









# Communication Cables

- A wide range of cable to meet the needs of variable measurement
- Custom made options available to meet your measurement needs

To Connect a Force Gauge, Torque Gauge or Amplifier to External Devices						
Type of Cable	Model	Image	Compatible Gauges	External Devices	Purpose of use	Length
Analog Cable	CB-108		ZTA/S eZT HTGS/A DTXS/A FA Plus2	Analog device like Pen Recorder, Oscilloscope, Multi Meter	Enables data recording of force transition.	Approx. 3m
Analog Cable (for ZT-AN)	CB-118		ZT-AN FA Plus2-AN	Analog device like Pen Recorder, Oscilloscope, Multi Meter	Outputs sensor data through analog voltage without conversion, for faster sending data.	Approx. 3m
RS232C Cable	CB-203		DSV DST	PC	Enables data recording and operation from PC.	Approx. 3m
	CB-208		ZTA/S eZT HTGS/A DTXS/A FA Plus2	PC	Enables data recording and operation from PC.	Approx. 3m
Digimatic Cable	CB-308		ZTA/S eZT HTGS/A DTXS/A FA Plus2	Mitutoyo Digimatic Printer	Enables to print out the measured values.	Approx. 3m
External Contact Point Cable	CB-808		ZTA/S eZT HTGS/A DTXS/A FA Plus2	External Equipment such as PLC.	Enables to measure external contact point.	Approx. 3m
Open End Cable	CB-908		ZTA/S eZT HTGS/A DTXS/A FA Plus2	External Equipment such as PLC.	Allows for connection with PLC with 37-pin open end cable.	Approx. 3m
Cable with Terminal Block	CTB-A *1		ZTA/S eZT HTGS/A DTXS/A FA Plus2	External Equipment such as PLC.	Allows for connection with external equipment such as PLC and liner scale DMK series (without connectors).	Approx. 1m











\*1 Insertable cable size for CTB-A. (single cable  $\phi 0.5 \sim 1.6$ , standard cable  $\phi 0.08 \sim 1.255$  mm, AWG28~16)

To Connect a Force Gauge, Torque Gauge or Amplifier to IMADA's Test Stands						
Type of Cable	Model	Image	Compatible Gauges	Test Stands	Purpose of use	Length
Force Control Cable	CB-508		ZTA/S eZT FA Plus2	IMADA's Motorized Test Stand MX series	Activates test stand's functions such as overload prevention and force control.	Approx. 1.5m
	CB-528		ZTA/S eZT FA Plus2	IMADA's Motorized Test Stand MX2/EMX series	Activates test stand's functions such as overload prevention and force control.	Approx. 1.5m
Displacement Cable	CB-718		ZTA eZT FA Plus2	IMADA's Motorized Test Stand MX2-FA/EMX series with firmware ver.2.0 or later	Activates test stand's functions such as overload prevention and displacement I/O.	Approx. 1.5m
	CB-728		ZTA eZT FA Plus2 DTXA	Motorized Test Stand EMX-FA with firmware earlier than ver.2.0/ Motorized Torque Stand MTS-10N-RA series	Activates test stand's functions such as overload prevention and displacement I/O.	Approx. 1.5m

\* Different cables are not able to connect to the same connector. We offer custom-made options to allow using two different cables at the same time.

To Connect IMADA's Test Stand to External Device						
Type of Cable	Model	Image	Compatible Stands	External Device	Purpose of use	Length
External Signals I/O Cable	CB-706		MX2-CN MH2-CN EMX	External Equipment such as PLC	Enables I/O of signal to external equipment.	Approx. 1.5m

\* Different cables are not able to connect to the same connector. We offer custom made options to allow using two different cables at the same time.

