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Cable Connection

for Torque Sensors

In order to integrate sensor technology into a given application, it is advisable to clarify these points in advance; this will provide the basis for selecting the relevant components to generate the measuring chain:

- Type of signal: voltage, frequency, digital (fieldbus/Ethernet)
- Number of pins of the selected output
- Pin allocation for sensor and evaluation unit (see data sheet)

Description
When installing the cables, make sure that the maximum permitted cable length is not exceeded. It is advisable to use original Kistler cables only.

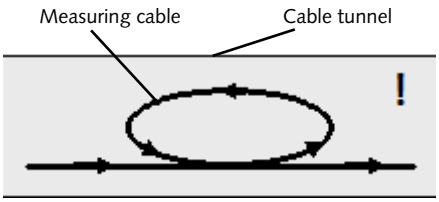
Most torque sensors based on strain gage technology already have an internal amplifier. The sensors can be connected with the appropriate evaluation unit, or directly with the PLC in some cases.

For the analysis of dedicated XY processes (such as torque-rotation angle monitoring), the maXYmos family is highly suitable thanks to its user-friendly operation and wide variety of interfaces (Y-channel: piezo, strain gage, ± 10 V; X-channel: potentiometer, ± 10 V, incremental).

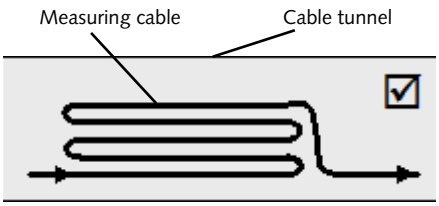
The cable length are available in 2.5 meter / 5 meter or customized length.

Laying of the Measuring Cable:

- Do not lay parallel to power lines or control lines
- Not in the vicinity of heavy electro-magnetic fields, e.g. transformers, welding devices, contactors, motors etc
- If this cannot be avoided, lay the measuring cable in a grounded armored conduit
- Excess lengths should be prevented. If it isn't possible to avoid, then do not lay excess lengths in closed loops



Risk to couple in EMC noises into the measuring sensor cable



To reduce the inductive areas it's recommended to laying the measuring sensor cable in bifilar form

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Cable and Connection Torque Sensor Type 4501A...

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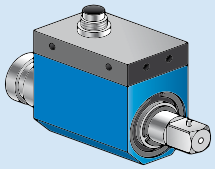
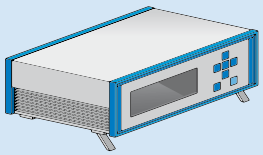


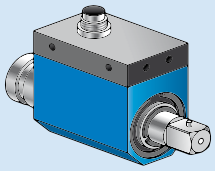
Type 4501A...



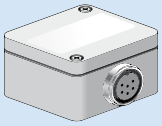
Type 4700B...

6 pin to CoMo Torque	Length (m)	Material No.
4501A...	2,5	18008959
4501A...	variable	18008960

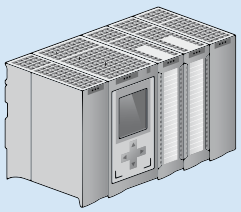
12 pin to CoMo Torque	Length (m)	Material No.
4501A...	2,5	18008961
4501A...	variable	18008962



Type 4501A...



Type 4701A...



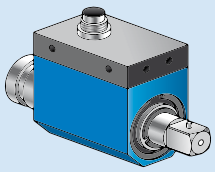
PLC

6 pin to free end	Length (m)	Material No.
4501A...	5	18008939
4501A...	variable	18008940

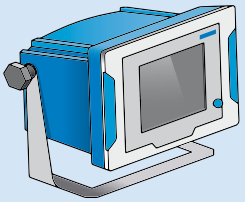
6 pin Connector/Female bs.	Length (m)	Material No.
4501A...	5	18008930
4501A...	variable	18008931

12 pin to free end	Length (m)	Material No.
4501A...	5	18008958
4501A...	variable	not available

12 pin Connector/Female bs.	Length (m)	Material No.
4501A...	5	18008955
4501A...	variable	not available



Type 4501A...



Type 5867A...

