











# Interface cables and specification datasheet



PHYSICAL  
PROPERTIES  
TESTERS  
GROUP

# Interface cables

Product image	Connect from	Connector A	Connect to	Connector B	Part no.	Function
<b>Torque Testers</b>						
	Orbis Mk1 2003 - 2007	15-way D-type plug (M)	Digimatic device (eg Mitutoyo printer)	10-way IDC socket (F)	351-055	Data transfer .... bi-directional
			PC, datalogger or serial printer	9-way D-type socket (F)	351-054	Data transfer .... bi-directional
	Orbis Mk2 & Tornado 2008	15-way D-type socket (F)	PC, datalogger or serial printer	9-way D-type socket (F)	351-087	Data transfer .... bi-directional
			PC, datalogger or serial printer	2 banana plugs	351-057	Data transfer .... uni-directional
			Analog devices	10-way IDC socket (F)	351-058	Data transfer .... bi-directional
	VTG Tornado 2021 -	9-way D-type plug (M)	PC, datalogger or serial printer	9-way D-type socket (F)	351-059	Data transfer .... bi-directional
				USB type A connector	351-086	Data transfer .... bi-directional
				2 banana plugs	351-060	Data transfer .... uni-directional
<b>Force Gauges</b>						
	CFG+ 2010 -	2.5mm Jack Plug (M)	PC, datalogger or serial printer	9-way D-type socket (F)	351-077	Data transfer .... uni-directional
	BFG-HS 2003-2007	15-way D-type plug (M)	Digimatic device (eg Mitutoyo printer)	10-way IDC socket (F)	351-055	Data transfer .... bi-directional
			PC, datalogger or serial printer	9-way D-type socket (F)	351-054	Data transfer .... bi-directional
			PC, datalogger or serial printer	USB type A connector	351-054	Data transfer .... bi-directional
	BFG 2008 -	15-way D-type plug (M)	Analog devices	2 banana plugs	351-057	Data transfer .... uni-directional
			MultiTest-d motorised stand	25-way D-type plug (M)	351-076	Data transfer only .... No stand control
	AFG and AFTI 2006 -	15-way D-type socket (F)	Digimatic device (eg Mitutoyo printer)	10-way IDC socket (F)	351-058	Data transfer .... bi-directional
			PC, datalogger or serial printer	9-way D-type socket (F)	351-059	Data transfer .... bi-directional
			PC, datalogger or serial printer	USB type A connector	351-086	Data transfer .... bi-directional
			Analog devices	2 banana plugs	351-060	Data transfer .... uni-directional
			MultiTest-d motorised stand	25-way D-type plug (M)	351-074	Gauge to stand (reverse/stop) & data transfer to stand
			MultiTest-dV motorised stand (Oct 2015 - April 2020)	RJ11 connector	351-092	Gauge to stand (reverse/stop) & data transfer to stand
			MultiTest-dV motorised stand (Oct 2015 - April 2020)	RJ11 connector	351-095	Gauge to stand (reverse/stop) only - no data transfer to stand
			MultiTest-dV motorised stand (May 2020 - now)	15-way D-type plug (M)	351-103	Gauge to stand (reverse/stop) & data transfer to stand
			Vortex-d motorised stand	25-way D-type plug (M)	351-074	Gauge to stand (stop only) & data transfer to stand
			Vortex-dV motorised stand (Jan 2016 - May 2020)	RJ11 connector	351-092	Gauge to stand (stop only) & data transfer to stand
			Vortex-dV motorised stand (Jan 2016 - May 2020)	RJ11 connector	351-095	Gauge to stand (stop only) - no data transfer to stand
Vortex-dV motorised stand (June 2020 - now)	15-way D-type plug (M)	351-103	Gauge to stand (stop only) & data transfer to stand			
	VFG and VFTI 2021 -	10-way Hirose socket (F)	MultiTest-dV motorised stand (Oct 2015 - April 2020)	RJ11 connector	351-110	Gauge to stand (reverse/stop) & data transfer to standw
			MultiTest-dV motorised stand (May 2020 - now)	15-way D-type plug (M)	351-112	Gauge to stand (reverse/stop) & data transfer to stand
		10-way Hirose socket (F)	Vortex-dV motorised stand (Jan 2016 - May 2020)	RJ11 connector	351-110	Gauge to stand (stop only) - no data transfer to stand
			Vortex-dV motorised stand (June 2020 - now)	15-way D-type plug (M)	351-112	Gauge to stand (stop only) & data transfer to stand
		10-way Hirose socket (F)	PC, datalogger or serial printer	9-way D-type socket (F)	351-107	Data transfer .... bi-directional
			PC, datalogger or serial printer	USB type A connector	351-109	Data transfer .... bi-directional



