

# Industrial Automation Guide 2016



Industrial Products & Systems

[industrial.omron.eu](http://industrial.omron.eu)

# Targeted Technologies

## Creating maximum output with minimum input

By identifying the many ways of innovation in specific industries we developed the 'targeted technologies' concept. It's a way of thinking about technology in a prioritized format. Prioritized according to our customers' most pressing needs. The result? A set of solutions that make immediate impact on the core of our customers' businesses. A set of solutions that hit the target every time. Take a look at the examples on our website.

[industrial.omron.eu/technologies](https://industrial.omron.eu/technologies)







# Welcome to our world

## Our best-in-class devices for your automation system

Welcome to Omron's world of advanced industrial automation. The INDUSTRIAL AUTOMATION GUIDE is your essential tool to select best-in-class devices for your automation system. It highlights our core competences in sensing, control, visualisation, motion and panel components.

Of course, Omron offers a much larger range of products than you can find on the attached DVD. For more information on services and company competence visit our website.

Here you will find:

- Latest product news
- Technical product specifications
- 2D / 3D CAD Library
- Customer references
- Technology concepts
- Supporting product documentation
- Knowledge Base - "myOmron"
- Events Calendar
- Contact information

## Find information fast!

Quick Links shortens your search. Quick Links are unique codes assigned to Omron products listed in this guide. Enter Quick Link codes in the search box on [industrial.omron.eu](http://industrial.omron.eu) to access detailed information on products in this guide.



# Industrial Automation Guide 2016

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“To the machine the work of the machine,  
to man the thrill of further creation.”

Kazuma Tateisi, founder of Omron

# Omron at a glance

200.000 products ranging  
input, logic and output

Sensing, Control Systems, Visualization, Drives, Robots, Safety,  
Quality Control & Inspection, Control and Switching Components

7%

Investment in Research & Development

Innovation track  
record of 80 years

Top 150 global patent assignee

1.200 employees dedicated to R&D

11.000 + issued and pending patents

37.000

Employees worldwide

210

Locations worldwide

22

Countries in EMEA

Working for the  
benefit of society



## Close to your needs

Technical training & seminars, technical support, Automation Technology Centers, online community (MyOmron), online catalogues and technical documentation, customer service & sales support, inter-operability labs (Tsunagi), safety services, repairs.

# Your needs, our focus

## Solutions perfectly matching your needs

We asked ourselves: 'What do you need in sensors and components?' Well, first you need reliability. Then a variety and choice of performance levels. You may also want advanced functionality, with special features defined by you – or you may want standardized solutions, with highly competitive prices.

Whatever it is, it can all add up to a wish list that is difficult to fulfil. Until now. That's because our new 361° Approach not only provides a complete all-round offer without gaps, it also puts you at the very centre of the product selection process. It's an approach that leads to a Perfect Match – one with the extra degree of confidence that comes from choosing Omron.

### 361° in one view



Quality



Line-up



Application



Customization



Global availability



Specs

	Quality	Line-up	Application	Customization	Global availability	Specs
<b>PRO<sup>plus</sup></b>	Premium	Tailored	Special	Yes	Yes	Application oriented
<b>PRO</b>	Premium	Complete	Advanced	Yes	Yes	Above Standard
<b>LITE</b>	Premium	Standard	Basic	No	No	Basic
	'Quality' refers to the standard of manufacturing and the materials used – this translates into reliability	'Line-up' refers to the number of model types	'Application' indicates the complexity of the automation	'Customization' is the possibility to modify the product		'Specs' refers to the choice of performance levels



# The extra degree of advantage

## Three distinct lines of sensors and components

### Three distinct lines

361° Approach offers three distinct lines within each sensor or component product category. LITE products are cost-effective without any compromise in quality. PRO products represent the “install & forget” option, offering longer lifetime, higher protection, and more features. While PROplus products are designed for specific applications or customer demands.

### Optimized reliability

All three lines are backed by the Omron commitment to quality, so even when you need a price-competitive advantage, you can be confident that they will never let you down.

