



PRINTED ELECTRONICS

FLEXIBLE PRINTED CIRCUITS

Alper s.r.l. applies Printed Electronics to manufacture Flexible Electrical Circuits through screen printing. In simple terms, a thin PET film is used as the base layer, and conductive silver paste is deposited in carefully defined tracks. This approach supports both functional conductivity and repeatable geometry, while keeping the construction slim and highly adaptable for integration into finished parts.

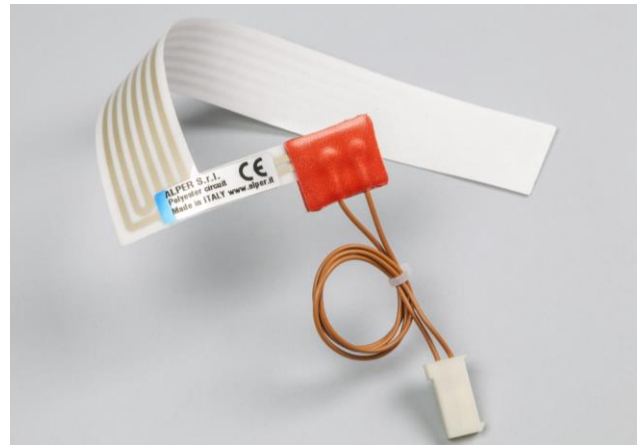
Thanks to their flexible format, Alper s.r.l. Flexible Printed Circuits can be shaped around curved housings, compact enclosures. In practice, this makes it easier to route signals across surfaces that would be difficult to serve with rigid boards or bulky wiring, while preserving clean connections between components.

One of the key benefits of Printed Electronics is the freedom it gives designers when developing connected products. In this context, Alper s.r.l.'s polyester-based printed circuitry can act as a practical support for smart connectivity, enabling data capture and signal transfer within the product and supporting the exchange of information between devices and control electronics where it is needed most.

CHARACTERISTICS

- Maximum dimensions: 1000x600mm (customized measures available on request)
- Application of adhesive surfaces using a wide range of specific double-sided adhesives for each use
- Wiring on customer specification.
- Customer specific design
- Substrate temperature limits:
 - Min: -40°C
 - Max: 90°C (continuously)
 - Max: 100°C (for short periods)

❖ Note: The component is provided as an unfinished part. Conformity and marking of the final product shall remain the responsibility of the manufacturer of the complete unit.



Certified organization TUV AUSTRIA ITALIA S.P.A.
• ISO 9001:2015 with certificate n°Q-2523-17
• ISO 45001:2018 with certificate n°S-2523-19
• ISO 14001:2015 with certificate n°A-2523-24



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