15-way D-type plug (M)



15-way D-type socket (F)



9-way D-type plug (M)



2.5mm Jack plug (M)



10-way Hirose socket (F)



10-way IDC socket (F)



9-way D-type socket (F)



USB\_A



2 banana plugs



25-way D-type plug (M)



RJ11 connector

# Interface cables

Product image	Connect from	Connector A	Connect to	Connector B	Part no.	Function
<b>Test stands</b>						
	MultiTest-d and Vortex-d pre 2015	9-way D-type plug (M)	PC, datalogger or serial printer	9-way D-type socket (F)	351-051	Data transfer .... bi-directional
	MultiTest-dV & Vortex-dV 2015 -	USB type B connector	PC, datalogger or serial printer	USB type A connector	351-093	Data transfer .... bi-directional
	Console of MultiTest-xt, Vortex-xt, Helixa-xt & FPT-H1-xt 2015 -	USB type A connector	PC, datalogger or serial printer	USB type A connector	351-081	Data transfer .... bi-directional
	MultiTest-i/xt and Vortex-i/xt 2015 -	25-way D-type plug (M)	PC running Emperor software PC running Emperor software	2 crocodile clips Footswitch	351-080 PDV14081	Event-input cable to capture switch actuation points Footswitch to simulate 'start' button on Emperor software
<b>Loadcells</b>						
	ELS 2019 -	6-way DIN Hirose plug (M)	MultiTest 2.5-dV motorised stand (May 2020 - now) MultiTest 0.5-dV and 1-dV motorised stands (May 2020 - now) VFG & VFT1 force gauges VFG & VFT1 force gauges VFG & VFT1 force gauges	12-way DIN Hirose plug (M) 12-way DIN Hirose plug (M) 10-way DIN Hirose socket (F) 10-way DIN Hirose socket (F) 10-way DIN Hirose socket (F)	352-275 352-275-V01 351-104 351-104-V01 351-104-V02	Data transfer .... loadcell to test stand Data transfer .... loadcell to test stand Data transfer .... loadcell to gauge (670 mm long) Data transfer .... loadcell to gauge (1270 mm long) Data transfer .... loadcell to gauge (3000 mm long)
<b>RS232 Transmission cable</b>						
	Converter	9-way D-type plug (M)	PC, datalogger or serial printer with USB input	USB type A connector	432-450	converts from existing cable to USB-A

9-way D-type plug (M)

9-way D-type socket (F)

USB\_B

USB\_A

USB\_A

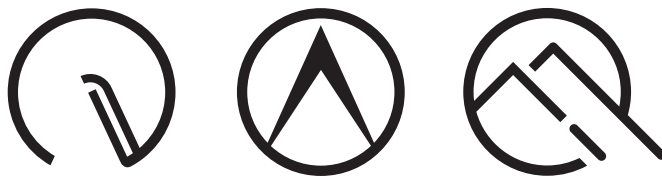
2 crocodile clips

25-way D-type plug (M)

Footswitch

6-way Hirose plug (M)

12-way Hirose plug (M)



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