### Solutions that perfectly match your needs

The 361° Approach ensures that you can quickly and easily identify the perfect match solution to your needs – nothing more, nothing less.

### Optimized costs

Your sensor and component costs are also minimized – because it eliminates over-specification.

### Why an extra 1°?

The extra degree is what you get when you do business with Omron, and that means different things to different customers – all depending on their needs. For example, if you need specification advice, the extra degree is ‘service’. But ultimately, to everyone it means “an extra degree of confidence in the perfect match”.



# Sysmac: A fully integrated platform

## Integration and Functionality

Sysmac is an integrated automation platform dedicated to providing complete control and management of your automation plant. At the core of this platform, the Machine Controller series offers synchronous control of all machine devices and advanced functionality such as motion, robotics and database connectivity. This multidisciplinary concept allows you to simplify solution architecture, reduce programming and optimize productivity.



FACTORY  
AUTOMATION

MACHINE  
CONTROL

Machine Automation Controller



Motion



Filling line

- Motion Control: Integrated within the IDE, and operating in real-time
- Standard PLCopen Function Blocks plus Omron generated motion FB's
- Direct Synchronous control for Position, Speed and Torque



Safety



Assembly

- All safety related data is synchronized with the whole network
- Safety functions such as muting, guard locking, EDM and valve monitoring are simple to manage

- ✓ **One Integrated Development Environment software** for Configuration, Programming, Simulation and Monitoring



## Information



- Sysmac communicates in real-time with Databases such as SQL
- Secure Data: In the event of a server going down or losing communications, data is automatically stored in internal memory
- Sysmac operates with Databases at high speed [1000 table element/ 100 ms] ensuring realistic Big Data Processing to improve productivity and aid predictive maintenance etc.

### ✓ Integrated Automation Control:

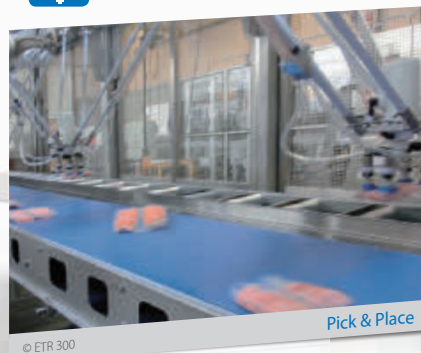
The Sysmac platform is scalable and provides the performance and functionality for a wide range of solutions from simple machines through to manufacturing cells

## Vision



- Higher resolution images available without increasing the vision processing time
- Shape search technology: Provides more stable and accurate object detection for Pick & Place projects

## Robotics



- Up to 8 Delta robots with one controller
- Time-based Robotic Function Blocks make programming easier

## Sensing



- Full control of the process parameter setting and predictive maintenance functions
- High precision detection and positioning data synchronized on the network

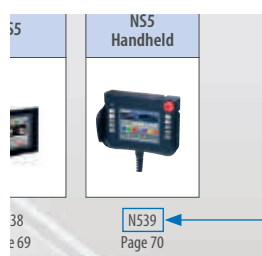
# Product selection table

Automation systems				
	12 Machine automation controller	26 Programmable logic controllers (PLC)	54 Remote I/O	68 Human machine interfaces (HMI)
				
	96 Motion controllers	112 Servo systems	170 Robots	202 Frequency inverters
Sensing				
	236 Photoelectric sensors	278 Mark and Color sensors	284 Lightcurtains and area sensors	292 Fiber optic sensors and amplifiers
				
	370 Inspection & Ident systems	426 Measurement sensors		
Safety				
	462 Emergency stop and control devices	472 Safety limit switches	480 Safety door switches	506 Safety sensors
				
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Switching components				
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Software				

