

1394 cables for moving applications

Alysium

igus



1394 drag chain cables for moving applications

Allied Vision's mechanically robust, drag chain and robot 1394 cables are ideal for moving applications. The high quality cables guarantee low damping and best signal quality for all speeds.

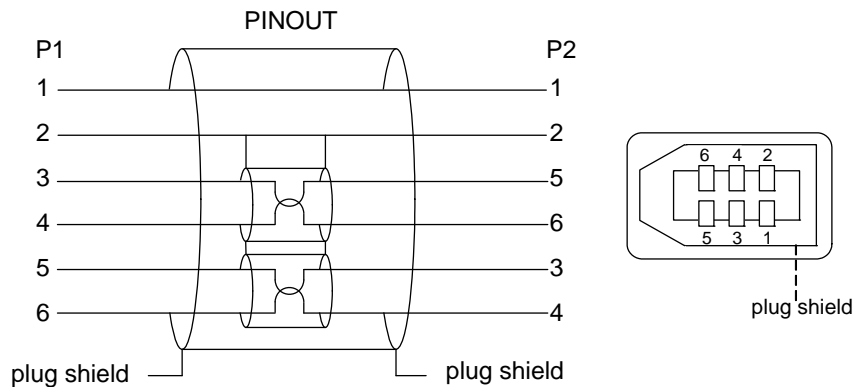
Specifications




Feature	1394a, robust	1394a, drag chain
Cycles (not directly comparable due to different test conditions)	1,000,000 (2 return sheaves, r = 120 mm)	6,000,000 (drag chain @ radius 75 mm stroke 600 mm accel. 10 m/s ² speed 2 m/s)
Jacket	Pb free PVC; 7.2 mm Ø	TPE based; 7.5 mm Ø
Outer shield	Tinned annealed Cu wire, >85 % coverage	Tinned annealed Cu wire, ca. 90 % coverage
Conductor A (data)	Tinned copper, 30 x 0.08 (AWG26); 0.405 mm	Tinned copper, AWG 26
Conductor B (power)	Tinned copper, 105 x 0.08 (AWG20); 0.813 mm	Bare copper, AWG 22
Max. DC resistance	38.3 Ω/km at 20 °C (Conductor B)	264 Ω/km (conductor A) 116 Ω/km (conductor B)
Char. Impedance	110 Ω ± 6%	n/a
Attenuation	0.3 dB/m @ 100 MHz 0.4 dB/m @ 200 MHz 0.6 dB/m @ 400 MHz 1.0 dB/m @ 1000 MHz	n/a
Time delay	Max. 5.05 ns/m	n/a
Skew delay	Max. 400 ps/m between pairs	n/a
Compliance	UL 20276 (80 °C, 30 V), ROHS	ROHS, CE, UL, DESINA

Pinout

IEEE 1394a



Connectors are viewed as looking at the front plug face.

*Twisted pair shields are only connected by using cable material according to IEEE Std 1394TM -1995.

If cable material according to IEEE Std 1394b™ -2002 is used, twisted pair shields are not connected inside the cable.

Plug 1	Signal name at plug 1	Plug 2
1	V _P (Power Voltage)	1
2	V _G (Power Ground)	2
3	TPB* (Twisted Pair B minus)	5
4	TPB (Twisted Pair B plus)	6
5	TPA* (Twisted Pair A minus)	3
6	TPA (Twisted Pair A plus)	4
Plug shield	Cable outer shield	Plug shield

Product codes

Description	Length	Order number
Cable 1394a, latch - latch, robust	1.0 m	K1200187
	2.0 m	K1200189
	3.0 m	K1200190
	4.5 m	K1200166
Cable 1394a, latch - latch, drag chain	4.5 m	K1200200
	6.0 m	K7200039
	10.0 m	K7200038

Other cable lengths are available on request.

Disclaimer

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