



HIGH-SPEED DATA TRANSMISSION CONNECTIVITY SOLUTIONS

**RUGGED
SEALED
ULTRA-MINIATURE**

Audio/video protocol up to 18 Gbit/s


USB 3.2 Gen 2 up to 10 Gbit/s


Ethernet up to 10 Gbit/s




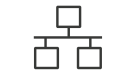
Fischer Connectors' solutions are compatible with most popular data protocols, ensuring high-quality data transmission for digital signals.

DATA PROTOCOLS

 The Universal Serial Bus industry standard USB 2.0 establishes specifications for cables and connectors and protocols for connection, communication and power supply between computers, peripheral devices and other computers.

 Often called SuperSpeed USB, the Universal Serial Bus industry standard USB 3.2¹ Gen 2 allows for higher transfer speeds, greater bandwidth and improved power management than USB 2.0.






 The standard protocol for the simultaneous transmission of audio and video allows to transmit uncompressed video data and compressed or uncompressed digital audio from a source device to a compatible output device.

 Ethernet is the industrial standard for transferring data between multiple devices on a network. Can also be used for distributing power to devices (PoE). Used for computers, routers/switches, networked peripheral devices, etc.







N.B. To take advantage of the increased bandwidth provided by data protocols, all components must be compatible with the respective data protocol. Bandwidth performance is determined by the lowest-rated component, i.e. connecting a USB 3.2 Gen 2 cable to a USB 2.0 port will only provide USB 2.0 speeds.

CONFIGURATIONS







Images for illustration purpose only
All data rates are maximal theoretical values. Application dependent.

				
USB 2.0	USB 3.2*	Ethernet	Single Pair Ethernet	Audio/video







FISCHER MINIMAX™ SERIES

 <ul style="list-style-type: none">High density, small, lightIP68 sealing5,000 mating cycles	480 Mbit/s  4 pins Ø 9.9 mm**	10 Gbit/s  9 pins Ø 12.9 mm**	10 Gbit/s  8 pins Ø 12.9 mm**	1 Gbit/s  4 pins Ø 9.9 mm**	18 Gbit/s  19 pins Ø 12.9 mm**
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FISCHER ULTIMATE™ SERIES

 <ul style="list-style-type: none">Rugged, light, hermeticIP68/IP69 sealing10,000 mating cycles	480 Mbit/s  4 pins Ø 12 mm**	10 Gbit/s  9 pins Ø 18.5 mm**	1 Gbit/s  9 pins Ø 15 mm**	1 Gbit/s  2 pins Ø 12 mm**	10.2 Gbit/s  19 pins Ø 18.5 mm**
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FISCHER CORE SERIES

 <ul style="list-style-type: none">RuggedIP68/IP69 sealing10,000 mating cycles	480 Mbit/s  4 pins Ø 15 mm**	10 Gbit/s  9 pins Ø 15.5 mm**	5 Gbit/s  12 pins Ø 13 mm**	1 Gbit/s  2 pins Ø 9 mm**	18 Gbit/s  20 pins Ø 18 mm**
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* USB3.2 Gen1 and Gen 2 Connectors and Cable assemblies are validated following parameters from the Universal Serial Bus 3.1 Legacy Connectors and Cable Assemblies Compliance Document Revision 1.1 (impedance, attenuation, Crosstalks, conversion modes). Speed rate mentioned is the maximum theoretical achievable speed rate with the according protocol. For further request on the parameters tested and the test reports, please contact Technical Support.

** max. plug diameter

TRY OUR DATA PROTOCOL SOLUTIONS

Our expert team has selected and created a range of pre-cabled solutions designed to help you qualify the right product according to your data transmission requirements.

Scan,
discover,
choose.



