

Note: Circled numbers refer to the configuration diagram on page I-3.

## ① Servo Motor Power Cables

Applicable servo motors	Length	Model	
		For motors without brakes	For motors with brakes
30-W to 750-W Cylindrical style motors (3,000 RPM) 100-W to 750-W Flat style motors (3,000 RPM)	3 m	R88A-CAWA003S	R88A-CAWA003B
	5 m	R88A-CAWA005S	R88A-CAWA005B
	10 m	R88A-CAWA010S	R88A-CAWA010B
	15 m	R88A-CAWA015S	R88A-CAWA015B
	20 m	R88A-CAWA020S	R88A-CAWA020B
	30 m	R88A-CAWA030S	R88A-CAWA030B
	40 m	R88A-CAWA040S	R88A-CAWA040B
	50 m	R88A-CAWA050S	R88A-CAWA050B
1.5-kW Flat style motors	3 m	R88A-CAWB003S	R88A-CAWB003B
	5 m	R88A-CAWB005S	R88A-CAWB005B
	10 m	R88A-CAWB010S	R88A-CAWB010B
	15 m	R88A-CAWB015S	R88A-CAWB015B
	20 m	R88A-CAWB020S	R88A-CAWB020B
	30 m	R88A-CAWB030S	R88A-CAWB030B
	40 m	R88A-CAWB040S	R88A-CAWB040B
	50 m	R88A-CAWB050S	R88A-CAWB050B
300-W to 900-W Cylindrical style motors (1,000 RPM) 1-kW to 2-kW Cylindrical style motors (3,000 RPM)	3 m	R88A-CAWC003S	R88A-CAWC003B
	5 m	R88A-CAWC005S	R88A-CAWC005B
	10 m	R88A-CAWC010S	R88A-CAWC010B
	15 m	R88A-CAWC015S	R88A-CAWC015B
	20 m	R88A-CAWC020S	R88A-CAWC020B
	30 m	R88A-CAWC030S	R88A-CAWC030B
	40 m	R88A-CAWC040S	R88A-CAWC040B
	50 m	R88A-CAWC050S	R88A-CAWC050B
1.2-kW to 3-kW Cylindrical style servo motors (1,000 RPM) 3-kW to 5-kW Cylindrical style servo motors (3,000 RPM) 1.8 kW to 4.4 kW Cylindrical style servo motors (1,500 RPM)	3 m	R88A-CAWD003S	R88A-CAWD003B
	5 m	R88A-CAWD005S	R88A-CAWD005B
	10 m	R88A-CAWD010S	R88A-CAWD010B
	15 m	R88A-CAWD015S	R88A-CAWD015B
	20 m	R88A-CAWD020S	R88A-CAWD020B
	30 m	R88A-CAWD030S	R88A-CAWD030B
	40 m	R88A-CAWD040S	R88A-CAWD040B
	50 m	R88A-CAWD050S	R88A-CAWD050B
5.5 kW Cylindrical style servo motors (1,500 RPM) 4 kW Cylindrical style servo motors (1,000 RPM)	3 m	R88A-CAWE003S	R88A-CAWE003B §
	5 m	R88A-CAWE005S	R88A-CAWE005B §
	10 m	R88A-CAWE010S	R88A-CAWE010B §
	15 m	R88A-CAWE015S	R88A-CAWE015B §
	20 m	R88A-CAWE020S	R88A-CAWE020B §
	30 m	R88A-CAWE030S	R88A-CAWE030B §
	40 m	R88A-CAWE040S	R88A-CAWE040B §
	50 m	R88A-CAWE050S	R88A-CAWE050B §
7.5 to 11 kW Cylindrical style servo motors (1,500 RPM) 5.5 kW Cylindrical style servo motors (1,000RPM)	3 m	R88A-CAWF003S	R88A-CAWF003B §
	5 m	R88A-CAWF005S	R88A-CAWF005B §
	10 m	R88A-CAWF010S	R88A-CAWF010B §
	15 m	R88A-CAWF015S	R88A-CAWF015B §
	20 m	R88A-CAWF020S	R88A-CAWF020B §
	30 m	R88A-CAWF030S	R88A-CAWF030B §
	40 m	R88A-CAWF040S	R88A-CAWF040B §
	50 m	R88A-CAWF050S	R88A-CAWF050B §

§ For these motors with brake, a cable for power is required in addition to the brake cable. (Example, for servo motor model R88M-W5K515T-BS2, order both R88A-CAWE015S power cable and R88A-CAWE015B brake cable.)

