



**Reference:** 10553112  
**Country Ref.:** 13-EBU17G04P  
**EAN 13:** 8054803122706

#### CONTACT

Market information  
 industryprojects.business@lynxgroup.com

servo motor cables according to SIEMENS standard 6FX8008PLUS for extremely dynamic applications, PUR jacket, shielded, resistant to oils, flame retardant, halogen free

#### STANDARDS

**Product** UL and CSA approval

#### DESIGN

**Conductor**  
 Standed 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

**Shield**  
*Total Shield:*  
 Tinned copper braid, coverage  $\geq 80\%$

**Jacket**  
 PUR  
 Colour: Orange RAL 2003  
 (available also in black)

#### CHARACTERISTICS

**Normative Reference**  
**UL recognised / 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; UL1581; 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

|                    |   |
|--------------------|---|
| Construction type  | (4G1)C                                  |
| Conductor material | Stranded bare copper                    |
| Insulation         | Polyolefin                              |
| Insulation colour  | U/L1/C/L + V/L2 W/L3/D/L - Yellow/Green |
| Lay Up             | Power cores stranded with filler        |
| Taping             | Non woven tape                          |
| Shielding          | 80% tinned copper braid coverage        |
| Outer sheath       | PUR                                     |
| Sheath colour      | Orange RAL 2003                         |
| Halogen free       | Yes                                     |

### Dimensional characteristics

|                         |                   |
|-------------------------|-------------------|
| Conductor cross-section | 1 mm <sup>2</sup> |
| Nominal outer diameter  | 8.1 mm            |
| Copper content          | 69 kg/km          |
| Approximate weight      | 104 kg/km         |

### Electrical characteristics

|                                 |          |
|---------------------------------|----------|
| Rated Voltage U <sub>0</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 |



Halogen free  
Yes



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Oil resistance  
EN 50363-10-2



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