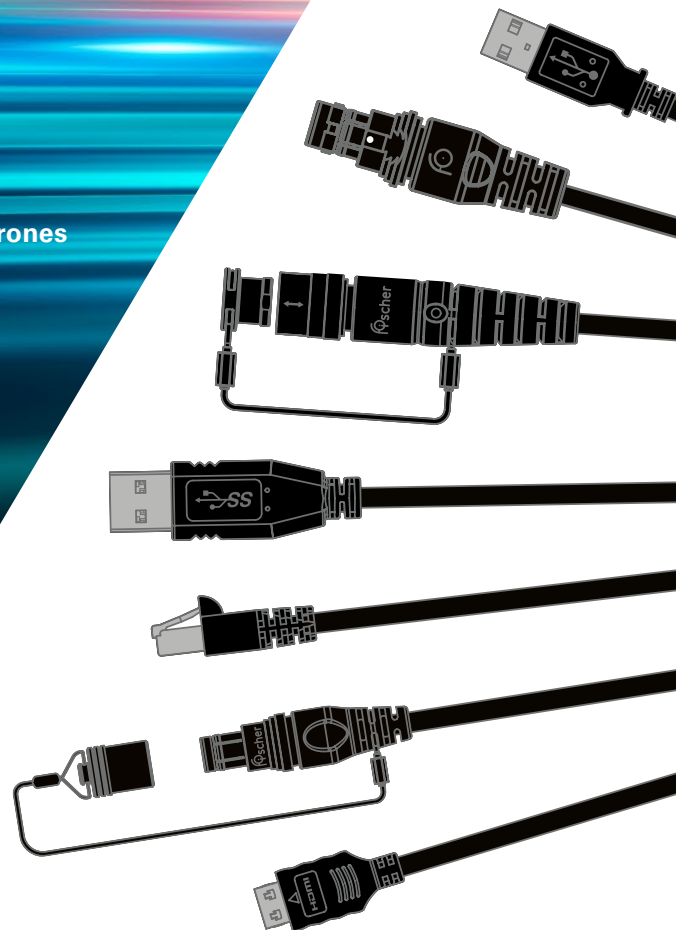
Explore high-performance connectivity solutions
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SELECTED DATA PROTOCOL SOLUTIONS

- Ready-to-order pre-cabled references
- Designed for demanding environments – defense, medical, drones
- Suitable for applications up to 18 Gbit/s




 FISCHER **MINIMAX™** SERIES


Termination 1	Termination 2	Designation	Part number
Cabled receptacle MR50	USB 2.0 Type A plug	CA D 4xLV MR50 0202/USB2 MA PVC BK 0.3m	141379



Termination 1	Termination 2	Designation	Part number
Cabled plug MP11	USB 2.0 Type A plug	CA D 4xLV MP11 0202/USB2 MA PVC BK 2.0m	134250

 FISCHER **ULTIMATE™** SERIES


Termination 1	Termination 2	Designation	Part number
Cabled receptacle UR50	USB 2.0 Type A plug	CA D 4xLV UR50 F004/USB2 MA PVC BK 0.3m	141378



Termination 1	Termination 2	Designation	Part number
Cabled plug UP01	USB 2.0 Type A plug	CA D 4xLV UP01 M004/USB2 MA PVC BK 2.0m	134258


 FISCHER **MINIMAX™** SERIES


Termination 1	Termination 2	Designation	Part number
Cabled receptacle MR50	USB 3.2 Type A plug	CA D 9xLV MR50 0009/USB3 MA PVC BK 0.3m	141380



Termination 1	Termination 2	Designation	Part number
Cabled plug MP11	USB 3.2 Type A plug	CA D 9xLV MP11 2007/USB3 MA PVC BK 1.9m	134256

 FISCHER **ULTIMATE™** SERIES


Termination 1	Termination 2	Designation	Part number
Cabled receptacle UR50	USB 3.2 Type A plug	CA D 9xLV UR50Z11M207/USB3A PVC BK 0.3m	143449



Termination 1	Termination 2	Designation	Part number
Cabled plug UP01	USB 3.2 Type A plug	CA D 9xLV UP01L11M207/USB3A PVC BK 1.0m	143447

1) USB3.2 Gen1 and Gen 2 Connectors and Cable assemblies are validated following parameters from the Universal Serial Bus 3.1 Legacy Connectors and Cable Assemblies Compliance Document Revision 1.1 (impedance, attenuation, Crosstalks, conversion modes). Speed rate mentioned is the maximum theoretical achievable speed rate with the according protocol. For further request on the parameters tested and the test reports, please contact Technical Support.



