











Interface cables
and specification
datasheet



**PHYSICAL
PROPERTIES
TESTERS
GROUP**

Interface cables

| Product image | Connect from | Connector A | Connect to | Connector B | Part no. | Function |
|---|-----------------------------|--------------------------|--|-------------------------|----------|--|
| Torque Testers | | | | | | |
|  | 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 | | | |
|  | VTG Tornado 2021 - | 9-way D-type plug (M) | 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 |
| | | | PC, datalogger or serial printer | USB type A connector | 432-450 | Data transfer bi-directional |
| Force Gauges | | | | | | |
|  | 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 |
| | | | Analog devices | 2 banana plugs | 351-057 | Data transfer uni-directional |
|  | BFG 2008 - | 15-way D-type plug (M) | 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 |
| | | | 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 |
| | | | 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 |
|---------------------------------|--|---------------------------|---|--|---|--|
| Test stands | | | | | | |
| | 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 |
| Loadcells | | | | | | |
| | 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) |
| | | | | | | |
| RS232 Transmission cable | | | | | | |
| | 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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