6 pin to maXYmos BL	Length (m)	Material No.
4501A...	5	18009163
4501A...	variable	18009164

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Cable and Connection Torque Sensor Type 4501A...

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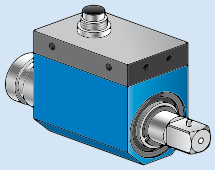
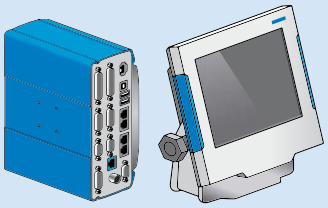


Type 4501A...



Type 5877A...

6 pin to maXYmos TL	Length (m)	Material No.
4501A...	5	18009163
4501A...	variable	18009164

12 pin to maXYmos TL	Length (m)	Material No.
4501A...	0,5	18029711
4501A...	variable	not available

General Technical Data	
Protection Class IEC/EN 60529	IP40
Connector	6 pin or 12 pin Binder connector
Type of cable	LiYCY transparent shielded
Temperature range	–10 °C ... +70 °C
Bending radius	approx. 10x outside diameter
Data sheet see www.kistler.com	**4501A (000-596)**

Accessories

Coupling socket 6 pin	**Type**	**18008377**
Coupling socket 12 pin	**Type**	**18008371**
Amplifier for strain gage sensors	**Type**	**4701A...**

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Cable and Connection Torque Sensor Type 4502A...

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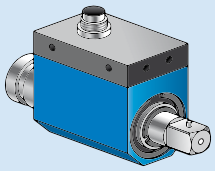
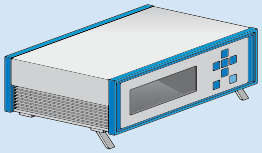
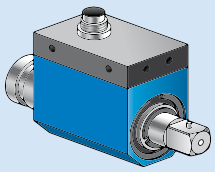


Type 4502A...

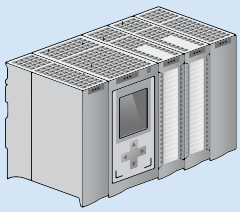


Type 4700B...

12 pin to CoMo Torque	Length (m)	Material No.
4502A...	2,5	18008963
4502A...	variable	18008964



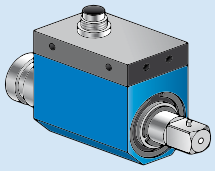
Type 4502A...



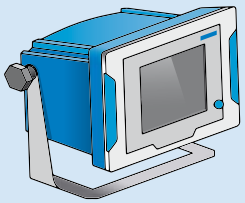
SPS

12 pin to free End	Length (m)	Material No.
4502A...	5	18008943
4502A...	variable	18008944

12 pin Connector/Female bs.	Length (m)	Material No.
4502A...	5	18008935
4502A...	variable	18008936



Type 4502A...



Type 5867A...

12 pin to maXYmos BL	Length (m)	Material No.
4502A...	5	18019422
4502A...	variable	18029045

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Cable and Connection Torque Sensor Type 4502A...

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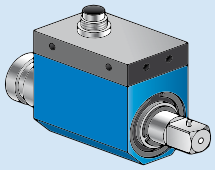
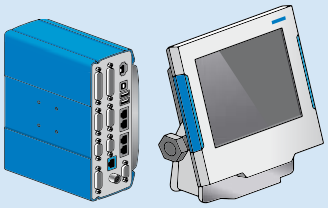


Type 4502A...



Type 5877A...

12 pin to maXYmos TL	Length (m)	Material No.
4502A...	5	18027071
4502A...	variable	18027073

General Technical Data	
Protection Class IEC/EN 60529	IP40
Connector	12 pin Binder connector
Type of cable	LiYCY transparent shielded
Temperature range	–10 °C ... +70 °C
Bending radius	approx. 10x outside diameter
Data sheet see www.kistler.com	**4502A (000-597)**

Accessories

Coupling socket 12 pin	**Type**	**18008371**
Couplings	**Type**	**2301A... to 2303A...**

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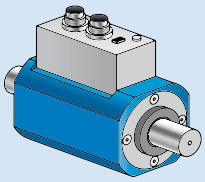
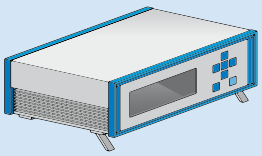
Cable and Connection Torque Sensor Type 4503...