Cables for Old Model Force Gauge, Torque Gauge and Amplifier						
Type of Cable	Model	Image	Compatible Gauges	External Device	Purpose of use	Length
Analog Cable	CB-101		DS2	Analog device like Pen Recorder, Oscilloscope, Multi Meter, etc.	Enables data recording of force transition.	Approx.3 m
	CB-104		ZP Z2 HTG2 DTX2	Analog device like Pen Recorder, Oscilloscope, Multi Meter, etc.	Enables data recording of force transition.	Approx.3 m
RS232C Cable	CB-204		ZP Z2 HTG2 DTX2	PC	Enables data recording and operation from PC.	Approx.3 m
Digimatic Cable	CB-301		DS2	Mitutoyo Digimatic Printer	Enables to print out the measured values.	Approx.3 m
	CB-304		Z2 HTG2 DTX2	Mitutoyo Digimatic Printer	Enables to print out the measured values.	Approx.3 m
Test Stand Option Cable	CB-501		ZP Z2	Motorized Test Stand MX	Activates test stand's functions such as overload prevention and force control.	Approx.3 m
	CB-504		ZP Z2	Motorized Test Stand MX	Connect ZP/Z2 with Mx test stand and PC, activates test stand's functions such as overload prevention and force control.	Gauge side: approx.1.2m. PC side: Approx.2m.
	CB-705		FA Plus	Motorized Test Stand EMX	Activates test stand's functions such as overload prevention and displacement I/O.	Approx.1.5m
	CB-704		ZP Z2	Motorized Test Stand MX2 EMX	Activates test stand's functions such as overload prevention and force control.	Approx.1.5m
	CB-707		FA Plus	Motorized Test Stand MX2-FA	Activates test stand's functions such as overload prevention and force control.	Approx.1m

\* Different cables are not able to connect to the same connector. We offer custom made options to allow using two different cables at the same time.

Compatible Force Gauges List								
	ZTA	ZTS	eZT	DSV	DST	HTGS/A	DTXS/A	FA Plus2
CB-108	○	○	○	×	×	○	○	○
CB-203	×	×	×	○	○	×	×	×
CB-208	○	○	○	×	×	○	○	○
CB-308	○	○	○	×	×	○	○	○
CB-508	○	○	○	×	×	×	×	○
CB-528	○	○	○	×	×	×	○	○
CB-718	○	×	○	×	×	×	×	○
CB-728	○	×	○	×	×	×	○	○
CB-808	○	○	○	×	×	○	○	○
CB-908	○	○	○	×	×	○	○	○
CTB-A	○	○	○	×	×	○	○	○

Compatible Cables List		
	ZTA Series	ZTS Series
MX	○CB-508 (Force Control cable)	○CB-508 (Force Control cable)
MX-2/ FA Version/ CN Version	○CB-528 (Force Control cable) ○CB-718 (Displacement cable /FA version only) ○CB-706 (External Signals I/O cable /CN version only)	○CB-528 (Force Control cable) ○CB-706 (External Signals I/O cable /CN version only)
EMX/ FA Version	○CB-528 (Force Control cable) ○CB-718 For firmware ver.2.0 or later (Displacement cable /FA version only) ○CB-728 For firmware earlier than version 2.0 (Displacement cable /FA version only) ○CB-706 (External Signals I/O cable)	○CB-528 (Force Control cable) ○CB-706 (External Signals I/O cable)
MH-1000N	○CB-508 (Force Control cable)	○CB-508 (Force Control cable)
MH2/ FA Version/ CN Version	○CB-528 (Force Control cable) ○CB-718 (Displacement cable /FA version only) ○CB-706 (External Signals I/O cable /CN version only)	○CB-528 (Force Control cable) ○CB-706 (External Signals I/O cable /CN version only)

**[Custom made solution]**

We offer custom made options including the length extension, changing the connector (from analog output to BNC connector), enhance flexibility and more. Please contact us for details.

**[Cautions]**

- Information in this document is subject to change without prior notice.
- This document is product descriptions and handling precautions, and do not guarantee various characteristics or safety.
- This product is designed for force measurement purpose only.
- Do not copy and use this content without authorization.

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