FISCHER **CORE** SERIES



Termination 1	Termination 2	Designation	Part number
Cabled receptacle KSE 1031	USB 3.2 Type A plug	CA D 9xLV KSE1031A009/USB3A PVC BK 0.3m	143436



Termination 1	Termination 2	Designation	Part number
Cabled plug SS 1031	USB 3.2 Type A plug	CA D 9xLV SS1031A009/USB3A PVC BK 1.0m	143434

1) USB3.2 Gen1 and Gen 2 Connectors and Cable assemblies are validated following parameters from the Universal Serial Bus 3.1 Legacy Connectors and Cable Assemblies Compliance Document Revision 1.1 (impedance, attenuation, Crosstalks, conversion modes). Speed rate mentioned is the maximum theoretical achievable speed rate with the according protocol. For further request on the parameters tested and the test reports, please contact Technical Support.



FISCHER MINIMAX™ SERIES



Termination 1	Termination 2	Designation	Part number
Cabled receptacle MR50	RJ45 plug	CA D 8xLV MR50 08 0008/RJ45 LSOH BK 0.3m	141377



Termination 1	Termination 2	Designation	Part number
Cabled plug MP11	RJ45 plug	CA D 8xLV MP11 0008/RJ45 LSOH BK 2.0m	134252



FISCHER ULTIMATE™ SERIES



Termination 1	Termination 2	Designation	Part number
Cabled receptacle UR50	RJ45 plug	CA D 8xLV UR50 08 F009/RJ45 LSOH BK 0.3m	141376



Termination 1	Termination 2	Designation	Part number
Cabled plug UP01	RJ45 plug	CA D 8xLV UP01 08 M009/RJ45 LSOH BK 2.0m	134260



FISCHER **ULTIMATE™** SERIES



Termination 1	Termination 2	Designation	Part number
Cabled receptacle UR50	Open end	CA S 2xLV UR50Z07F0S2/OE PUR BK 2.0m	142308



Termination 1	Termination 2	Designation	Part number
Cabled plug UP01	Open end	CA S 2xLV UPL07M0S2/OE PUR BK 2.0m	140924



FISCHER **CORE** SERIES



Termination 1	Termination 2	Designation	Part number
Cabled receptacle KSE 102	Open end	CA S 2xLV KSE102A066/OE PUR BK 2.0m	141390



Termination 1	Termination 2	Designation	Part number
Cabled plug SS 102	Open end	CA S 2xLV SS102A066/OE PUR BK 2.0m	140923

 FISCHER **MINIMAX™** SERIES


Termination 1	Termination 2	Designation	Part number
Cabled receptacle MR50	HDMI 2.0 Type A	CA D 19xLV MR50LH019/HDMI-P PVC BK 1.5m	142712



Termination 1	Termination 2	Designation	Part number
Cabled plug MP08	HDMI 2.0 Type A	CA D 19xLV MP08LH019/HDMI-P PVC BK 1.5m	142710

 FISCHER **ULTIMATE™** SERIES


Termination 1	Termination 2	Designation	Part number
Cabled receptacle UR50	HDMI 1.4 Type A	CA D 19xLV UR50 F019/HDMI PVC BK 0.3m	141381



Termination 1	Termination 2	Designation	Part number
Cabled plug UP01	HDMI 1.4 Type A	CA D 19xLV UP01 M0019/HDMI PVC BK 2.0m	134262



FISCHER **CORE** SERIES



Termination 1	Termination 2	Designation	Part number
Cabled receptacle KSE 104	HDMI 2.0 Type	CA D 19xLV KSE104A135/HDMI-P PVC BK 1.5m	142407



Termination 1	Termination 2	Designation	Part number
Cabled plug SS 104	HDMI 2.0 Type	CA D 19xLV SS104A135/HDMI-P PVC BK 1.5m	142406



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