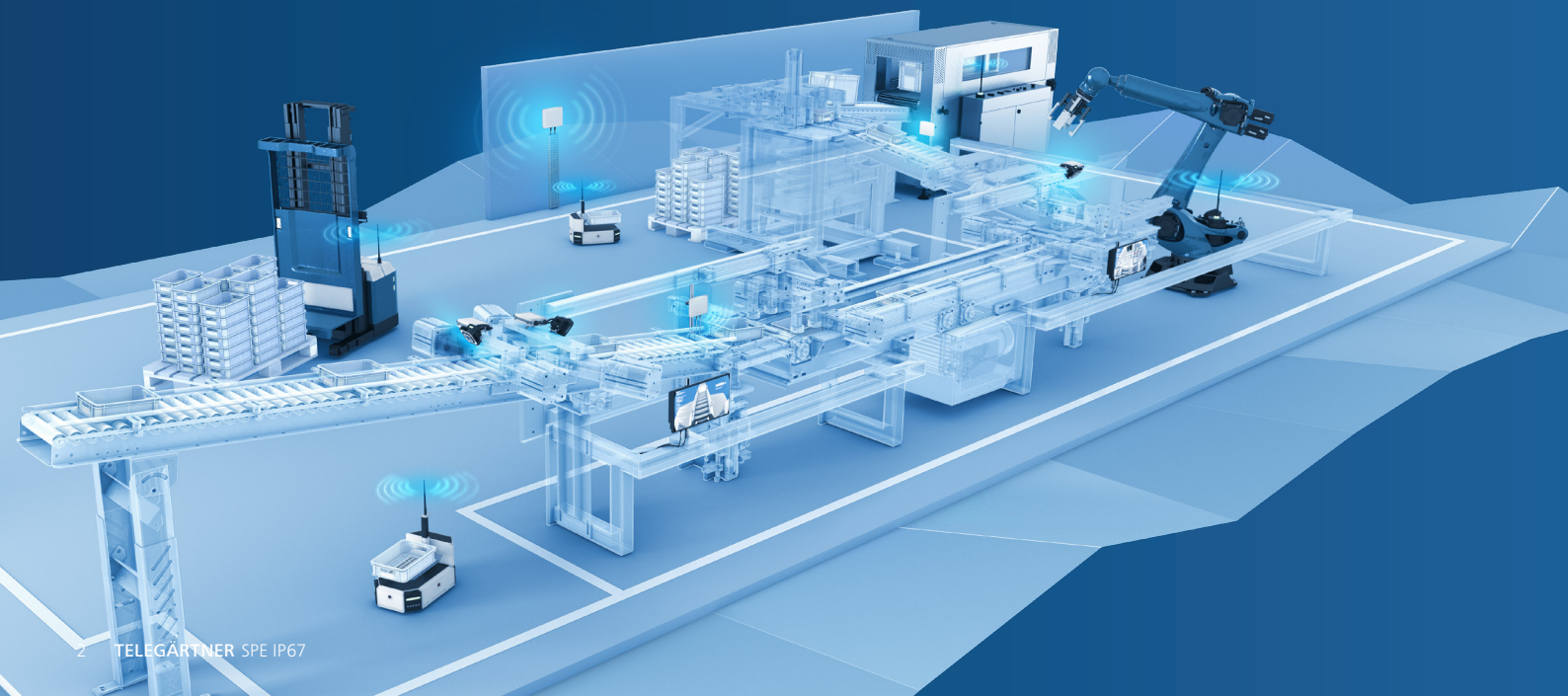


THE QUANTUM LEAP IN STANDARDISATION.

Future-oriented communication in the Industrial Internet of Things - simple and consistent from the sensor to the cloud.



DESIGNED TO MEET THE HIGHEST REQUIREMENTS.



The ongoing digitalisation in industry is pushing existing Ethernet systems to their limits. New Ethernet cabling solutions are needed so that machines and systems can communicate with each other independently, fail-safe and in real time. Time for the next development step.

Thanks to the revolutionary SPE technology, communication via Ethernet can be space-saving, cost-efficient and continuous from the sensor to the cloud for the first time. Cross-application with a range of up to 1,000m and transmission speeds of up to 1 Gbit/s.

Even more: with the help of Power over Data Line (PoDL), data and power are transmitted in parallel via just one pair. Compared to conventional four-pair cabling solutions, this means: less installation effort, less space requirement and less weight.

