



CATEGORY 6 UNSHIELDED LAN CABLE

IEC 61156-5

4 orderable sizes

STANDARD IEC 61156-5	CONDUCTOR AWG23/1 solid bare copper, AWG24/1 solid bare copper	INSULATION / JACKET PVC CM indoor jacket / PVC CMR riser jacket / LSZH CPR Cca indoor jacket
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Construction

- 1 **Conductor (per core)** – Bare copper conductor · 1 × Ø0.5 mm · IEC 60228 cl.1
- 2 **Pair insulation** – Solid PE or foam PE pair insulation
- 3 **Filler** – Bedding / filler
- 4 **Sheath** – PVC CM indoor jacket

Size selection — all available cross-sections

Cable reference	Category	Pair layout	Conductor	Bandwidth	Transmission	Shielding	Jacket / rating	Power support	Max DC resistance at 20 °C	OD guide
Cat6 U/UTP LAN Cat6 4 x 2 pair AWG23/1 solid bare copper U/UTP PVC CM indoor jacket	Cat6	4 x 2 pair	AWG23/1 solid bare copper	250 MHz	1 Gbit/s to 100 m; 10 Gbit/s for short channel design	U/UTP	PVC CM indoor jacket	PoE / PoE+ / PoE++ with thermal bundle check	7.6 Ω/100 m max	6.3 mm
Cat6 U/UTP LAN Cat6 4 x 2 pair AWG23/1 solid bare copper U/UTP PVC CMR riser jacket	Cat6	4 x 2 pair	AWG23/1 solid bare copper	250 MHz	1 Gbit/s to 100 m; 10 Gbit/s for short channel design	U/UTP	PVC CMR riser jacket	PoE / PoE+ / PoE++ with thermal bundle check	7.6 Ω/100 m max	6.3 mm
Cat6 U/UTP LAN Cat6 4 x 2 pair AWG24/1 solid bare copper U/UTP PVC CM indoor jacket	Cat6	4 x 2 pair	AWG24/1 solid bare copper	250 MHz	1 Gbit/s to 100 m; 10 Gbit/s for short channel design	U/UTP	PVC CM indoor jacket	PoE / PoE+ / PoE++ with thermal bundle check	9.5 Ω/100 m max	6.3 mm
Cat6 U/UTP LAN Cat6 4 x 2 pair AWG24/1 solid bare copper U/UTP PVC CMR riser jacket	Cat6	4 x 2 pair	AWG24/1 solid bare copper	250 MHz	1 Gbit/s to 100 m; 10 Gbit/s for short channel design	U/UTP	PVC CMR riser jacket	PoE / PoE+ / PoE++ with thermal bundle check	9.5 Ω/100 m max	6.3 mm