Note: For 15kW Cylindrical style servomotors (1,500 RPM) use cable AWG4 x 4C UL62, with max. length 50 m and connectors plug MS3108B32-17S with cable plug MS3102A32-17P.

## ② Encoder Cables

Applicable servo motors	Length	Model
30-W to 750-W Cylindrical-style motors (3,000 RPM) 100-W to 1.5-kW Flat style Motors (3,000 RPM)	3 m	R88A-CRWA003C
	5 m	R88A-CRWA005C
	10 m	R88A-CRWA010C
	15 m	R88A-CRWA015C
	20 m	R88A-CRWA020C
	30 m	R88A-CRWA030C
	40 m	R88A-CRWA040C
	50 m	R88A-CRWA050C
1-kW to 5-kW Cylindrical-style motors (3,000 RPM) 300-W to 5.5-kW Cylindrical-style motors (1,000 RPM) 450-W to 15.0-kW Cylindrical-style motors (1,500 RPM)	3 m	R88A-CRWB003N
	5 m	R88A-CRWB005N
	10 m	R88A-CRWB010N
	15 m	R88A-CRWB015N
	20 m	R88A-CRWB020N
	30 m	R88A-CRWB030N
	40 m	R88A-CRWB040N
	50 m	R88A-CRWB050N

## Cables and Accessories

Application	Description	Length	Model
③ Cables for Motion Control modules	Control cables for 1 axis (common to CS1, C200H, and CV-Series Controllers)	1 m	R88A-CPW001M1
		2 m	R88A-CPW002M1
		3 m	R88A-CPW003M1
		5 m	R88A-CPW005M1
	Control cables for 2 axes (common to SYSMAC CS1, C200H, and CV-Series controllers)	1 m	R88A-CPW001M2
		2 m	R88A-CPW002M2
		3 m	R88A-CPW003M2
		5 m	R88A-CPW005M2
④ Servo relay units connect cables from PLC position controller and servo drive	1-axis Position Control Unit (CS1W-NC113/133, CJ1W-NC113/133); does not support communications functions	—	XW2B-20J6-1B
	2-axis Position Control Unit (CS1W-NC213/233/413/433, CJ1W-NC213/233/413/433); does not support communications functions	—	XW2B-40J6-2B
	1-axis CQM1H-PLB21 and CQM1-CPU43-V1; does not support communications functions	—	XW2B-20J6-3B
	1-axis CJ1M-CPU22/23; does not support communications functions	—	XW2B-20J6-8A
	2-axis CJ1M-CPU22/23; does not support communications functions	—	XW2B-40J6-9A
⑤ Servo drive connecting cable	Connects Servo Relay Units XW2B-20J6-1B, XW2B-40J6-2B, XW2B-20J6-3B, XW2B-20J6-8A, or XW2B-40J6-9A	1 m	XW2Z-100J-B4
		2 m	XW2Z-200J-B4
	Connects Servo Relay Unit XW2B-40J6-4A	1 m	XW2Z-100J-B8
		2 m	XW2Z-200J-B8
⑥ Position controller PLC module cable	CQM1H-PLB21 and CQM1-CPU43-V1 to XW2B-20J6-3B servo relay unit	1 m	XW2Z-100J-A3
	CJ1W-NC113 to XW2B-20J6-1B servo relay unit	1 m	XW2Z-100J-A16
	CJ1W-NC213 or CJ1W-NC413 to XW2B-20J6-2B servo relay unit	1 m	XW2Z-100J-A17
	CJ1W-NC133 to XW2B-20J6-1B servo relay unit	1 m	XW2Z-100J-A20
	CJ1W-NC233 or CJ1W-NC433 to XW2B-40J6-2B servo relay unit	1 m	XW2Z-100J-A21
	CJ1M-CPU22 or CJ1M-CPU23 to XW2B-20J6-8A (1 axis) or XW2B-40J6-9A (2 axes) servo relay unit	1 m	XW2Z-100J-A26
	CS1W-NC113 to XW2B-20J6-1B servo relay unit	1 m	XW2Z-100J-A8
	CS1W-NC213 or CS1W-NC413 to XW2B-40J6-2B servo relay unit	1 m	XW2Z-100J-A9
	CS1W-NC133 to XW2B-20J6-B1 servo relay unit	1 m	XW2Z-100J-A12
CS1W-NC233 or CS1W-NC433 to XW2B-40J6-2B servo relay unit	1 m	XW2Z-100J-A13	
⑦ General purpose controller cables	Control cables with connector at one end	1 m	R88A-CPW001S
		2 m	R88A-CPW002S

