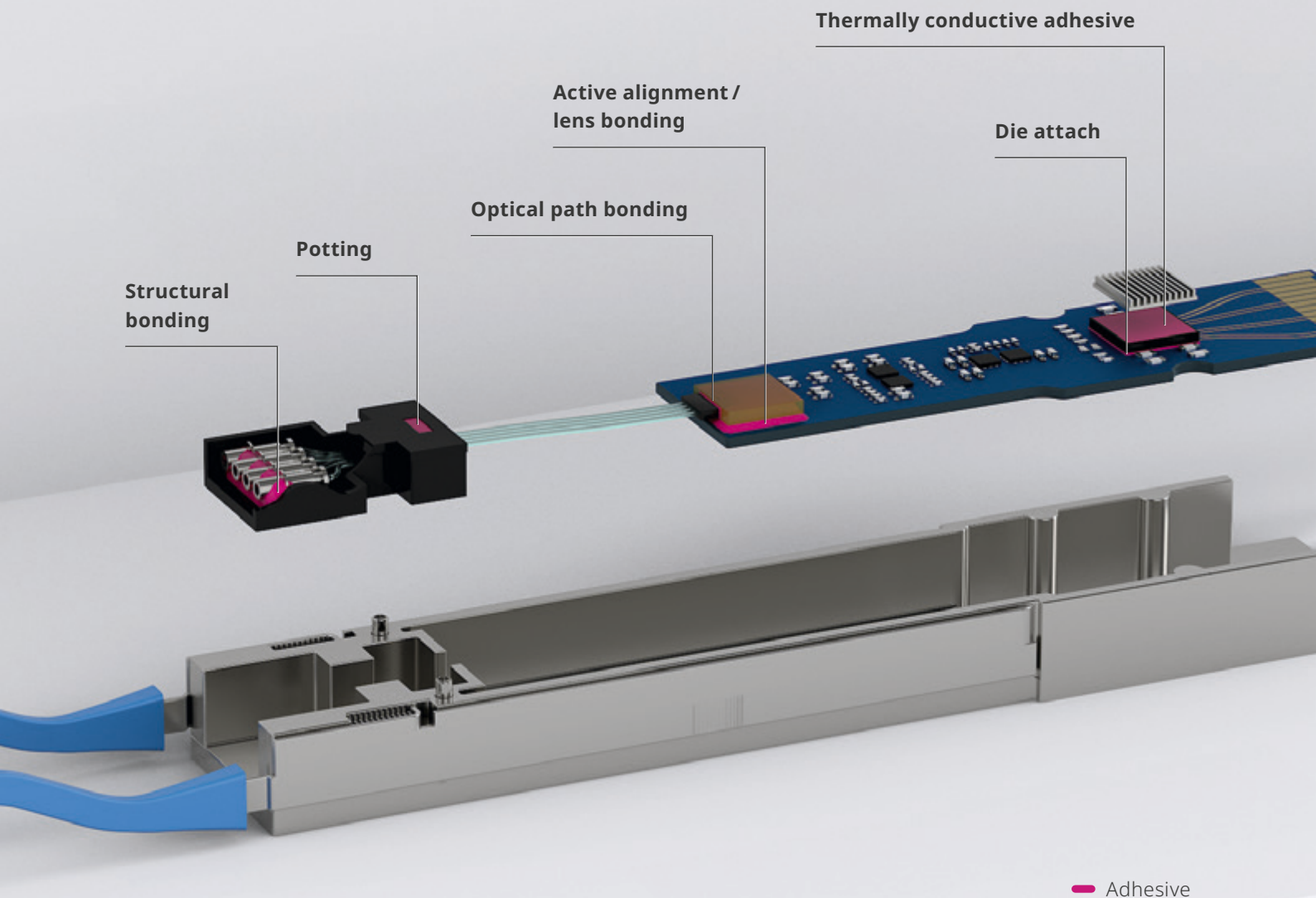


Connect it.

Adhesives for optical transceivers

For optical communication systems, DELO adhesives enable precise alignment and a quality bond with minimal shrinkage to maintain optical clarity. Their **thermal and mechanical stability** helps transceivers withstand demanding environments. Their **fast curing** enhances production efficiency while their **transparency** ensures optimal light transmission, crucial for these kinds of systems.



The following tables show which adhesive properties to look out for in which bonding task.

Product features

Active alignment / lens bonding	Optical path bonding	Die attach / capillary underfill
Bonding or active alignment (AA) of lens to substrate	Bonding of fibers to lenses inside the light path	Bonding a die to a PCB
<ul style="list-style-type: none"> › No lens shift in X- / Y-axis › Reliable bond strength › Low outgassing 	<ul style="list-style-type: none"> › UV-curable › High transmission for relevant wavelength › Reliable and adjusted optical properties (e. g. RI) 	<ul style="list-style-type: none"> › Process option: capillary underfill (suitable viscosity) › Reliable bond strength › Thermal conductivity (optional)
Thermally conductive adhesive	Potting	Structural bonding
Thermal management of the die	Potting for mechanical support	Structural bonding of various components
<ul style="list-style-type: none"> › High thermal conductivity › Reliable bond strength › CTE matching 	<ul style="list-style-type: none"> › Adjusted viscosity › Curing in shadowed areas › Low CTE 	<ul style="list-style-type: none"> › Reliable bond strength › Good adhesion to a variety of surfaces (plastics, glass, metals) › Light-fixation options available

Specific product information

can be found in our material selection guide which is available upon request.



Any questions?
photonics@delo.de

DELO Industrial Adhesives

**China | Czechia | France | Germany HQ | Italy | Japan
 Korea | Malaysia | Singapore | Thailand | USA**

The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behavior of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this. It is the customer's responsibility to test the suitability of a product for the intended purpose by considering all specific requirements and by applying standards the customer deems suitable (e. g. DIN 2304-1).

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