# Automation systems

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*Quick Link*








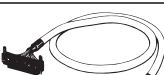




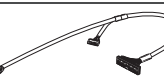




# Automation systems

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## Ordering information

## I/O cables

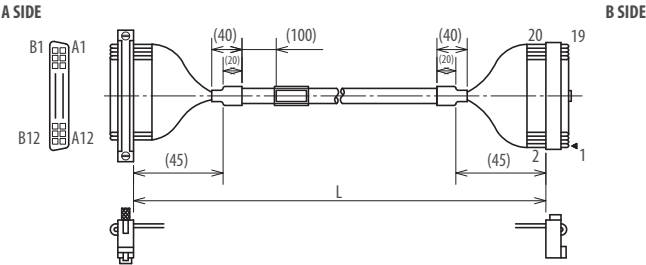
Shape	PLC connection	Terminal connection	Length in cm										Wiring	Order code
			30	50	75	100	150	200	250	300	400	500		
	FCN24	MIL20	—	■	—	■	—	■	—	■	—	—	Straight	XW2Z-[...]AD-L
		Open ends	—	—	—	■	—	■	—	■	—	—	n. a.	XW2Z-[...]AL-L
	FCN40	MIL20 × 2	—	—	—	■	■	■	—	■	■	■	Straight	XW2Z-[...]BH-L01
													Reverse	XW2Z-[...]BH-L02
		MIL40	—	■	—	■	■	■	—	■	—	■	Straight	XW2Z-[...]BF-L
		Open ends	—	—	—	■	—	■	—	■	—	■	n. a.	XW2Z-[...]BN-L
	FCN56	MIL20 × 3	—	—	—	—	■	■	—	■	—	—	Straight	XW2Z-[...]CJ-L01
													Reverse	XW2Z-[...]CJ-L02
		MIL20 + MIL40	—	—	—	—	■	■	—	—	—	—	Straight	XW2Z-[...]CK-L01
													Reverse	XW2Z-[...]CK-L02
		MIL60	—	—	—	■	—	■	—	■	—	—	Straight	XW2Z-[...]CG-L
	MIL20	MIL20	—	■	—	■	—	■	—	—	—	—	Straight	XW2Z-[...]DD-L
		Open ends	—	■	—	■	■	■	—	■	—	■	n. a.	XW2Z-[...]DL-L
		Fork terminals	—	■	—	■	■	■	—	■	—	■	n. a.	XW2Z-[...]DM-L
	MIL34	MIL34	—	—	—	—	—	■	—	—	—	—	Straight	XW2Z-[...]EE-L
	MIL40	MIL20 × 2	—	—	■	■	—	■	—	■	—	■	Reverse	XW2Z-[...]FH-L01
													Straight	XW2Z-[...]FH-L02
		MIL40	■	■	—	■	■	■	—	■	—	■	Straight	XW2Z-[...]FF-L
		Open ends	—	—	—	■	■	■	■	■	—	■	n. a.	XW2Z-[...]FN-L

Note: For [...] fill in the 4-digit length in cm

I/O cables XW2Z

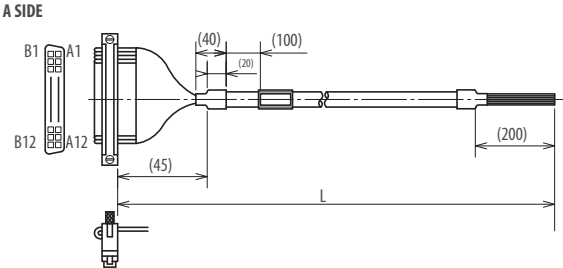
XW2Z-\_AD-L

PLC connection	Terminal connection	Wiring	Length in cm (L)										Order code
			30	50	75	100	150	200	250	300	400	500	
24-pin FCN Connector	20-pin MIL Connector	Straight	-	■	-	-	-	-	-	-	-	-	XW2Z-0050AD-L
			-	-	-	■	-	-	-	-	-	-	XW2Z-0100AD-L
			-	-	-	-	-	■	-	-	-	-	XW2Z-0200AD-L
			-	-	-	-	-	-	-	■	-	-	XW2Z-0300AD-L



