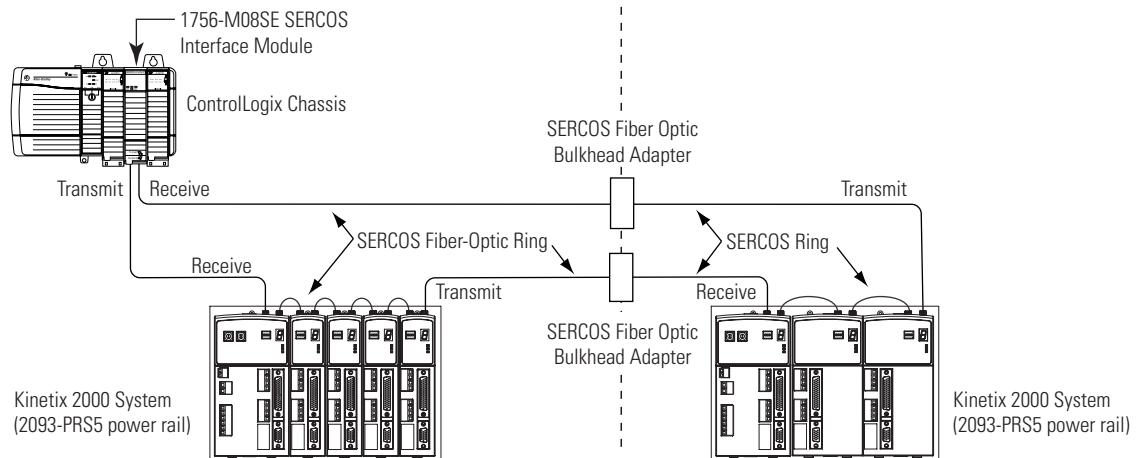


In this example, the second Kinetix 2000 system is located in a separate cabinet and connected with bulkhead adapters.

IMPORTANT

To avoid signal loss, do not use bulkhead adapters to connect glass cables. Use bulkhead adapters only for plastic-to-plastic cable connections.

Fiber-optic Cable Example 4 (bulkhead adapters)



SERCOS Cables

The Kinetix 2000 supports the SERCOS fiber optic cables listed in the table.

Refer to the Fiber-optic Cable Installation and Handling Instructions, publication 2090-IN010, for additional information.

SERCOS Cable Selection for Kinetix 2000 Drives

Connection	Adjacent Connection (module to the right)	Catalog Number of SERCOS Cable ⁽¹⁾
2093-AC05-MP1 2093-AC05-MP2 2093-AC05-MP5	2093-AMP1 2093-AMP2 2093-AMP5	2090-SCEP0-1 series B
2093-AC05-MP1 2093-AC05-MP2 2093-AC05-MP5	2093-AM01 2093-AM02	2090-SCEP0-2
2093-AMP1 2093-AMP2 2093-AMP5	2093-AMP1 2093-AMP2 2093-AMP5	2090-SCEP0-1 series B

SERCOS Cable Selection for Kinetix 2000 Drives

Connection	Adjacent Connection (module to the right)	Catalog Number of SERCOS Cable ⁽¹⁾
2093-AMP1 2093-AMP2 2093-AMP5	2093-AM01 2093-AM02	2090-SCEP0-2
2093-AM01 2093-AM02	2093-AM01 2093-AM02	2090-SCEP0-2
2093-AM01 2093-AM02	2093-AMP1 2093-AMP2 2093-AMP5	2090-SCEP0-1 series B

⁽¹⁾ Series B indicates an improved bend radius for use with Kinetix drives.

Inverter Power Specifications

The following tables list power specifications for the inverter section that resides within an integrated axis module or an axis module.

IAM Inverter Power Specifications

Attribute	2093-AC05-MP1	2093-AC05-MP2	2093-AC05-MP5
Bandwidth Velocity Loop ⁽¹⁾ Current Loop	500 Hz 860 Hz		
PWM frequency	8 kHz		
Nominal input voltage	325V dc		
Continuous current (rms)	1.0 A	2.0 A	3.0 A
Continuous current (0-pk)	1.41 A	2.83 A	4.24 A
Peak current (rms)	3.0 A	6.0 A	9.0 A
Peak current (0-pk)	4.20 A	8.48 A	12.7 A
Peak output current time, max	3 s from 0% drive utilization (0% soak)		
Continuous power out, nom	0.3 kW	0.6 kW	0.9 kW
Efficiency	98%		
Capacitance	200 μ F		
Capacitive energy absorption	7.5 J		
Inverter PCB leakage current	1 mA		

⁽¹⁾ Bandwidth values in the velocity loop vary based on tuning parameters and mechanical components.

AM Inverter Power Specifications

Specification	2093-AMP1	2093-AMP2	2093-AMP5	2093-AM01	2093-AM02
Bandwidth ⁽¹⁾ Velocity Loop Current Loop	500 Hz 860 Hz				
PWM frequency	8 kHz				
Nominal input voltage	325V dc				
Continuous current (rms)	1.0 A	2.0 A	3.0 A	6.0 A	9.5 A
Continuous current (0-pk)	1.41 A	2.83 A	4.24 A	8.48 A	13.4 A
Peak current (rms)	3.0 A	6.0 A	9.0 A	18.0 A	28.5 A
Peak current (0-pk)	4.20 A	8.48 A	12.7 A	25.5 A	40.3 A
Peak output current time (max)	3 s from 0% drive utilization (0% soak)				
Continuous power out (nom)	0.3 kW	0.6 kW	0.9 kW	1.9 kW	3.0 kW
Efficiency	98%				
Capacitance	200 μF			540 μF	
Capacitive energy absorption	7.5 J			20 J	
Inverter PCB leakage current	1 mA				

⁽¹⁾ Bandwidth values vary based on tuning parameters and mechanical components.