Measure | Connect | Amplify | Monitor & Control



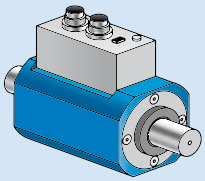
Type 4503...



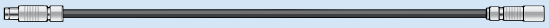
Type 4700B...

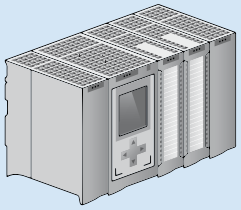
12 pin to CoMo Torque (Voltage)	Length (m)	Material No.
4503...	2,5	18008967
4503...	variable	18008968

12 pin to CoMo Torque (Frequency)	Length (m)	Material No.
4503...	2,5	18008969
4503...	variable	18008970



Type 4503...





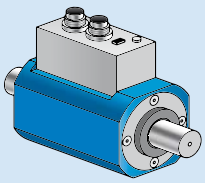
PLC

7 pin to free end	Length (m)	Material No.
4503...	5	18008996
4503...	variable	18008997

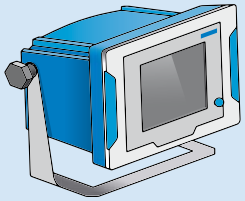
7 pin to SUB-D (RS-232C)	Length (m)	Material No.
4503...	5	18008994
4503...	variable	18008995

12 pin to free end	Length (m)	Material No.
4503...	5	18008943
4503...	variable	18008944

12 pin Female to 12 pin Male	Length (m)	Material No.
4503...	5	18008935
4503...	variable	18008936



Type 4503...



Type 5867A...

12 pin to maXYmos BL	Length (m)	Material No.
4503...	5	18029193
4503...	variable	18029194

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Cable and Connection Torque Sensor Type 4503...

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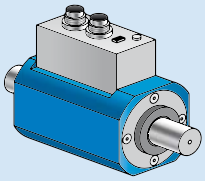
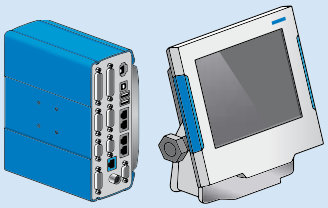


Type 4503...

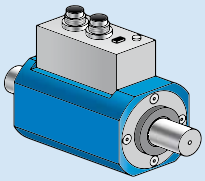


Type 5877A...

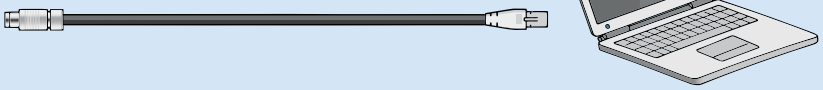
7 pin to maXYmos TL[1]	Length (m)	Material No.
4503...	5	18031756
4503...	variable	not available

12 pin to maXYmos TL	Length (m)	Material No.
4503...	5	18026961
4503...	variable	18027032

[1]Measuring range changeover



Type 4503B...



Laptop

USB cable	Length (m)	Material No.
4503B...	1,8	55115378

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General Technical Data	
Protection Class IEC/EN 60529	IP40
Connector	7- and 12 pin install plug
Type of cable	LiYCY transparent shielded
Temperature range	–10 °C ... +70 °C
Bending radius	approx. 10x outside diameter
Data sheet see www.kistler.com	**4503A (000-595), 4503B (000-767)**

Accessories		
Coupling socket 7 pin	**Type**	**18008363**
Coupling socket 12 pin	**Type**	**18008371**
SensorTool	**Type**	**4706A**
Couplings	**Type**	**2301A... to 2303A...**

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Cable and Connection Torque Sensor Type 4504B...

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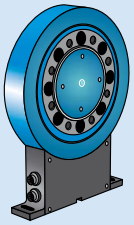
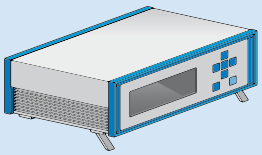


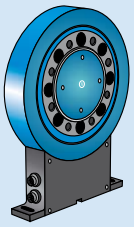
Type 4504B...



