

# SINGLE CORE POWER CABLES - UNSHIELDED

SINGLE CORE POWER CABLES 1x35

## Contact

Market and Product Information  
automation.business@nexans.com

Nexans Ref.: 49348910

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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## CHARACTERISTICS

### Construction characteristics

Construction type	1x35
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	336 kg/km
Approximate weight	395 kg/km
Outer Diameter	12.5 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

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