

QUALIFICATION TEST RECORD

According to DS/EN ISO 9001 Sec. 4.10

Mac-4.10.11

Attachment A

**QUALIFICATION TEST RECORD (EXTRACT)
SUBCONN D-P4TP24 ETHERNET CABLE****Test conclusion:**

The qualification test shows that cable lengths as long as 100m will run Gigabit Ethernet (1000Mbps). Furthermore it is proven that pressure or noise does not change the possible link speed for Ethernet.

In the table below bandwidth vs. cable length can be seen for different test environments:

	25 m	50 m	75 m	100 m
Air	1000Mbps	1000Mbps	1000Mbps	1000Mbps
Air (noise)	1000Mbps	1000Mbps	1000Mbps	1000Mbps
Water 200bar	1000Mbps	1000Mbps	1000Mbps	1000Mbps
Water 600bar	1000Mbps	1000Mbps	1000Mbps	1000Mbps

The results for the Subconn cable assembly are strictly limited to the standard Ethernet protocol. It is important to consider that these tests have been performed using RFC2544 TCP/IP test specification. In case of application specific non-standard protocols, several issues can affect the bandwidth.

The Subconn Ethernet cable assembly is therefore only recommended for instruments using standard Ethernet network interface controllers.

Furthermore the cable should not be used for Firewire (IEEE1394a/b/c), USB, Serial ATA or other high-speed serial interface standards. Extensive testing will be necessary to prove compliance with such.