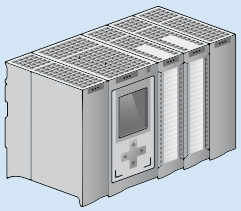
Type 4700B...

Connector A 12 pin to CoMo Torque (Voltage)	Length (m)	Material No.
4504B...	2,5	18008967
4504B...	variable	18008968

Connector A 12 pin to CoMo Torque (Frequency)	Length (m)	Material No.
4504B...	2,5	18008969
4504B...	variable	18008970



Type 4504B...



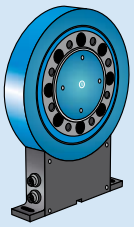
SPS

Connector B and C 7 pin to free end	Length (m)	Material No.
4504B...	5	18008996
4504B...	variable	18008997

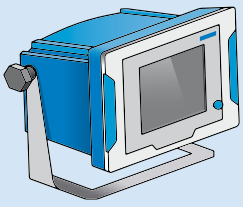
Connector D 8 pin to free end	Length (m)	Material No.
4504B...	5	55109745
4504B...	variable	not available

Connector A 12 pin to free end	Length (m)	Material No.
4504B...	5	18008943
4504B...	variable	18008944

Connector A 12 pin Female to 12 pin Male	Length (m)	Material No.
4504B...	5	18008935
4504B...	variable	18008936



Type 4504B...



Type 5867A...

Connector A 12 pin to maXYmos BL	Length (m)	Material No.
4504B...	5	18029193
4504B...	variable	18029194

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Cable and Connection Torque Sensor Type 4504B...

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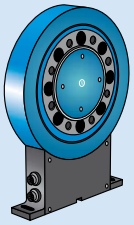
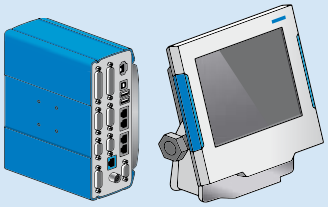


Type 4504B...



Type 5877A...

Connector A 12 pin to maXYmos TL	Length (m)	Material No.
4504B...	5	18026961
4504B...	variable	18027032

General Technical Data	
Protection Class IEC/EN 60529	IP40
Connector	7-, 8- and 12 pin install plug
Type of cable	LiYCY transparent shielded
Temperature range	–10 °C ... +70 °C
Bending radius	approx. 10x outside diameter
Data sheet see www.kistler.com	**4504B (000-805)**

Accessories			
Coupling socket 7 pin		**Type**	**18008363** **Connector C**
Coupling socket 8 pin		**Type**	**KSM013136** **Connector D**
SensorTool		**Type**	**4706A**
Couplings		**Type**	**2300A...**

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Cable and Connection Torque Sensor Type 4507A... and Type 4509A...

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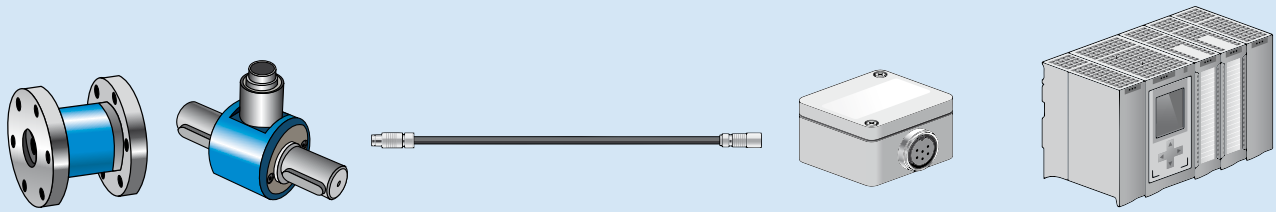
Type 4507A... and Type 4509A... Type 4700B...

6 pin to CoMo Torque	Length (m)	Material No.
4507A... and 4509A...	2,5	18008959
4507A... and 4509A...	variable	18008960



Type 4507A... and Type 4509A... Type 4701A... PLC

6 pin on free end	Length (m)	Material No.
4507A... and 4509A...	5	18008939
4507A... and 4509A...	variable	18008940

6 pin Connector/Female bs.	Length (m)	Material No.
4507A... and 4509A...	5	18008930
4507A... and 4509A...	variable	18008931

Type 4507A... and Type 4509A... Type 5867A...

