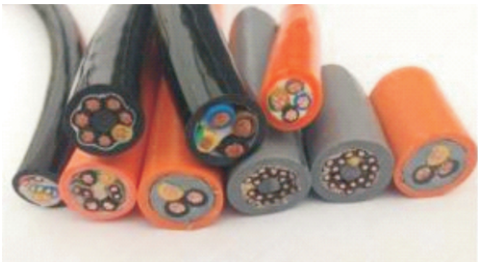
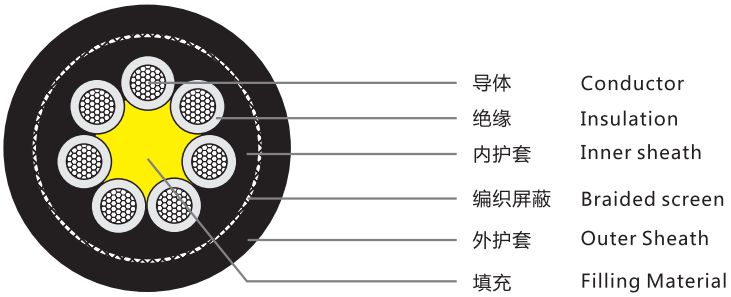
超柔性机器人电缆
Ultra Flexible Robot-Cable

通鼎集团 TONGDING GROUP

产品结构示意图 Cross-sectional view





产品特点 Characteristics

- 具有极强的的弯曲性能和扭转性能
  Excellent Bending and Torsion Property
- 具有较高的阻燃性能
  Flame Resistance
- 具有较高的耐低温性能
  Low-temperature Resistance
- 具有较高的耐油性能
  Oil Resistance
- 具有极佳的抗电磁干扰特性
  Excellent Performance of Anti-electromagnetic Interference

技术特性和参数 Technical specifications

机械物理特性 Mechanical and physical properties	
项目 Items	技术要求 Requirements
曲挠试验 Flexure torsion test	往复10万次双向弯曲，即200000次单向弯曲。 Reciprocating a hundred thousand two-way bending, that is, two hundred thousand one-way bending
扭转试验 Torsion test	扭转速度360°/s，逆时针顺时针交替扭转360°为一次，共600万次双向扭转，即1200万次单向扭转。 The torsion speed is 360 degrees /s, anticlockwise and clockwise to turn 360 degrees to one time, a total of 6 million two-way torsion, that is, 12 million one-way torsion.
燃烧性能 Combustion performance	按照GB/T 18380.12-2008规定的单根垂直燃烧试验；pH值≥4.5，电导率≤8μS/mm。 In accordance with the GB/T18380.12-2008 GB/T single vertical burning test; pH value is more than or equal to 4.5, the conductivity less than or equal to 8 mu S/mm.
低温性能 Low temperature performance	成品-25℃低温冲击试验、低温弯曲试验不开裂；-25℃低温拉伸试验≥30%。 The finished product, -25 low temperature impact test, bending test at low temperature cracking; -25 low temperature tensile test is more than 30%
耐油性能 Oil resistance	试验用IRM 902#油，油温100±2℃/24h，试验后断裂伸长率变化率最大±40%，抗张强度变化率最大±40%。 Using IRM 902# test oil, oil temperature is 100±2℃/24h. after the test, the maximum variation rate of elongation is ±40% tensile strength, maximum change rate of ±40%
屏蔽电缆屏蔽性能 Shielding performance of shielded cabl	屏蔽抑制系数≤0.05 The shielding inhibition coefficient is less than or equal to 0.05

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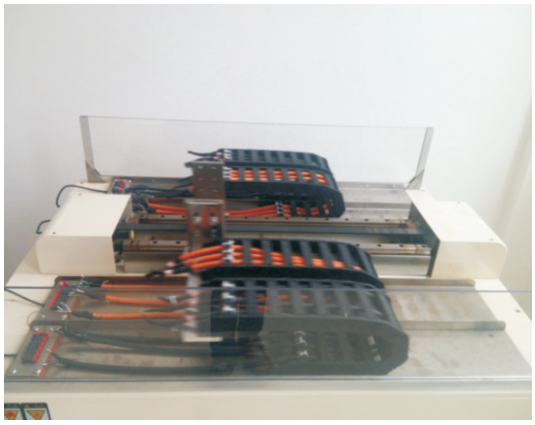
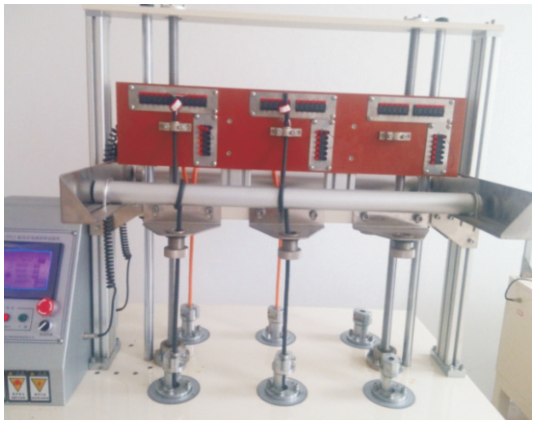


- 拖链测试　Drag chain test

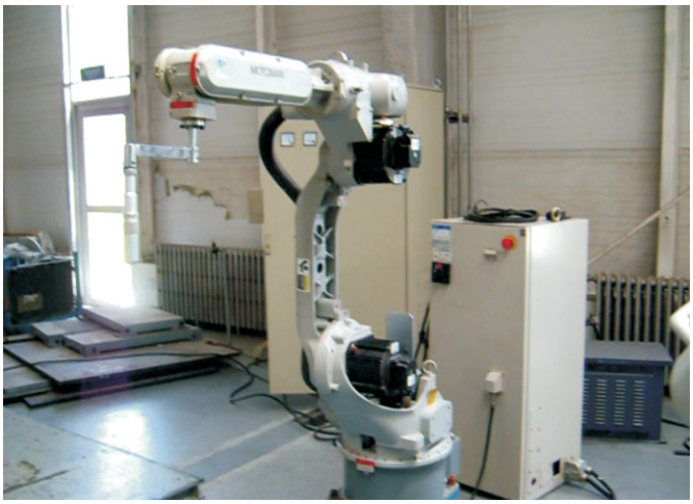
- 弯曲测试　Bend test



- 扭转测试　Torsion test

- 耐油测试　Oil resistance test

应用方案　Solution



- 本产品主要是作为机器人设备中手臂和设备本身连接线或耐扭力和耐弯曲应力同时存在的各种场合

  This product is mainly used as the robot equipment in the arm and the equipment itself connection line or the torsion resistance and bending stress exist in various occasions at the same time