## Cables and Accessories (Continued)

Application	Description	Length	Model
⑧ Universal terminal block cable	Cables for universal terminal block XW2B-50G5	1 m	R88A-CTW001N
		2 m	R88A-CTW002N
	Control I/O connector; fits port CN1 (WT-series only)	—	R88A-CNU11C
	Control I/O connector; fits port CN1 (WN-series only)	—	R88A-CNW01C
	Universal terminal block	—	XW2B-50G5
	Cable from relay terminal block XW2B-20G4/XW2B-20G5/XW2D-20G6 to WN-series servo drive CN1	1 m	XW2Z-100J-B16
		2 m	XW2Z-200J-B16
	Cable from relay terminal block XW2B-20G4/XW2B-20G5/XW2D-20G6 to WT-series servo drive CN1	1 m	XW2Z-100J-B15
	2 m	XW2Z-200J-B15	
⑨ Battery backup	Servo drives R88D-WT50H or less	—	R88A-BAT01W
	Servo drives R88D-WT60H/75H/150H	—	R88A-BAT02W
	Servo drives R88D-WN, all models (connected in series with encoder cables in ②)	0.3 m	R88A-CRWC0R3C
⑩ Analog monitor cable	Peripheral cable for analog monitoring; servo drive to PC; connects to port CN4	1 m	R88A-CMW001S
⑪ Parameter unit	Panel mount unit sets and displays servo drive parameters; includes cable	1 m	R88A-PR02W
⑫ Personal computer cable	Connects a personal computer for monitoring; servo drive to PC; connects to port CN3	2 m	R88A-CCW002P2

## External Regenerative Resistors

Rating	Model
220 W 47 Ω	R88A-RR22047S
880 W 6.25 Ω	R88A-RR88006*

\* Resistor required for use with Servo Driver models R88D-WT60H/WT75H/WT150H.

## DC Reactors

Applicable servo drive	Model
For R88D-WT30H	R88A-PX5059
For R88D-WT15H/WT20H	R88A-PX5060
For R88D-WT05H/WT08H/WT10H	R88A-PX5061
For R88D-WT02HL	R88A-PX5062
For R88D-WTA3HL/WTA5HL/WT01HL	R88A-PX5063
For R88D-WT50H	R88A-PX5068
For R88D-WT04H	R88A-PX5069
For R88D-WT02H	R88A-PX5070
For R88D-WTA3H/WTA5H/WT01H	R88A-PX5071

## AC Reactors

Applicable servo drive	Model
For R88D-WTA3HL to WT01HL/WD30H to WD02H	R88A-F1W104-E
For R88D-WT02HL/WT04H	R88A-F1W107-E
For R88D-WT05H/WT08H	R88A-F1W115-E
For R88D-WT10H	R88A-F1W125-E
For R88D-WT15H/WT20H	LF-315K
For R88D-WT30H	LF-325K
For R88D-WT50H	LF-335K
For R88D-WT60H	LF-380K

## Network Communication Adapters

**DeviceNet Option Unit** mounts to a W-Series AC Servo drives and performs both DeviceNet communications functions and Position Control Unit functions. Parameters can be set, the operating status can be monitored, and faults can be predicted from a PLC up to 500 m away.

- **Trace Function:** When trigger conditions are satisfied, up to two analog elements and two ON/OFF elements can be recorded in the DeviceNet Option Unit and read from the PLC.
- **Monitor Item Reading Function:** The contents of AC Servo drive monitor display can be read from the PLC.
- **Batch Handling of Operating Information** for Servo Systems Information that can be displayed at W-series AC Servo Drivers using monitor functions (e.g., speed commands and speed feedback) can be read by a PLC using remote I/O functions.

Description	Model
DeviceNet Option Unit	R88A-NCW152-DRT
External I/O Connector	R88A-CNU01R
Cable for Setup Tool (IBM PC/AT or compatible; 2 m length)	R88A-CCW002P4

## MECHATROLINK-II Interface Unit for WT-Series Drives

Description	Cable length	Model
MECHATROLINK-II Interface Unit	—	FNY-NS115
MECHATROLINK-II cable	0.5 m	FNY-W6003-A5
	1 m	FNY-W6003-01
	3 m	FNY-W6003-03
	5 m	FNY-W6003-05
	10 m	FNY-W6003-10
	20 m	FNY-W6003-20
	30 m	FNY-W6003-30
MECHATROLINK-II terminating resistor	—	FNY-W6022