

## Robot primary cable



### Cable design

#### Internal conductor

- Special conductor
- Strand class VI (super-fine wire)
- Highly flexible

#### Core insulation

- TPM or PUR

#### Core identification

- Black cores with continuous white numbering
- PE conductor green/yellow

#### Core stranding

- With very short lay length, reeled around a filler element in one layer for design reasons.

#### Outer sheath

- Special PUR

### Cable properties

#### PUR self-extinguishing and flame retardant

- according to IEC 60332-1 / EN 50265-2-1

#### Oil-resistant

- acc. to VDE 0472

#### Halogen-free

- Based on EN 50267-2-1

#### Silicone-free

- The materials used in manufacture are free of silicone and cadmium, as well as of substances that impair paint wetting

#### Lead-free

- Based on EU Directive (RoHS) 2002/95/EC

### Advantages

- Extremely high resilience to mechanical loads
- For extreme loadings
- High flexibility, even at very low temperatures

### Application

Primary cables for the most extreme applications.

These robot cables are absolutely torsion-loadable and are highly resistant to flexural stresses. They are particularly suitable for automated production processes with 3D movements, such as occur in the automotive industry, general engineering and plant construction.



RoHS  
compliant

## Robot primary cable

### Technical data

**Nominal voltage:**

$U_0/U$ : 600 V/1,00 V

**Insulation resistance:**

min. 100 M $\Omega$  x km

**Temperature range when moving:**

-40 °C to +80 °C max. conductor temp.

**Temperature range static:**

-50 °C to +80 °C max. conductor temp.

**Minimum bending radius flexing:**

10 x Cable diameter

**Minimum bending radius static:**

5 x Cable diameter

Designation:	Order no.	Colour	Ø in mm:	CU kg/km:	Weight kg/km:	Minimum bending radius (mm):	Remarks
Primary cable 1x25 mm <sup>2</sup>	82854001	Black	10.8	238.0	278.0	108.0	
Primary cable 1x25 mm <sup>2</sup>	82854002	bk/gnye	10.8	238.0	278.0	108.0	
Primary cable 1x35 mm <sup>2</sup>	82854003	Black	11.8	332.0	371.0	118.0	
Primary cable 3x16 mm <sup>2</sup>	82851010	Orange	21.4	460.8	721.0	214.0	
Primary cable 3x25 mm <sup>2</sup>	82854005	Yellow	22.3	720.0	965.0	223.0	
Primary cable 3x35 mm <sup>2</sup>	82854006	Orange	24.7	1008.0	1229.0	247.0	
Primary cable 3x50 mm <sup>2</sup>	82854007	Orange	32.6	1344.0	1680.0	326.0	

Dimensions and specifications may be changed without prior notice.