AWG strands PTFE-5Y insulation 160 V / 250 V

Silver-coated, highly heat-resistant PTFE-5Y-(Teflon®) insulated copper hook-up wires.

Based on VDE 0881 / DIN 57 881 / based on MIL-W-16 878

Technical data

Insulation wall thickness $\,$ approx. 0.15 mm / approx. 0.08 mm for AWG 36 $\,$

Test voltage VDE 0881 and MIL 1,500 V

Mechanical properties: Once-only bending radius 5 x outer diameter

Repeated bending radius 10 x outer diameter

Temperature range of the conductor -100°C to 200°C /

- 65°C to 200°C (at AWG 36)

of the insulation -100°C to 260°C

Density 2.15 to 2.20 g/cm³
Tensile strength 32 N/mm²
Fracture strain 200 to 500%

Specific volume resistivity 10¹⁸ Ω X cm

Dielectric constant 2.1 Loss factor 0.0002 Oxygen index > 95

Radiation resistance 105 rad

Properties of the Teflon®-PTFE insulation:

PTFE is not inflammable

PTFE is fully ozone-resistant

PTFE does not absorb water, 0%!

PTFE does not provide a creepage path (arc-resistant)

PTFE is not attacked by solvents (acids, alkalis)

PTFE is resistant to micro-cultures and does not permit the growth of fungus

PTFE has low water vapour permeability (0.31 mg/cm²/24 hrs.)

PTFE has an unlimited service life and is absolutely weatherproof

PTFE is resistant to soldering temperatures (no shrinking or melting)

PTFE saves space through thin walls at high operating voltages

Preferred applications for Teflon®-PTFE insulated cables and wires:

All areas with extremely stringent requirements on the thermal, electrical, chemical and mechanical properties, e.g. measurement and control system devices, the aerospace industry, for wiring of computers, for marine diesel engines, locomotives, alarm systems, measuring and test systems for the space industry.

No copper surcharge!

Current rating at 25°C in Amperes

1.5

2.5

3.7

4.7

6.2

8.5

3.7

4.7

8.5

Normal stock unit: Standard reels with 250 m/ or 1,000 m

including

250 m approx.

0.3 kg

0.4 kg

0.5 kg

1.2 kg

m m m

Outer

0.32

0.56

0.61

0.69

0.79

0.92

1.07

1.27

0.79

0.92

1.07

1.27

reel weight

0.1 kg 0.5 kg

0.2 kg 0.9 kg

0.8 kg 3.2 kg

1.8 kg 6.7 kg

0.6 kg 2.3 kg

0.8 kg 3.3 kg

1.3 kg 4.8 kg

1.9 kg 7.2 kg

1,000 m approx.

1.2 kg

1.6 ka

2.0 kg

4.6 ka

Lengths less than 250 m can be supplied as a free-wound ring.

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Net prices								
	Sample quantities under	in EUR per 100 m including copper and silver on collection (per colour)			Ordering information	Colours usually available ex-stock		
Cross-section and conductor structure	100 metres Price for 1 m	100 m upwards	500 m upwards	1,000 m upwards	Please also specify the colour	No. Colour		
Hook-up wires 7-wire, 160 / 250 V 0.01 mm ² with 7 x 0.05 0.03 mm ² with 7 x 0.08 0.06 mm ² with 7 x 0.10 0.09 mm ² with 7 x 0.13 0.14 mm ² with 7 x 0.16 0.22 mm ² with 7 x 0.20 0.34 mm ² with 7 x 0.25 0.56 mm ² with 7 x 0.32	2,35 ,85 ,90 ,90 ,95 1,00 1,45 1,70	156.00 56.00 58.00 60.00 62.00 66.00 96.00	117.00 42.00 43.50 45.00 46.50 49.50 72.00 84.00	99.00 35.00 37.00 38.00 39.50 42.00 61.00 71.00	LX 36 - 744 MX 32 - 740 MX 30 - 738 MX 28 - 736 MX 26 - 734 MX 24 - 732 MX 22 - 730 MX 20 - 728	11 black 22 white 33 grey 44 red 55 blue 60 orange		
Hook-up wires 19-core, 250 V 0.14 mm ² with 19 x 0.10 0.22 mm ² with 19 x 0.13 0.34 mm ² with 19 x 0.16 0.56 mm ² with 19 x 0.20	1,20 1,40 1,90 2,25	80.00 94.00 124.00 148.00	60.00 71.00 93.00 111.00	51.00 60.00 79.00 94.00	MX 26 - 1938 MX 24 - 1936 MX 22 - 1934 MX 20 - 1932	66 yellow 77 green 88 purple 99 brown		

*Description of the ordering designations

L	M	X	32	7 or 19	40
Operating voltage 160 V	Operating voltage 250 V	silver-coated PTFE insulation	AWG No. of the conductor	Number of the wires	AWG No. of single wire

You can contact us **at any time** during our business hours. Monday to Thursday from 7.30 a.m. to 4.00 p.m. and Friday from 7.30 a.m. to 2.00 p.m.

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