6 pin to maXYmos BL	Length (m)	Material No.
4507A... and 4509A...	5	18009163
4507A... and 4509A...	variable	18009164

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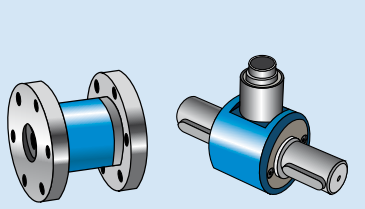
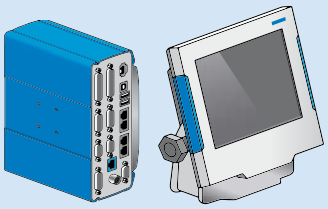
Cable and Connection Torque Sensor Type 4507A... and Type 4509A...

Measure | Connect | Amplify | Monitor & Control



Type 4507A... and Type 4509A...



Type 5877A...

6 pin to maXYmos TL	Length (m)	Material No.
4507A... and 4509A...	5	18009163
4507A... and 4509A...	variable	18009164

General Technical Data	
Protection Class IEC/EN 60529	IP40
Connector	6 pin install plug
Type of cable	LiYCY transparent shielded
Temperature range	–10 °C ... +70 °C
Bending radius	approx. 10x outside diameter
Data sheet	**4507A (0150RD), 4509 (0154RW)**

Accessories		
Coupling socket 6 pin	**Type**	**18008377**
Amplifier for strain gage sensors	**Type**	**4701A...**

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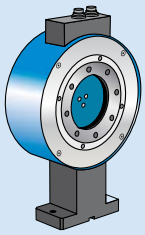
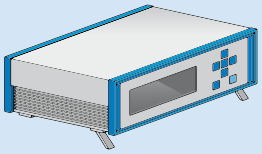
Cable and Connection Torque Sensor Type 4510B...

Measure	Connect	Amplify	Monitor & Control



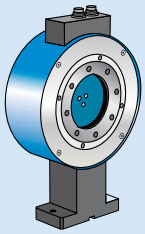
Type 4510B...



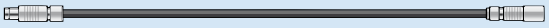
Type 4700B...

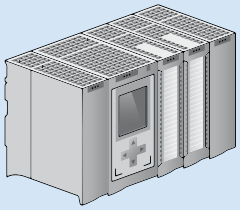
12 pin to CoMo Torque (Voltage)	Length (m)	Material No.
4510B...	2,5	18008967
4510B...	variable	18008968

12 pin to CoMo Torque (Frequency)	Length (m)	Material No.
4510B...	2,5	18008969
4510B...	variable	18008970



Type 4510B...





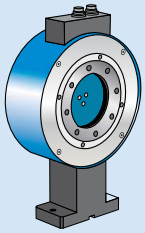
PLC

7 pin to free end	Length (m)	Material No.
4510B...	5	18008996
4510B...	variable	18008997

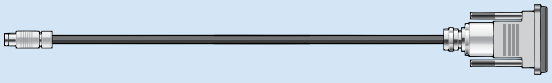
7 pin to SUB-D	Length (m)	Material No.
4510B...	5	18008994
4510B...	variable	18008995

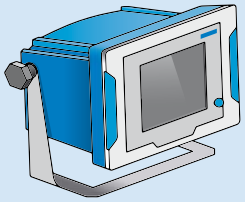
12 pin to free end	Length (m)	Material No.
4510B...	5	18008943
4510B...	variable	18008944

12 pin Female to 12 pin Male	Length (m)	Material No.
4510B...	5	18008935
4510B...	variable	18008936



Type 4510B...





Type 5867A...

12 pin to maXYmos BL	Length (m)	Material No.
4510B...	5	18029193
4510B...	variable	18029194

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Cable and Connection Torque Sensor Type 4510B...

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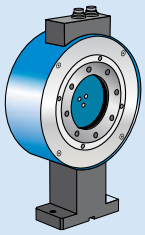
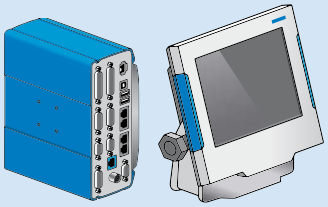


Type 4510B...



