

IEEE1394 I/F

1394.a Interface

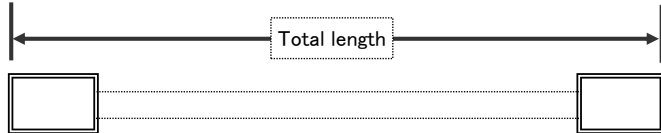


Lock

1394.b Interface



M3.0
Thumb
Screw



★Robot (Bending・Twisting・
U-bending) usage cable.

I / F Product name					
N	□□	△△△	▲▲▲	◇◇	■ ■
NISSEI Manufacturing	Transmission standard	Connector	Connector	Cable	Total length (m)
	4 A	6 S	6 S	Please select from a cable list.	1m unit
	4 B	9 N S	9 N S		
※Example Product name N 4 B 9 N S 9 N S 4 B 4 m					

Transmission standard				Cable as difuned	4 A Wiring Chart		4 B Wiring Chart		
4 A	IEEE1394. a 【max 400MHz】				Plug 1	Plug 2	Plug 1	Plug 2	Signal name
4 B	IEEE1394. b 【max 800MHz】			B Data (110Ω)	6	4	1	3	TPB-
Item		1394. a	1394. b		5	3	2	4	TPB+
D, Impedance (Ω)		110±6		A Data (110Ω)	4	6	3	1	TPA-
Delay time (ns/m)		< 5.1			3	5	4	2	TPA+
skew (ps/total length)		< 400	< 160	A GND			5	9	TPA(R)
Attenuation (dB/total length)	100MHz	< 2.3	—	Power GND	2	2	6	6	VG
	200MHz	< 3.2	—				7	7	
	250MHz	—	< 3.3	Power	1	1	8	8	VP
	400MHz	< 5.8	< 4.1	B GND			9	5	TPB(R)
	500MHz	—	< 4.9	Shield	SHELL	SHELL	SHELL	SHELL	
	800MHz	—	< 6.2						
	1000MHz	—	< 7.5						
Connector	6 S (4 A)	6pin male Straight (Lock)							
	9 N S (4 B)	9pin male Straight (Thumb Screw)							

Cable						Cable length 【Guideline】		
Product name	Applicatio n	Diameter	Color	Standard	Conformity	oil-resistant characteristic	4 A	4 B
4 S	Standard	7.6φ	Gray	UL20276 80°C 30V RoHS	4A	JIS K 6723 (Resistance to oil PVC)	9.0m	
4 B	High Robot	7.6φ	Black				7.5m	
4 G	High Robot	7.6φ	Black				5.5m	
4 B S	Standard	8.0φ	Gray		4B			5.0m
4 B B	High Robot	8.0φ	Black					4.5m