

Summary

Copper conductors in AWG sizes, 7-wire, UL 1061 and VDE 0881

No live core conductor

Small conductor and cable diameters

No twist markings

Will not break under vibration

Very flexible

Heat resistant

Cold resistant

To a limited extent oil resistant

To a limited extent petrol resistant

Flame-retardant in accordance with UL VW-1/CSA FT-1

Suitable for insulation displacement and crimp connectors

Technical data

Suitable for: connections in and between electrical systems, control systems, regulation systems, measurement systems, signalling systems and pulsed signal systems.

Connection system: low-cost connection using insulation displacement connectors.

Core structure: as per Style No.1061 and VDE 0881, copper strands 7 x 0.32 mm \varnothing tinned = 0.56 mm², insulated with semi-rigid PVC. Insulation wall thickness 0.25 mm, \varnothing of insulated conductor 1.5 mm.

Core labelling: international colour code (see page 228)

Twisted structure: starting with the black conductor, the conductors are twisted layer by layer from inside out to form the cable core. Ductile fractures are avoided, as the cables do not contain any live central conductors.

Outer jacket: special PVC. Colour is light grey as per RAL 7035. No twist markings. The PVC mixture is oil resistant to a limited extent, petrol resistant to a limited extent, flame-retardant, heat resistant and cold resistant. The wall thickness of the outer jacket increases gradually with the number of conductors from 0.8 mm (2-conductor) to 1.0 mm (60-conductor).

Temperature range:

Heat resistant	105°C as per DIN ISO 6722 (outer jacket)
	80°C (Cores)
Cold resistant	-10°C unrolling and installing
	-30°C storage and operation

Electrical properties:

<u>Operating voltage</u>	300 V
<u>Test voltage</u>	1,500 V
<u>Conductor resistance</u>	(20°C) 33 Ω /km
<u>Insulation resistance</u>	(20°C) \geq 20 M Ω X km
<u>Operating capacitance</u>	One conductor to the remaining conductors, approx. 200 pF/metre.

Mechanical properties:

Once-only bending radius	5 X outer diameter
Repeated bending radius	20 X outer diameter

Net price including copper

Ordering information

100 m weighs approx.	Overall \varnothing \pm 3%	Number of conductors	Cores	AWG No.	Jacket colour
2.7 kg	4.7 mm	2	2 X	AWG 20	grey
3.3 kg	4.9 mm	3	3 X	AWG 20	grey
4.1 kg	5.4 mm	4	4 X	AWG 20	grey
6.5 kg	6.3 mm	6	6 X	AWG 20	grey
10.2 kg	7.7 mm	10	10 X	AWG 20	grey
15.2 kg	8.9 mm	16	16 X	AWG 20	grey
32.0 kg	12.6 mm	36	36 X	AWG 20	grey
39.4 kg	14.2 mm	44	44 X	AWG 20	grey*
41.6 kg	14.4 mm	48	48 X	AWG 20	grey*
50.5 kg	15.9 mm	60	60 X	AWG 20	grey*

Normal stock unit: 100-m ring. Short sample (20 cm) free of charge.



* Items to be sold off