Type 5877A...

7 pin to maXYmos TL[1]	Length (m)	Material No.
4510B...	5	18031756
4510B...	variable	not available

12 pin to maXYmos TL	Length (m)	Material No.
4510B...	5	18026961
4510B...	variable	18027032

[1]Measuring range changeover

General Technical Data	
Protection Class IEC/EN 60529	IP40
Connector	7- and 12 pin install plug
Type of cable	LiYCY transparent shielded
Temperature range	–10 °C ... +70 °C
Bending radius	approx. 10x outside diameter
Data sheet see www.kistler.com	**4510B (000-737)**

Accessories

Coupling socket 7 pin	**Type**	**18008363**
Coupling socket 12 pin	**Type**	**18008371**
SensorTool	**Type**	**4706A**

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Cable and Connection Torque Sensor Type 4520A...

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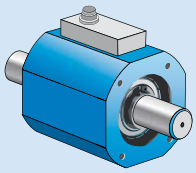
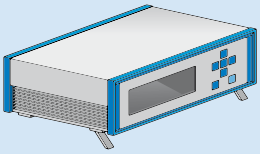
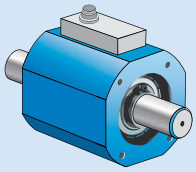


Type 4520A...

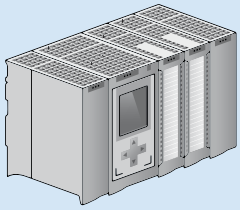


Type 4700B...

12 pin to CoMo Torque	Length (m)	Material No.
4520A...	2,5	18008963
4520A...	variable	18008964



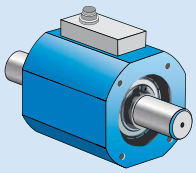
Type 4520A...



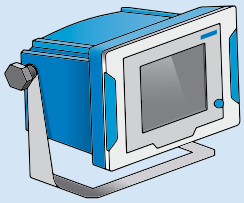
PLC

12 pin to free end	Length (m)	Material No.
4520A...	5	18008943
4520A...	variable	18008944

12 pin Connector both side	Length (m)	Material No.
4520A...	5	18008935
4520A...	variable	18008936



Type 4520A...



Type 5867A...

12 pin to maXYmos BL	Length (m)	Material No.
4520A...	5	18019422
4520A...	variable	18029045

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Cable and Connection Torque Sensor Type 4520A...

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Type 4520A... Type 5877A...

12 pin to maXYmos TL	Length (m)	Material No.
4520A...	5	18027071
4520A...	variable	18027073

General Technical Data	
Protection Class IEC/EN 60529	IP40
Connector	12 pin Binder connector
Type of cable	LiYCY transparent shielded
Temperature range	–10 °C ... +70 °C
Bending radius	approx. 10x outside diameter
Data sheet see www.kistler.com	**4520A (000-765)**

Accessories

Coupling socket 12 pin	**Type**	**18008371**
Couplings	**Type**	**2301A... to 2303A...**

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Cable and Connection Torque Sensor Type 4541A...

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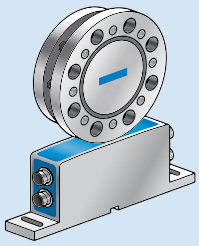
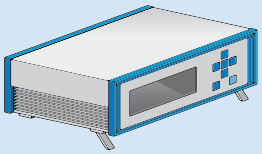


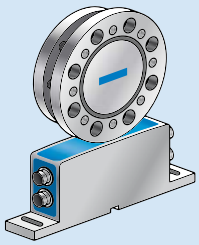
Type 4541A...



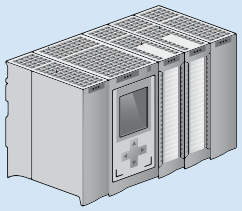
Type 4700B...

Connector X4 12 pin to CoMo Torque (Voltage)	Length (m)	Material No.
4541A...	2,5	18008967
4541A...	variable	18008968

Connector X4 12 pin to CoMo Torque (Frequency)	Length (m)	Material No.
4541A...	2,5	18008969
4541A...	variable	18008970



Type 4541A...



