



### CONTACT

Market information  
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servo cables according to Lenze standard for dynamic applications, PUR jacket, shielded, resistant to oils, flame retardant

### STANDARDS

Product UL and CSA approval

### DESIGN

**Conductor**  
Bare copper  
**Core insulation**  
from 1 to 2,5 mm<sup>2</sup>:  
Polyolefin  
from 4 to 10 mm<sup>2</sup>:  
Polyester  
**Core stranding**  
Power cores and  
signal pair stranded  
with fillers  
**Core identification**  
Power: Black num  
+ Yellow/Green  
Signal: Black + White  
**Shield**  
Total shield:  
Tinned copper braid,  
coverage >= 80%  
**Jacket**  
PUR  
**Colour:**  
Orange RAL 2003

### NORMATIVE REFERENCES

#### Oil resistant

IEC 50363-4-1

#### Flame retardant

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



Halogen free  
Yes



Operating temp.  
-5 ... 80 °C



Storage temperature, range  
-30 ... 80 °C



Oil resistance  
EN 50363-10-2



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

## CHARACTERISTICS

### Construction characteristics

Conductor material	Bare copper
Insulation colour	Power: Black num 1-3 + Green/Yellow; Signal: Black-White
Lay Up	power cores and control pairs stranded with filler
Taping	Non woven tape
Shielding	80% 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

Bending cycles	2.5 Mio.
Speed	180 m/min
Maximum acceleration	10 m/s <sup>2</sup>

### Usage characteristics

Field of application	Dynamic
Operating temperature, range	-5 ... 80 °C
Storage temperature, range	-30 ... 80 °C
Minimum dynamic operating bending radius	10 (xD)
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	Insulation	Outer Diameter [mm]
10552707	13-EBE17Z06P-A1	(4G1,0 + (2x0,5)C)C	(4G1 + (2x0.5)C)C	Polyolefin	10
10552703	13-EBE15Z06P-A1	(4G1,5 + (2x0,5)C)C	(4G1.5 + (2x0.5)C)C	Polyolefin	11.5
	13-EBE13Z06P-A1	(4G2,5 + (2x0,5)C)C	(4G2.5 + (2x0.5)C)C	Polyolefin	13.2
	13-EBE11Z06P-A1	(4G4 + (2x1,0)C)C	(4G4 + (2x1.0)C)C	Polyester	14.6
	13-EBE09Z06P-A1	(4G6 + (2x1,0)C)C	(4G6 + (2x1.0)C)C	Polyester	16.8
	13-EBE07Z06P-A1	(4G10 + (2x1,0)C)C	(4G10 + (2x1.0)C)C	Polyester	20.1

= Make to order, = In stock,