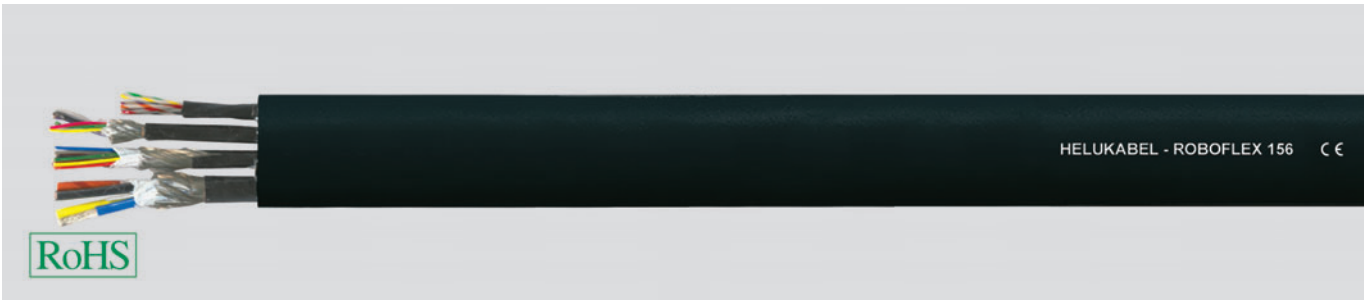


# ROBOFLEX 156-flat PUR, flame retardant, halogen-free, for torsional stress



## Technical data

- Special TPE-E/PUR robot cable adapted to DIN VDE 0245, 0250, 0281, 0282
- **Temperature range**  
flexing -40 °C to +80 °C
- **Nominal voltage**  
up to 0,34 mm<sup>2</sup> 350 V  
0,5 mm<sup>2</sup> and greater 300/500 V
- **Test voltage**  
up to 0,5 mm<sup>2</sup> 1500 V  
0,5 mm<sup>2</sup> and greater 3000 V
- **Insulation resistance**  
min. 20 MΩm x km
- Max. **torsion angle**  
±360 °/metre
- **Mutual capacitance** (signal cores)  
core/core approx. 100 nF/km  
core/screen approx. 120 nF/km
- **Minimum bending radius**  
approx. 15x cable ø

## Cable structure

- Tinned copper conductor, 19x0,32/1,5 mm<sup>2</sup>, 19x0,102/0,15 mm<sup>2</sup>
- 4 stranded cores 1,5 mm<sup>2</sup>  
Screen of tinned copper braid  
TPE-E sheath, black
- 12 cores 0,15 mm<sup>2</sup> stranded together  
Screen of tinned copper braid  
TPE-E sheath, black
- 6 cores 0,15 mm<sup>2</sup> stranded in paired  
Screen of tinned copper braid  
TPE-E sheath, black
- 10 stranded cores 0,15 mm<sup>2</sup>  
Screen of tinned copper braid  
Black TPE-E sheath
- Over the 4 elements in parallel PUR sheath
- Outer sheath colour black

## Properties

- The smooth, very high quality core insulation, together with the special threading lay and the sliding wrapper ensure a long service life under combined bending and torsional stress
- PUR sheath, matt, low adhesion, flame retardant

## Application

These cables are specially designed for combined torsional and bending stresses. They are employed both for power supply and for the transmission of control and monitoring signals. Roboflex cables are used in assembly and welding robots, in handling and automation centres, in transport and conveyor equipment, and on turntables and swivel tables. In other words, anywhere where there is no defined cable routing with only alternating bending cycles in one plane, such as in energy supply chains, for example.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
78499	( 4 x 2 + 12 x 0,15 + 3 x 2 x 0,15 + 10 x 0,15)	7,2	128,6	200,0	16

Dimensions and specifications may be changed without prior notice. (RH01)