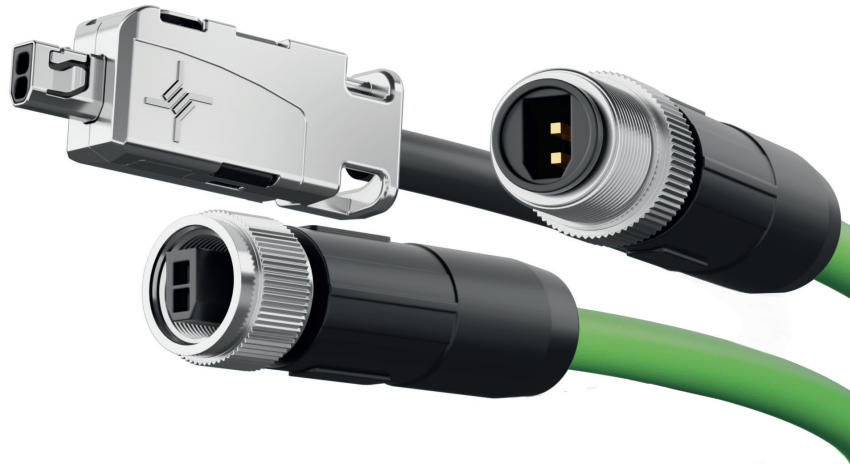
SMALL DESIGN. BIG ADVANTAGES.

Miniaturisation

The SPE connector acc. to IEC 63171-2 is currently the most compact mating face on the market and saves up to 50% space compared to RJ45 interfaces. Due to a vertical arrangement, the packing density can be doubled. In addition, the mating face can be optimally integrated into a standard M8 housing due to its compact design and it is the perfect solution for industrial applications, especially sensor technology.

Simplicity

Our SPE connectors can be used across applications. The IP20 and IP67 mating faces can be combined as required and always fit together perfectly. The reduction to just one wire pair and the associated simple and standardised design significantly reduce size, weight and installation effort.



Future-proof

The new technology Single Pair Ethernet enables consistent Ethernet-based communication across all levels - from the sensor to the cloud. This allows a consistent communication without extensive programming or the use of gateways. The result: considerable time and cost savings in the entire cabling system.

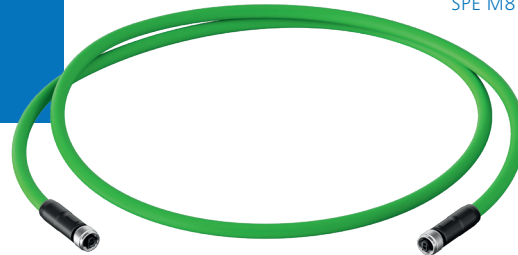
Performance

SPE connectors are especially robust and vibration resistant. They are resistant to electromagnetic influences and have been specially designed to meet the high demands of industry. The transmission rates are sufficient even for demanding sensor components and reach up to 10 Mbit/s at a cable length of 1,000m, 1 Gbit/s at a cable length of 40m.

CONVINCING ALL ROUND.

Thanks to its compact design, the mating face acc. to IEC 63171-5 allows full integration into standard M8 components - and is thus ideally suited for the harsh environmental conditions in industrial cabling.

- Developed for M8 connector systems in sensor applications
- Data and signals are transferred through just one pair of wires
- Consistent communication from the sensor to the cloud
- Dust-resistant and waterproof (IP67)
- Shock and vibration-resistant acc. to IEC 60068
- For Ethernet applications with transmission rates of up to 1 Gbit/s

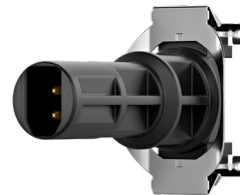


SPE M8 IP67 Patch Cord

Technical characteristics

Mating face	63171-5
Number of poles	2
Connections	THR/SMD/Crimp connection
Cable sheath	PUR
Cable construction	1x2xAWG22/7
Category	Cat. B (ISO/IEC 63171)
Protection class	IP67
Temperature range	-40°C to +85°C
Degree of pollution	2
PoDL	Acc. to IEEE 802.3bu






SPE M8 IP67 Bulkhead Plug










SPE M8 IP67 Housing



Product overview & order information

SPE IP20 Bulkhead Plug	Description	Order no.
	straight, one-piece, solder connection THR	100033784
	90°, one-piece, solder connection THR	100033779
	90°, one-piece, solder connection THR with LED	100033781
SPE IP20 Cable Socket		
	straight, box set, IDC connection, field-assembly, tool-free assembly	100033741
IP 20 SPE Patch Cord female-female, overmoulded, crimp		
	Length 1m	100033797
	Length 2m	100033850
	Length 3m	100033832
	Length 5m	100033849

SPE M8 IP67 Bulkhead Plug	Description	Order No.
	straight, one-piece, solder connection THR	100033785
	straight, one-piece, solder connectio SMD	100033780
	90°, one-piece, solder connection THR	100033786
SPE M8 IP67 Connecting Cable female-female, overmoulded, crimp		
	Length 1m	100033811
	Length 2m	100033806
	Length 3m	100033836
	Length 5m	100033835
SPE M8 IP67 Connecting Cable female-male, overmoulded, crimp		
	Length 1m	100033834
	Length 2m	100033837
	Length 3m	100033838
	Length 5m	100033853

SPE M8 IP67 Housing	Description	Order no.
	front wall mounting	100033814
	rear wall mounting	100033828

You can find more information on our homepage:
<https://www.telegaertner.com/en/single-pair-ethernet>



Please Scan!