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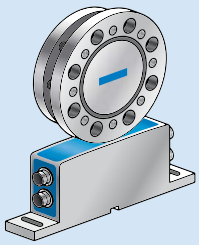
Connector X1 and X3 7 pin on free end	Length (m)	Material No.
4541A...	5	18008996
4541A...	variable	18008997

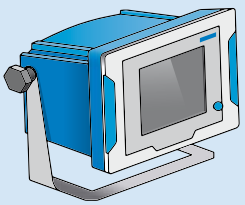
Connector X1 7 pol Special frequency cable for EMV compatibility	Length (m)	Material No.
4541A...	variable	18031630

Connector X4 12 pin to free end	Length (m)	Material No.
4541A...	5	18008943
4541A...	variable	18008944

Connector X2 14 pin Connector to free end	Length (m)	Material No.
4541A...	5	18017610
4541A...	variable	18030136



Type 4541A...



Type 5867A...

Connector X4 12 pin to maXYmos BL	Length (m)	Material No.
4541A...	5	18029193
4541A...	variable	18029194

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Cable and Connection Torque Sensor Type 4541A...

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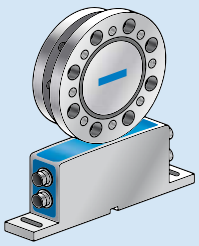
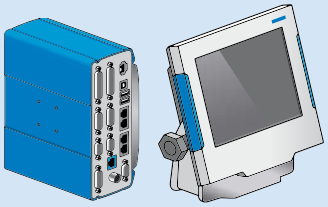


Type 4541A...



Type 5877A...

Connector X4

12 pin to maXYmos TL	Length (m)	Material No.
4541A...	5	18026961
4541A...	variable	18027032

Connector X5

USB cable	Length (m)	Material No.
4541A...	1,8	55115378

Connector X2

14 pin to maXYmos TL[1]	Length (m)	Material No.
4541A...	5	18032047
4541A...	variable	not available

[1] Measuring range changeover

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General Technical Data	
Protection Class IEC/EN 60529	IP40
Connector	7-, 12- and 14 pin install plug
Type of cable	LiYCY transparent shielded
Temperature range	–10 °C ... +70 °C
Bending radius	approx. 10x outside diameter
Data sheet see www.kistler.com	**4541A (000-879), 4542A (003-057), 4551A (003-169)**

Accessories		
Coupling socket 7 pin	**Type**	**18008363**
Coupling socket 12 pin	**Type**	**18008371**
Coupling socket 14 pin	**Type**	**18019319**
SensorTool	**Type**	**4706A**
Couplings	**Type**	**2300A... / 2305A...**

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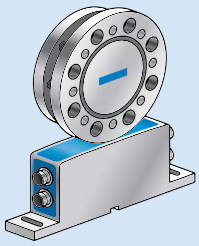
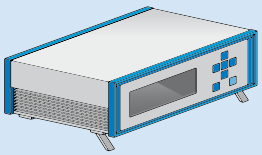
Cable and Connection Torque Sensor Type 4542A...

Measure | Connect | Amplify | Monitor & Control



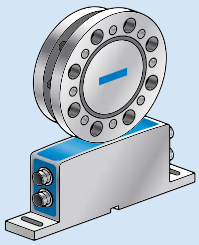
Type 4542A...



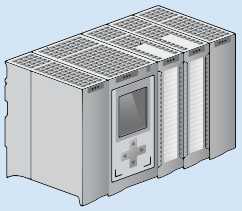
Type 4700B...

Connector X4 12 pin to CoMo Torque (Voltage)	Length (m)	Material No.
4542A...	2,5	18008967
4542A...	variable	18008968

Connector X4 12 pin to CoMo Torque (Frequency)	Length (m)	Material No.
4542A...	2,5	18008969
4542A...	variable	18008970



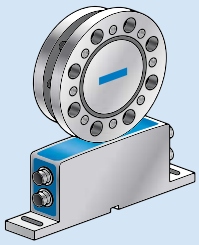
Type 4542A...



