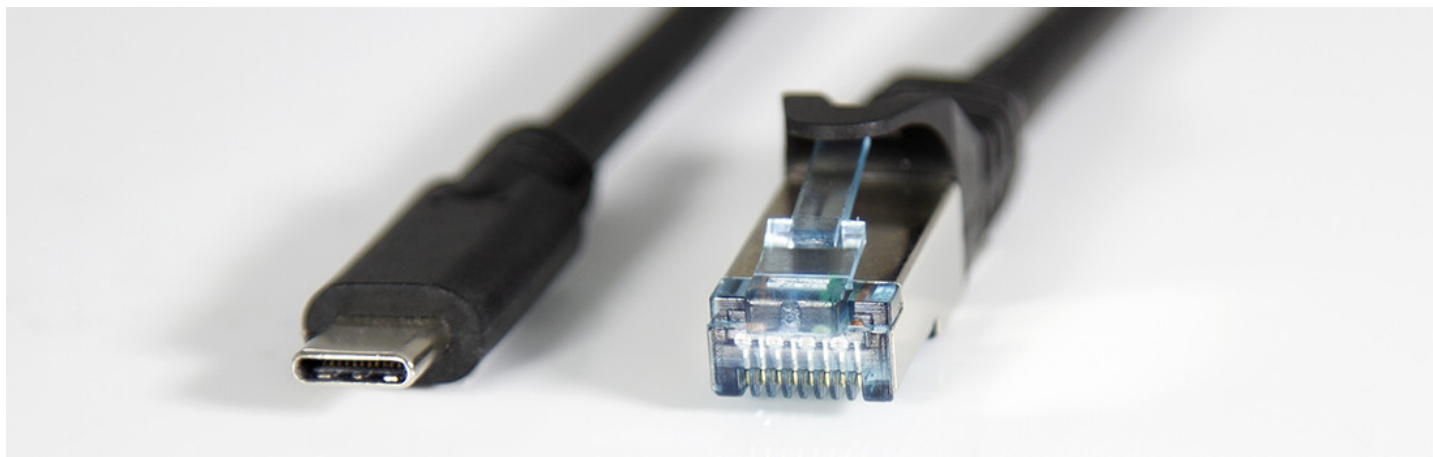




PALLUNA® 4700 Palladium Nickel Electrolyte

For hard and wear resistant coatings

PALLUNA® 4700 is a chloride-free ammoniacal high-speed electrolyte for the deposition of a semi-bright to bright palladium-nickel alloy in reel-to-reel lines (selective dipping, jet plating, brush plating) and tabplaters.

Depending on the operating conditions, the electrolyte deposits alloy layers with approx. 80% of Pd. The alloy composition is largely independent of the current density.

The hard and wear-resistant layers are ductile, with low internal stresses and exhibit good corrosion resistance.



Electrolyte characteristics

Electrolyte type	Chloride-free ammoniacal
Metal content	20 g/l Pd, 15 g/l Ni
pH value	7.7
Operating temperature	40 °C
Current density range	up to 50 A/dm ² in JetLab
Plating speed	up to 12 µm/min in JetLab
Anode material	Platinized titanium (e.g. PLATINODE®)

Coating characteristics

Coating	Palladium nickel
Purity	80 wt.% Pd, 20 wt.% Ni
Brightness	Semi-bright to bright
Hardness of deposit	approx. 550 HV kp/mm ² (5mN load)
Density of the coating	ca. 10,8 g/cm ³

Advantages

- Chloride-free
- pH and ammonia reduced
- High deposition rate
- Ductile coatings
- Constant alloy composition

Applications

- Industrial connectors (data and signal transmission)
- IT connectors (e.g. USB-C)

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