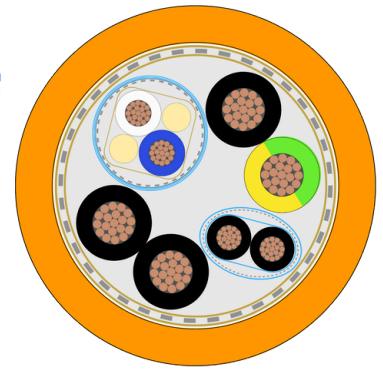







**SERVO BECKHOFF  
DSL**








BECKOFFDSL18 PUR  
AWM Style 21223 (80°C / 1000V)








#### General Construction 4xAWG18

-  **Conductor:** Stranded bare copper wire (Class 6); nom. 1 mm<sup>2</sup> - AWG18; nominal diameter 1,35mm; VDE 0295. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58
-  **Insulation:** Polyolefin compound; nominal diameter 2,1mm
-  **Color Cores:** Black numbered 1 to 3 + green/yellow

#### General Construction 1x(2xAWG22)C

-  **Conductor:** Stranded bare copper wire (Class 6); nom. 0,34mm<sup>2</sup> - AWG22; nominal diameter 0,75mm; VDE 0295. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58
-  **Insulation:** Foam polyolefin compound; nominal diameter 2mm
-  **Color Cores:** White – blue
-  **Shield:** Braid type; Un copper wire; nominal opUcal coverage 85% + bi-aluminized; nonwovens tape over braid screen
-  **Protective Tape:** Tape over assembly + two tapes over tape screen
- Assembly:** Two cores twisted to a pair with two solid fillers in gap

#### General Construction 1x(2xAWG19)C

-  **Conductor:** Stranded bare copper wire (Class 6); nom. 0,75mm<sup>2</sup> - AWG19; nominal diameter 1,2mm; VDE 0295. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58
-  **Insulation:** Polyolefin compound; nominal diameter 2mm
-  **Color Cores:** Black numbered 5 and 6
-  **Shield:** Al/PET tape; aluminum face outside; opUcal coverage 100% + braid type; tin copper wire; nominal optical coverage 85%
-  **Protective Tape:** Tape over screen
- Assembly:** Two cores twisted to a pair

## Assembly

4x18AWG + 1x(2x22AWG)C + 1x(2x19AWG)C stranded together around a central fibrous filler; some fillers could be used for a better roundness

## Screen

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

## Sheath

**Outer sheath:** PUR (ether base), 90 ShA; diameter 11,6 ±0,4mm

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

## Protective Tape

Tape under and over total screen

## Movement Data @20°C



**Bending cycles:** up to 5Mio (10 Mio stroke)

**Bending radius:** 7,5 x D (Flexible) - 5 x D (Fixed)

## Technical data



**Nominal Voltage:** 1000Vrms



**Test Voltage C/C:** (AWG18) 4000 Vac / (AWG19) 3000 Vac / (AWG22) 700 Vac



**Temperature:** -40°C to +80°C (Fixed) - 20°C to +80°C (Flexible)



**Oil Resistance:** According to UL758

**Electric resistance:** (AWG18): 19,8 Ω/Km (IEC 60344)

(AWG19): 27,7 Ω/Km (IEC 60344)

(AWG22): 62,4 Ω/Km (IEC 60344)

**Mutual capacity:** (AWG22): 45 ±15 pF/m (800-1000Hz)

**CharacterisUc impedance (AWG22):** 110 ±10 Ω



**Flame Resistance:** UL Cable Flame Test; CSA FT1; IEC 60332-1-2

## Approval



Halogen free according to CEI EN 60754-1 / VDE 0482-754-1



Silicone, Pb, FCKW free

Name	Cable Type	Ø mm	Tolerance
BECKOFFDSL18	4 x 1 + 1 x (2 x 0,34) + 1 x (2 x 0,75)	11,60	±0,40 mm

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