

HERCULES

goes-the-distance...

When proven performance is Mission Critical

... Accept No Limitations!



HERCULES' FIELD-TESTED ADVANTAGES

- 4 Sizes Available for Saving Space
- Highest Density – Up to 44 Differential Pairs
- Standard Key Ways N&A Stocked (alternatives available)
- Standard D38999 Plating Stocked (alternatives available)
- 500 Mating Cycles
- Cable Types Available in 24, 26, 28, 30AWG, High Bandwidth
- -40 °C to +175 °C
- Tested to D38999 QPL VITA 46 Shock and Vibration

Meritec High Performance Hercules Cable Assemblies Data Rate – Wire Gauge vs. Performance Over Length

		Length, Meters →																				
		Data Rate / Lane																				
30 AWG																						
IB SDR*	2.5 Gb/s																					
IB DDR	5.0 Gb/s																					
IB QDR	10.0 Gb/s																					
CX4	3.125 Gb/s																					
802.3ba (40GbE)	10.0 Gb/s																					
28 AWG																						
		Data Rate / Lane																				
IB SDR*	2.5 Gb/s																					
IB DDR	5.0 Gb/s																					
IB QDR	10.0 Gb/s																					
CX4	3.125 Gb/s																					
802.3ba (40GbE)	10.0 Gb/s																					
26 AWG																						
		Data Rate / Lane																				
IB SDR*	2.5 Gb/s																					
IB DDR	5.0 Gb/s																					
IB QDR	10.0 Gb/s																					
IB FDR	14.0 Gb/s																					
802.3ba (40G/100G)	40GBASE-KR4 – 10.0 Gb/s																					
CX4	3.125 Gb/s																					
CAT6 – 250 MHz	10GBASE-T 10 Gb/s																					40m
CAT7 – 600 MHz	10GBASE-T 10 Gb/s+																					80m
CAT7a – 1000 MHz	25GBASE-T 25 Gb/s																					24m
CAT8 – 2000 MHz	40GBASE-T 40 Gb/s																					24m
DP 2.0	40 Gb/s																					
HDMI 1.4 / 2.0	10.2 Gb/s / 18 Gb/s																					40m
USB 3.1 (PWR. Restr)	10 Gb/s																					
Firewire (1394b-1600)	1.573 Gb/s (Max. 16 Chain)																					72m
24 AWG																						
		Data Rate / Lane																				
IB SDR*	2.5 Gb/s																					
IB DDR	5.0 Gb/s																					
IB QDR	10.0 Gb/s																					
IB FDR	14.0 Gb/s																					
802.3ba (40G/100G)	10.0 / 25.0 Gb/s (Twinax)																					
CX4	3.125 Gb/s																					
802.3ba (40G/100G)	10.0 / 25.0 Gb/s																					

*IB refers to InfiniBand® Trade Association Specification / CX4 refers to the 10GBase Ethernet-CX4 Specification.

- Low-latency (minimal delay) server-switch-memory links (Link speed – per lane IB SDR-2.5 Gb/s, DDR-5.0 Gb/s, QDR-10 Gb/s, FDR-14 Gb/s, EDR-25 Gb/s, HDR-50 Gb/s)
- NRZ signaling – transmits data bits serially one at a time, Nyquist frequency one-half the bit rate.
- PAM4 signaling – the baud rate equals one-half the bit rate, Nyquist frequency equals one-fourth the bit rate (under the same baud rate, the bit rate of a PAM4 signal is twice that of an NRZ signal, doubling transmission efficiency) High Latency (long delay) – Ethernet Cables (802.3an-10 Gb/s, bq-25/40 Gb/s)

Visit meritec.com or call for more information about **Hercules**

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A Qnnect Company



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