



 **INDUSTRIAL@AMPHENOL**

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# Solution Guide

Industrial & Commercial Transportation

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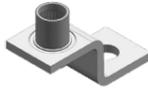
## + Low Voltage Solutions

Series	A-Series	SPE	Multway Systems	Isobus	eco   mate®
Product Image					
Coupling System	Bayonet, Latch	Latch	Lever, Screw	Bayonet	Bayonet, Screw
Contact Positions	1 - 128	2	24 - 128	9	1 - 48
Voltage	48 V DC	48 V DC	up to 250 V AC/DC	24 V DC	up to 630 V AC/DC
AWG/mm²	4 to 26 AWG	20 to 22 AWG	6 to 22 AWG	6 to 16 mm²	0,09 to 95 mm²
Contact Current Ratings	up to 100 A	up to 5 A	up to 100 A	up to 90 A	up to 300 A
IP Ratings	IP65/IP67/IP69K	IP67/IP69K	IP67/IP69K	IP67/IP69K	IP65/67/69K
Mating Cycles	100	100	100	100	500
Highlights	<ul style="list-style-type: none"> <li>• usable with 48 V applications &amp; electrical systems</li> <li>• validated according SAE J2030</li> </ul>	<ul style="list-style-type: none"> <li>• standardized interface for fast &amp; reliable data transmission</li> <li>• displays</li> <li>• camera systems</li> <li>• controllers</li> <li>• switch</li> <li>• gateway</li> </ul>	<ul style="list-style-type: none"> <li>• high pole count connector systems in a lot of different styles for various electrical systems</li> <li>• embedded systems</li> </ul>	<ul style="list-style-type: none"> <li>• connection between tractor and implement</li> <li>• standardized connection according ISO 11783-2</li> <li>• customized cable assemblies up on request</li> </ul>	<ul style="list-style-type: none"> <li>• circular connectors used in industrial applications</li> </ul>
Relevant for	    	    	    	   	    

## + High Voltage Solutions

PowerMate	PowerSok	CHD	HVSL Auxiliary	MSD	Charging Inlets
					
Lever	Lever	Latch	Lever	Lever	Acc. Market Standard
1 - 3	2	1 - 2	2 - 5	2	CCS2, AC, MCS, CCS1, NACS
1.500 V DC	1.000 V DC	1.500 V DC	1.000 V DC	500 V DC / 1.000 V DC	1.000 V DC
16 to 150 mm²	70 to 120 mm²	70 to 120 mm²	2.5 to 16 mm²	specific	150 mm²
up to 520 A	up to 500 A	up to 480 A	up to 95 A	fuse up to 690 A	up to 400 A
IP67/IP6K9K	IP67/IP69K	IP67/IP69K	IP67/IP6K9K	IP67/IP69K	IP44/IP67
50	50	50	50	50	10.000
<ul style="list-style-type: none"> <li>• validated according specific EMEA automotive standards</li> </ul>	<ul style="list-style-type: none"> <li>• validated according EMEA Automotive standards</li> </ul>	<ul style="list-style-type: none"> <li>• 90 degree header if application requires specific orientation</li> </ul>	<ul style="list-style-type: none"> <li>• most connector systems are available for the use with multicore cables</li> </ul>	<ul style="list-style-type: none"> <li>• up to 690 A</li> <li>• available in several sizes</li> </ul>	<ul style="list-style-type: none"> <li>• all standard interfaces available</li> <li>• customized cable assemblies up on request</li> </ul>
    	    	    	    	    	    

## + High Power Connectivity

Series	Busbar	energy   mate®	groundmate	Active Pinlok	Pressfit
Product Image					
Coupling System	Various	Blind mating	Push-Pull	Latch	Various
Contact Positions	1 - 2	2 - 100	1	1	1
Voltage	> 1.000 V DC/AC	1.000 V DC	60 V DC	60 V DC/AC, 1.000 V DC/AC	60 V DC/AC, 1.000 V DC/AC
AWG/mm <sup>2</sup>	specific	0.09 to 95 mm <sup>2</sup>	4 to 10 mm <sup>2</sup>	16 to 50 mm <sup>2</sup>	specific
Contact Current Ratings	up to +500 A	up to 325 A	up to 220 A	up to 220 A	up to 220 A
IP Ratings	IP00	IP20/IP69K	IP20	IP20	IP00
Mating Cycles	50	up To 100.000	1.000	1.000	1.000
Highlights	<ul style="list-style-type: none"> <li>• specific busbar designs</li> <li>• overmoulded busbars</li> <li>• laminated busbars</li> <li>• ultrasonic welding available</li> </ul>	<ul style="list-style-type: none"> <li>• rack- &amp; panel solutions</li> <li>• tolerance +/- 10 mm</li> </ul>	<ul style="list-style-type: none"> <li>• fast connection for grounding</li> </ul>	<ul style="list-style-type: none"> <li>• fast connection for grounding</li> </ul>	<ul style="list-style-type: none"> <li>• easy to install power to board solutions for high power applications</li> </ul>
Relevant for	    	  	    	    	      



# Applications & Markets

Our interconnections are especially designed for harsh environments with hard requirements in terms of high power, environmental influences, vibrations and safety.

We focus on all voltage classes and ranges from 12 up to 1500 V DC.

We have interconnection systems for power, signal and data transmission.

With our products we meet the validation standards typically used and set within EMEA Automotive segment, focusing on LV and ISO16750.

Additionally we can provide the full cable assembly with our connectors and additional requirements.

With that we can enable our customers to have the best connectivity solutions and meet all major challenging market trends in terms of green CO2-emission fleet targets, autonomous and connected driving and safety requirements.

## Interested?

Use our global resources. Independently from where you are in the world, we offer you our global expertise and great variety of products and technologies.

Please note that we can offer all cable connectors as cable assemblies according your specific requirements.

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