

Servo cables according to BOSCH REXROTH standard for extremely dynamic applications, PUR jacket, shielded, resistant to oils, flame retardant, halogen-free

### STANDARDS

**Product** UL and CSA approval

**UL Recognized / CSA**

UL AWM 80°C 1000V  
CSA AWM I/II A/B 80°C 1000V

**Oil Resistance:**

EN 60811-2-1

**Flame Resistance:**

EN 50265-2-1, CSA FT1, UL 1581

**Toxicity:**

Halogen free

### DESIGN

1. **Conductor:** Stranded bare copper
2. **Core insulation:** Polyolefin
3. **Core stranding:** Power cores stranded with fillers
4. **Core identification:**  
Power: U/L1/C/L+; V/L2; W/L3/D/L-; GN/YE  
Signal: Black numbered 5-6; 7-8
5. **Shield:**  
Total shield: Tinned copper braid, coverage ≥85%  
Pairs shield: ALU/PET foil + Tinned copper braid, coverage ≥85%
6. **Jacket:** PUR
7. **Colour:** Orange, RAL 2003  
(available also in Green RAL 6018)



**Reference:** 10553139

**Country Ref.:** 13-EBY05Z08P-A5

**EAN 13:** 8054803122164

### CONTACT

Market information  
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Halogen free  
Yes



Operating temp.  
-30 ... 80 °C



Storage temperature, range  
-50 ... 80 °C



Oil resistance  
EN 50363-10-2



Flame retardant  
IEC/EN 60332-1-2; FT1; UL 1581 FT1

**CHARACTERISTICS****Construction characteristics**

Construction type	(4G16 + 2x(2x1.5)C)C
Conductor material	Stranded bare copper
Insulation	Polyolefin
Insulation colour	Power: U/L1/C/L+ V/L2 W/L3/D/L- Ye/Gr Signal: Black num 5-6 7-8
Lay Up	power cores and control pairs stranded with filler
Taping	Non woven tape
Shielding	≥85% tinned copper braid coverage
Outer sheath	PUR
Sheath colour	Orange RAL 2003
Halogen free	Yes

**Dimensional characteristics**

Nominal outer diameter	23.6 mm
Copper content	903 kg/km
Approximate weight	1150 kg/km

**Electrical characteristics**

Rated Voltage U <sub>o</sub> /U	0.6/1 kV
Test voltage	4000 V

**Mechanical characteristics**

Maximum acceleration	50 m/s <sup>2</sup>
Bending cycles	10 Mio.
Speed	300 m/min

**Usage characteristics**

Field of application	Dynamic
Minimum dynamic operating bending radius	7.5 (xD)
Operating temperature, range	-30 ... 80 °C
Storage temperature, range	-50 ... 80 °C
Oil resistance	EN 50363-10-2
Flame retardant	IEC/EN 60332-1-2; FT1; UL 1581 FT1