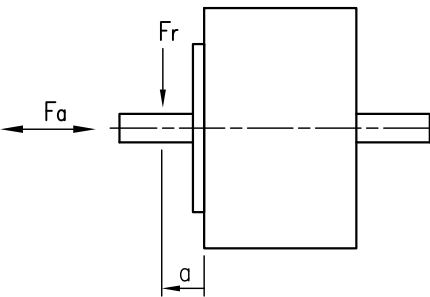


[illegible]

Technical drawing of a cable assembly showing dimensions and components:

- Overall length: 11 ± 0.5
- Distance from end to first feature: 0.8
- Outer diameter of the main cable: $\varnothing 10_{-0.1}^0$
- Distance from end to the start of the main cable: $1.5_{0}^{+0.25}$
- Distance from the start of the main cable to the connector: 22Max.
- Distance from the start of the main cable to the connector: 12.2
- Inner diameter of the main cable: $\varnothing 2_{-0.008}^0$
- Connector label: Connect
- Cable specification: AWG 26 L=250 $\pm$ 10

SPECIFICATION		CONNECTION		UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL	PERMISSIBLE RADIAL+AXIAL FORCE 				
VOLTAGE (VDC)				5.0	7.0					
AMPS/PHASE				0.86	0.61					
RESISTANCE/PHASE (Ohms)@25°C				5.8±10%	11.6±10%					
INDUCTANCE/PHASE (mH) @1KHz				3.2±20%	12.8±20%					
HOLDING TORQUE (Nm) [lb-in]				0.055 [0.487]	0.078 [0.689]					
DETENT TORQUE (Nm) [lb-in]				1.25x10 ⁻² [0.111]						
STEP ANGLE (°)				7.5						
STEP ACCURACY (NON-ACCUM)				±7%						
ROTOR INERTIA (Kg-m ²) [lb-in ²]				7.5x10 ⁻⁷ [1.71x10 ⁻³]						
WEIGHT (Kg) [lb]				0.09 [0.198]						
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)						AXIAL-FORCE Fa (N)	Fa=1.5			
AMBIENT TEMPERATURE -10~ 40°C [14°F ~ 104°F]						DISTANCE a (mm)	1/2 SCHAFTLENGTH			
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)						RADIAL-FORCE Fr (N)	Fr=3.0			
INSULATION CLASS E 120° [248°F]							AXIAL RADIAL			
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)						SHAFT PLAY (mm)	0.08 0.06			
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)						AT LOAD MAX: (N)	4.5 4.5			
3	DRAWING UPDATED	22.02.10	J.W.	Nanotec PLUG & DRIVE SP3575M0906-A		SCALE FREE	APVD	S.Ha.	12.03.07	STEPPING MOTOR DWG.NO SP3575M0906-A
2	AMPS/PHASE	28.08.08	J.W.			X ±0.5	CHKD			
1	VALUE	28.06.07	J.W.			1PL ±0.2	DRN	J.W.	23.11.06	
REV	DESCRIPTION	DATE	APVD			2PL ±0.1	SIGNATURE		DATE	
						ANGLE ±30'				

TYPE OF CONNECTION (EXTERN)				MOTOR		
UNIPOLAR	BIPOLAR		CONNECTOR PIN NO.	LEADS	WINDING	
	1WINDING	SERIAL				
A —	A —	A —	1	WHT	A —	
COM —	COM —	—	5	BLK	COM —	
A\ —	—	A\ —	3	RED	A\ —	
B —	B —	B —	2	BLU	B —	
COM —	COM —	—	6	BRN	COM —	
B\ —	—	B\ —	4	YEL	B\ —	

for >speed ←

for <speed ←

FULL STEP 2 PHASE-Ex.,
WHEN FACING MOUNTING END (X)

STEP	A	B	A\	B\		
1	+	+	-	-	CW CCW	
2	-	+	+	-		
3	-	-	+	+		
4	+	-	-	+		

WIRING DIAGRAM

(A)WHT

(COM)BLK

(A\)RED

(B)BLU

(COM)BRN

(B\)YEL