

# SINGLE CORE POWER CABLES - UNSHIELDED

SINGLE CORE POWER CABLES 1x50

## Contact

Market and Product Information  
automation.business@nexans.com

Nexans Ref.: 49349010

Single core power cables for extremely dynamic applications MOTIONLINE® PREMIUM

## DESCRIPTION

Single core power cables for extremely dynamic applications; PUR jacket, TPM insulation, resistant to oils and coolants, notch resistant, flame retardant, resistant to hydrolysis and microbes, PVC- and halogen-free.



## STANDARDS

**International**  
UL and CSA approval



Halogen free  
Yes



Operating temp.  
-30 - 80 °C



Storage temperature, range  
-50 - 80 °C



Flame retardant  
IEC 60332-1; FT1; UL 1581



Oil resistance  
DIN EN 50363-10-2 & DIN EN 60811-404

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## CHARACTERISTICS

### Construction characteristics

Construction type	1x50
Conductor material	Bending-resistant conductor with bare copper wires
Insulation	TPM with very low capacitance
Outer sheath	PUR
Sheath colour	Black
Halogen free	Yes

### Dimensional characteristics

Copper content	480 kg/km
Approximate weight	552 kg/km
Outer Diameter	14.7 mm

### Electrical characteristics

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

### Mechanical characteristics

Bending cycles	5 Mio.
Speed	300 m/min
Maximum acceleration	50 m/s <sup>2</sup>

### 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
Flame retardant	IEC 60332-1; FT1; UL 1581
Oil resistance	DIN EN 50363-10-2 & DIN EN 60811-404