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CONTACT

Market information
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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
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

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	(4G2,5)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	2.5 mm ²
Nominal outer diameter	10.6 mm
Copper content	145 kg/km
Approximate weight	220 kg/km

Electrical characteristics

Rated Voltage U ₀ /U	0.6/1 kV
Test voltage	4000 V

Mechanical characteristics

Maximum acceleration	50 m/s ²
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