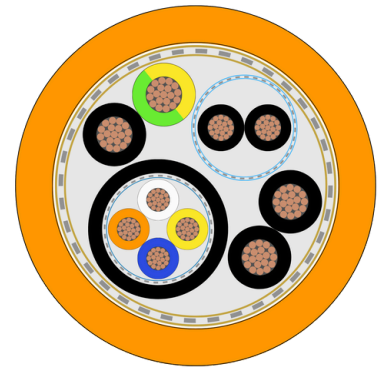








SERVO BOSCH ACURO LINK








A ACURO16-24 PUR
AWM Style 21223 (80°C / 1000V)






General Construction 1x(4xAWG24)C – EtherNet Cat.5e

-  **Conductor:** Stranded bare copper wire; nom. 0,20mm² - AWG24; nominal diameter 0,60mm. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58
-  **Insulation:** PE compound; nominal diameter 1,45mm
-  **Color Cores:** White – yellow – blue – orange
-  **Shield:** Al/PET tape (aluminium face outside); nominal optical coverage 100% + braid type; tin copper wire; nominal optical coverage 85%
- Sheath:** Thermoplastic elastomer polyolefin based; nom. diameter 5,10mm; colour black similar RAL 9005
- Assembly:** Four cores stranded together

General Construction 1x(2xAWG19)C

-  **Conductor:** Stranded bare copper wire; nom. 0,75mm² - AWG19; nominal diameter 1,20mm. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58
-  **Insulation:** PP compound; nominal diameter 1,90mm
-  **Color Cores:** black numbered 7 and 8
-  **Shield:** braid type; tin copper wire; nominal optical coverage 85%
-  **Protective Tape:** tape under and over screen
- Assembly:** two cores twisted together

General Construction 4xAWG16

-  **Conductor:** Stranded bare copper wire; nom. 1,50mm² - AWG16; nominal diameter 1,55mm. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58
-  **Insulation:** PP compound; nominal diameter 2,40mm
-  **Color Cores:** Black numbered 1 to 3 + green/yellow

Shield

Braid type; tin copper wire; nominal optical coverage 85%

Assembly

1x(4xAWG24)C + 1x(2xAWG19)C + 4xAWG16 stranded together around a central filler;
some fillers could be used for a better roundness

Protective Tape

First: nonwovens tape (TNT) over total assembly

Second: nonwovens tape (TNT) over total screen

Sheath

Outer sheath: PUR (ether base), 90 ShA; diameter 13,0 ±0,30mm

Colour: Orange similar RAL 2003; conform to UL Style 21223

Electrical (Ethernet Cat.5e)

Test voltage (AWG24): 1500 V x 1 min.

Electric resistance (AWG24): 97,5 Ω/Km (IEC 60344)

Characteristic impedance: 100Ω ±15Ω

Capacitance: 55 pF/m ±15 pF/m

Capacitance (core/screen): 105 pF/m ±15 pF/m

Nominal inductance: 0,5 μH/m

Movement Data



Speed: 300 m/min









Acceleration: 50 m/sec²





Torsion: +30°/1m

Technical data

	Bending Radius:	5 x Ø (Fixed) / $\geq 7,5 \times \text{Ø}$ (Flex) / $\geq 15 \times \text{Ø}$ (Flex)
	Flame Resistance:	UL Cable Flame Test; CSA FT1; IEC 60332-1-2
	Nominal Voltage:	100Vrms
	Test Voltage:	(AWG19): 3000 V x 1 min. / (AWG16): 4000 V x 1 min. / (C/S): 1500 V x 1 min.
	Electric resistance:	(AWG19): 27,7 Ω /Km (IEC 60344) / (AWG16): 13,7 Ω /Km (IEC 60344)
	Temperature:	40°C to +80°C (Fixed) - 30°C to +80°C (Flexible)
	Oil Resistance:	According to UL758
	Insulation resistance:	$\geq 1 \text{ G}\Omega \times \text{Km}$

Approval

	UV Resistance according to UL 1581
	Silicone, Pb, FCKW free

Name	Cable Type	Ø mm	Tolerance
ACURO16-24	4 x 1,5 + 1 x (2 x 0,75) + 1 x (4 x 0,20)	13	$\pm 0,30 \text{ mm}$

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