				REVISION RE	CORD	
		Rev	Date		cription	Auth
		-	09/13/04	Initial release.	•	FM
	consisting of two poly twisted, with an overa	D-267 a flexible balar vethylene-insul all braided shie	005 DIA	1 2 .081 +.003 /008 DIA 2 PLACES transmission line cab d tinned copper cond outer jacket.	uctors,	
	Approvals	Date		CORPOR	ΑΤΙΟΝ	
Prep:	F. Motley	09/13/04		Fernando Road,	Los Angeles, C	
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Mfg:	J. Wiley	09/13/04	Web: www	v.nationalwire.com	email: info@nationa	alwire.com
QA	R. Delacanal	09/13/04				
	Dimensions are in inches					
NA	TIONAL WIRE & CABLE CORPO	RATION	Ca	ble, Electronic, <sup>-</sup>	Twinaxial, 98-oł	nm
	FEDERAL MFGR CAGE NO. 0	4569		D-2672		Rev: -
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1	Jacket	polyvinylchloride compound Jacket shall be applied to b dence of the underlying twis	•	· ·	
			marked with mfgr CAGE code number "04 at at intervals of approximately 1 foot.	.569" and	
2	Outer conductor	The outer conductor shall be tinned copper braid of #36 AWG wires. Coverage shall be greater than 90%.			
3	Barrier	A barrier wrap of 1/2 mil clear polyester tape shall be applied over the twisted bun- dle of insulated wires and filler, under the braided shield layer.			
4	Conduc- tors	The cable shall contain two (2) conductors of AWG 22(7x30) stranded tin per meeting the requirements of ASTM-B-286.			
			dually insulated with a solid dielectric of pol f the insulation shall be .081 inch, +.003 /00		
		•	all be twisted to form a flexible balanced pair	transmis-	
5	Filler	Filler, used to round the cable, shall be polyethylene.			
6	Cabling	To ensure consistent flexibility of the cable, all wires shall be given a precision helical twist using planetary cable-forming machines with full back-twist neutralization to form the cable. There shall be no evidence of residual twist in the components.			
7	HV Spark Test	100% of insulated wire shall pass a 3400-volt AC 60 Hz. "spark" test prior to processing.			
8	Final Test	Finished cable shall withstand a 1500-volt AC, 60 Hz, High Potential Withstand test applied wire-to-wire, and wire-to-shield. Test potential shall be applied con- tinuously for one minute without arcing or other evidence of failure. All conductors shall be tested to verify continuity.			
9	Weight	34 pounds per 1000 feet, estimated.			
10	Temp.	Operating temperature: -55C to +80C.			
ΝΛΤ			Coble Flectronic Twinewiel 00	ahm	
NATIONAL WIRE & CABLE CORPORATION   FEDERAL MFGR CAGE NO. 04569			Cable, Electronic, Twinaxial, 98 D-2672	Rev: -	

11	Electrical	The balanced (differential) characteristic impedance of the line shall be 98. ohms +/- 15.
		(note: impedance tolerance is typical for 100-ohm Cat 5 digital signal pairs)
		Maximum operating voltage: 1000 volts RMS.
		Conductor loop resistance: 34.5 ohms per 1000 feet.
		Loss: Attenuation per 100 feet of cable shall not be more than 20 percent above the following values:
		0.2 dB at 100 kilohertz,
		0.61 dB at 1 megahertz
		1.9 dB at 10 megahertz
		2.3 dB at 14 megahertz
		6.0 dB at 100 megahertz
		NOTES:
		The nominal wire-to-wire capacitance shall be 15.6 picofarads per foot.
		The nominal velocity of propagation shall be 65.9 % of velocity in air.
		This cable is similar to cable 77C714807 rev B.

TABLE A				
Wire No.	Color			
1	BLUE			
2	NATURAL TRANS			

NATIONAL WIRE & CABLE CORPORATION	Cable, Electronic, Twinaxial, 98-ohm		
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