

AWG To Millimetre Conductor Reference

Conductor sizes used across the LANP low-voltage cable range.

AWG to millimetre conversion

AWG	Diameter (mm)	Area (mm ²)	Commonly seen in
28	0.321	0.081	Stranded patch cord conductors
26	0.405	0.129	Slim patch cords
24	0.511	0.205	CAT5e bulk cable
23	0.573	0.258	CAT6 and CAT6A bulk cable
22	0.644	0.326	Alarm and security cable
20	0.812	0.518	Signal and speaker cable
18	1.024	0.823	Speaker cable, low-voltage power
16	1.291	1.31	Speaker cable, appliance leads
14	1.628	2.08	Building wire
12	2.053	3.31	Building wire

American Wire Gauge numbers run backwards: a larger AWG number is a thinner conductor. Where a conductor size is critical to a design, ask for the DC loop resistance rather than the gauge — resistance is measurable on arrival.

Notes on reading a cable specification

- A stated AWG applies to the conductor, not the finished cable diameter
- Stranded conductors of the same AWG have a larger overall diameter than solid
- Cross-sectional area is what determines resistance, not the gauge number
- Where a datasheet gives only a diameter, check whether it is the conductor or the insulated core