

**AWG 28**  
2 to 16 conductors

**Flexible black control signal cables, also shielded** UL Style  
AWG 28 = 0.09 mm<sup>2</sup> (7 x 0.127, tinned) 2464/1061

**Summary**

**Technical data**

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

Oil resistant to a limited extent

Petrol resistant to a limited extent

Flame-retardant as per UL VW-1/CSA FT-1

Resistant to weathering

Ultraviolet resistant

**Suitable for insulation displacement and crimp connectors**

**Certified:**  
UL - Style No. 2464  
UL - Style No. 1061

**Suitable for:** connections in and between electrical systems, control systems, regulation systems, measurement systems, signalling systems and pulsed signal systems, especially if the cable must be shielded against external interference, and if the products are intended for export to the USA.

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

**Core structure:** as per Style No.1061 and VDE 0881, copper strands 7 x 0.127 mm  $\varnothing$  tinned = 0.09 mm<sup>2</sup>, insulated with semi-rigid PVC. Insulation wall thickness 0.25 mm,  $\varnothing$  of insulated conductor 0.90 mm.

**Core labelling:** international colour code (see page 228)

**Twisted structure:** starting with the black conductor, the conductors are twisted clockwise 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.

**Wrapping and shield:** The twisted conductors are wrapped in overlapping transparent plastic foil and shielded with a dense braid of tinned copper wires, visual coverage  $\geq$  85%.

**Outer jacket:** matte black made of special PVC. Colour RAL 9005. No twist markings. The PVC mixture is oil resistant to a limited extent, petrol resistant to a limited extent, flame-retardant, weather resistant and ultraviolet resistant. The wall thickness of the outer jacket increases gradually with the number of conductors from 0.8 mm (2-conductor) to 0.9 mm (16-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) 215 $\Omega$ /km
<u>Insulation resistance</u>	(20°C) $\geq$ 20 M $\Omega$ X km
<u>Operating capacitance</u>	Core to conductor: approx. 65 pF/m Core to shield: approx. 110 pF/m.

**Mechanical properties:**

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

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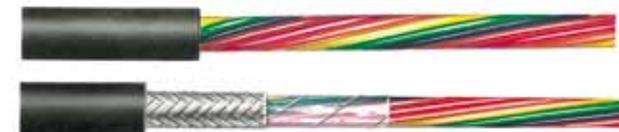
**Net price including copper**

**Ordering information**

100 m weighs approx.	Overall $\varnothing$ ± 0.15-0.20 mm	Number of conductors	Sample quantities under 100 metres	in EUR per 100 m on collection upwards			Cores	AWG No.	Certification	Jacket colour
				Price for 1 m	100 m	500 m				
				<b>Unshielded</b>						
1.3 kg	3.5 mm	2	0.70	48.00	36.00	24.00	2 X	AWG 28	UL bk	
1.5 kg	3.6 mm	3	0.80	56.00	42.00	28.00	3 X	AWG 28	UL bk	
1.7 kg	3.8 mm	4	1.00	68.00	51.00	34.00	4 X	AWG 28	UL bk	
2.3 kg	4.4 mm	6	1.40	96.00	72.00	48.00	6 X	AWG 28	UL bk	
3.3 kg	5.3 mm	10	1.90	128.00	96.00	64.00	10 X	AWG 28	UL bk	
3.6 kg	5.5 mm	12	2.30	152.00	114.00	76.00	12 X	AWG 28	UL bk	
				<b>Shielded</b>						
2.3 kg	4.0 mm	2	1.70	116.00	87.00	58.00	2 X	AWG 28 C	UL bk	
2.5 kg	4.1 mm	3	1.90	124.00	93.00	62.00	3 X	AWG 28 C	UL bk	
2.7 kg	4.3 mm	4	2.10	140.00	105.00	70.00	4 X	AWG 28 C	UL bk	
3.5 kg	4.9 mm	6	2.40	160.00	120.00	80.00	6 X	AWG 28 C	UL bk	
3.9 kg	5.6 mm	8	2.80	184.00	138.00	92.00	8 X	AWG 28 C	UL bk	
4.6 kg	5.8 mm	10	3.20	212.00	159.00	106.00	10 X	AWG 28 C	UL bk	
5.2 kg	6.0 mm	12	3.50	232.00	174.00	116.00	12 X	AWG 28 C	UL bk	

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

The rings are marked with the  label. (Cutlength are without Label)  
This label is the proof of certification in the USA.



6 x 0.09 mm<sup>2</sup> (7 x 0.127) AWG 28 shielded - UL 2464

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