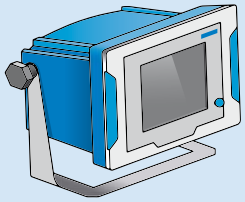
PLC

Connector X3 7 pin to free end	Length (m)	Material No.
4542A...	5	18008996
4542A...	variable	18008997

Connector X4 12 pin to free end	Length (m)	Material No.
4542A...	5	18008943
4542A...	variable	18008944



Type 4542A...



Type 5867A...

Connector X4 12 pin to maXYmos BL	Length (m)	Material No.
4542A...	5	18029193
4542A...	variable	18029194

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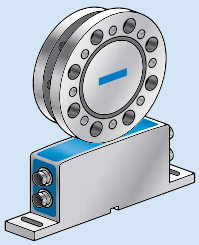
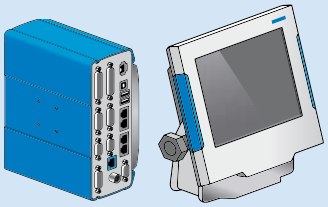


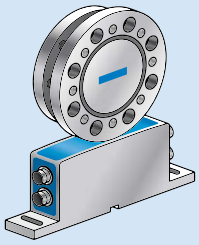
Type 4542A...



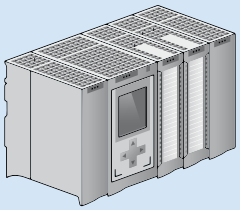
Type 5877A...

Connector X4 12 pin to maXYmos TL	Length (m)	Material No.
4542A...	5	18026961
4542A...	variable	18027032

Connector X5 USB cable	Length (m)	Material No.
4542A...	1,8	55115378

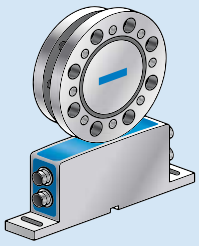


Type 4542A...

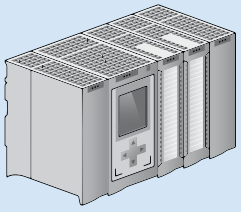


PROFINET
EtherCAT
EtherNet/IP

Connector X1 PROFINET, EtherCAT, EtherNet/IP M12 D coded RJ45 cat5e	Length (m)	Material No.
4542A...	2	55117503
4542A...	5	55117504
4542A...	10	18026867



Type 4542A...



PROFIBUS

Connector X2, PROFIBUS M12 B coded to free end	Length (m)	Material No.
4542A...	2	18029811
4542A...	5	55117502

Connector X2, PROFIBUS 1 to 1 extension à M12 B coded	Length (m)	Material No.
4542A...	2	55117321
4542A...	5	55117500

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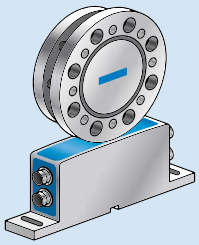
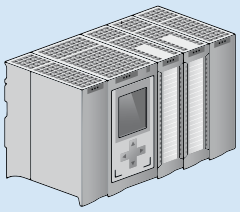


Type 4542A...



CAN Bus

Connector X2, CAN Bus M12 A coded to free end	Length (m)	Material No.
4542A...	2	55117499
4542A...	5	55117388

Connector X2, CAN Bus 1 to 1 extension - M12 A coded	Length (m)	Material No.
4542A...	2	18029812
4542A...	5	55117501

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General Technical Data		X1 + X2
Protection Class IEC/EN 60529	IP54	IP67
Connector	7-, and 12 pin install plug	bus connector M12
Type of cable	LiYCY transparent shielded	PUR
Temperature range	–10 °C ... +70 °C	–20 °C ... +80 °C
Bending radius	approx. 10x outside diameter	4x outside diameter fixed published 8x outside diameter flexible published
Datenblatt siehe www.kistler.com	**4542A (003-057), 4550A (000-880)**	

Accessories		
Coupling socket 7 pin	**Type**	**18008363**
Coupling socket 12 pin	**Type**	**18008371**
Coupling socket 14 pin	**Type**	**18019319**
SensorTool	**Type**	**4706A**
Couplings	**Type**	**2300A... / 2305A...**

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