



Construction:		OD (In.)
1) Conductor:	26 AWG 7/34 Silver Plated Copper	0.0189 +/- 0.001"
Insulation Material:	Solid Fluorinated Ethylene Propylene (FEP)	0.036 +/- 0.003"
Pair Colors:	White with Blue stripe/Blue, White with Green stripe/Green White with Brown stripe/Brown, White with Orange stripe/Orange	
2) Filler:	Fluoropolymer Composite Spline Cable 4 pairs with spline	0.175" nom.
3) Binder:	Fluoropolymer Tape	0.185" nom.
4) Shield:	Aluminum/Polyimide	0.190" nom.
5) Outer Braid:	Round Silver Plated Copper 90% min. coverage	0.206" nom.
6) Jacket:	Blue Tint FEP	0.236" nom.
Marker Tape:	"Harbour industries Datamaster SE100-26(7)-FS/F"	

Physical Characteristics:	
1) Weight per 1000':	45 lbs nom
2) Minimum bend radius:	1.20"
3) Operating temperature range:	-55C - 200 °C
4) RoHS compliance:	Complies with RoHS (Directive 2002/95/EC)

Electrical Characteristics:				
1) Impedance:	100.0	+/- 15 ohms		
2) Capacitance:	14.5	pF/Ft nom.		
3) Velocity of Propagation:	70.0%	nom.		
4) Conductor DC Resistance:	62.0	ohms/1000 Ft max.		
5) Dielectric Voltage Rating:	1.5	kV RMS		
6) Transmission Characteristics (worst case):				
	Freq. (MHz)	Structural Return Loss (SRL) dB Min.	Near End Cross Talk (NEXT) dB/Min.	Attenuation dB/100ft Typ. / Max.
	10	25.0	50.0	3.3 / 3.7
	100	19.0	35.0	11.1 / 12.7

**** Max length to meet Arinc Specification 664 and the TIA 568 Cat6A Cable Cord Insertion Loss is 208ft.

Typ. = Average between pairs
Max. = Worst Case

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Approved By:	S. Dike			
Date:	8/8/08	Part Number:	H7864	Rev:
Scale:	None			B
Drawing Name:	Data Master TM 4E100-26(7)-FS/F			Sheet:
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