



### CONTACT

Market information  
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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

### DESIGN

**Conductor**

Stranded bare copper

**Core insulation**

Polyolefin

**Core stranding**

Power cores stranded with fillers

**Core identification**

Power:

U/L1/C/L+ V/L2

W/L3/D/L- Ye/Gr

**Signal:**

Black numbered 5-6 7-8

**Shield**

Total shield:

Tinned copper braid, coverage >= 85%

**Jacket**

PUR

Colour:

Orange RAL 2003

(available also in Green RAL 6018)

### NORMATIVE REFERENCE

**Normative reference**

**UL Recognized / CSA**

AWM 80°C - 600V/1000V

AWM 80°C - 600V/1000V FT1

**Oil Resistance:**

En 50363-10-2

**Flame Resistance:**

IEc 60331-1-2; FT1; UL 1581; EN 50265-2-1

**Toxicity:**

Halogen free



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**

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

**Electrical characteristics**

Rated Voltage Uo/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

**PRODUCT LIST**

Reference	Country Ref.	Name	Construction type	Nominal outer diameter [mm]	Copper content [kg/km]
10553152	13-EBY19Z08P-A5	(4G0,75 + 2x(2x0,34 ) C)C	(4G0.75 + 2x(2x0.34)C)C	9.6	93
10553151	13-EBY17Z08P-A5	(4G1,00 + 2x(2x0,75 ) C)C	(4G1.0 + 2x(2x0.75)C)C	11.6	170
10553147	13-EBY15Z08P-A5	(4G1,50 + 2x(2x0,75 ) C)C	(4G1.5 + 2x(2x0.75)C)C	11.8	189

= Make to order, = In stock,



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

Reference	Country Ref.	Name	Construction type	Nominal outer diameter [mm]	Copper content [kg/km]
10553144	13-EBY13Z08P-A5	(4G2,50 + 2x(2x1 )C)C	(4G2.5 + 2x(2x1.0)C)C	13.0	234
10553142	13-EBY11Z08P-A5	(4G4 + (2x1)C+(2x1,5 )C)C	(4G4 + (2x1.5)C + (2x1.0)C)C	16.0	320
10553141	13-EBY09Z08P-A5	(4G6 + (2x1)C+(2x1,5 )C)C	(4G6 +(2x1.5)C + (2x1.0)C)C	18.1	395
10553140	13-EBY07Z08P-A5	(4G10 + (2x1)C+(2x1,5 )C)C	(4G10 + (2x1.5)C + (2x1.0)C)C	20.4	620
10553139	13-EBY05Z08P-A5	(4G16 + 2x(2x1,5)C)C	(4G16 + 2x(2x1.5)C)C	23.6	903
10553138	13-EBY03Z08P-A5	(4G25 + 2x(2x1,5 )C)C	(4G25 + 2x(2x1.5)C)C	27.6	1310

= Make to order, = In stock,



Halogen free  
Yes



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



Oil resistance  
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Flame retardant  
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