (core-shield)
Bending Radius	≥ 10D (flexible installation)
Bendings	5.000.000 cycles
Torsion	If necessary, Please contact our technical department

性能特征 SPECIAL FEATURES



电缆符合UL758、UL1581规范要求
Cables comply with UL758、UL1581



高柔性，可应用移动场合
High endurance for trailing applicable



优异的EMC性能
Very good EMC performance



耐油性能满足UL1581，VDE 472-803 Part B
Oil resistant acc. To UL1581, VDE 472-803 Part B



阻燃等级满足IEC 60332-1，UL VW-1
Flame retardant and self-extinguishing acc. To IEC 60332-1, UL VW-1



产品符合RoHS、Reach环保要求
Cables comply with RoHS、Reach environmental requirements

标准规格 STANDARD

高柔伺服单根电缆

规格Dimensions[Guage] mm ² [AWG]	参考外径 Outer diameter mm (Ref)
[4G1,5+[2x0,24]]	11,5 ± 0,5
[4G1,5+[2x0,34]]	11,5 ± 0,5
[4G1,5+[2x0,24]+[2x0,75]]	13,0 ± 0,5
[4G1,5+[2x0,34]+[2x0,75]]	13,0 ± 0,5

备注：所列产品为标准结构，特殊需求可定制。