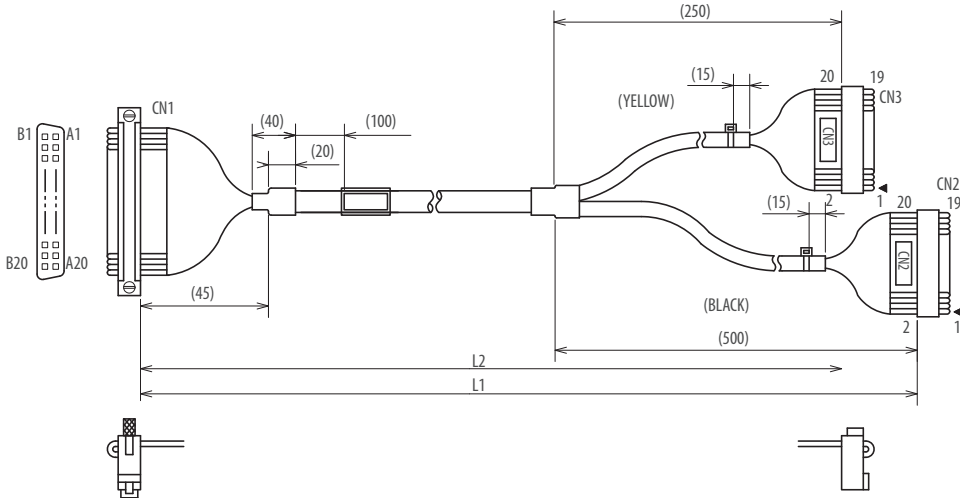
XW2Z-\_AL-L

PLC connection	Terminal connection	Wiring	Length in cm (L)										Order code
			30	50	75	100	150	200	250	300	400	500	
24-pin FCN	Loose Wires	Straight	-	-	-	■	-	-	-	-	-	-	XW2Z-0100AL-L
			-	-	-	-	-	■	-	-	-	-	XW2Z-0200AL-L
			-	-	-	-	-	-	-	■	-	-	XW2Z-0300AL-L



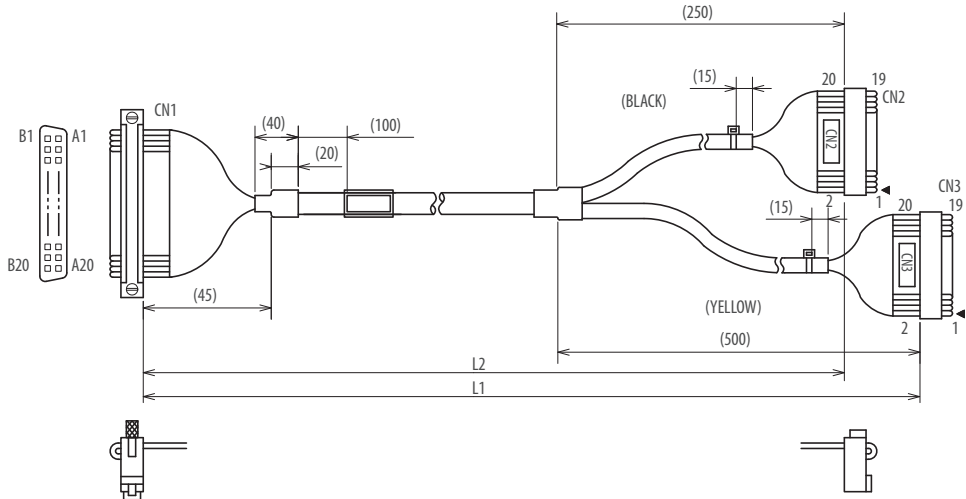
XW2Z-\_BH-L01

PLC connection	Terminal connection	Wiring	Length in cm (L1)						Length in cm (L2)						Order code
			100	150	200	300	400	500	75	125	175	275	375	475	
40-pin FCN	Two 20-pin MIL	Straight	■	-	-	-	-	-	■	-	-	-	-	-	XW2Z-0100BH-L01
			-	■	-	-	-	-	-	■	-	-	-	-	XW2Z-0150BH-L01
			-	-	■	-	-	-	-	-	■	-	-	-	XW2Z-0200BH-L01
			-	-	-	■	-	-	-	-	-	■	-	-	XW2Z-0300BH-L01
			-	-	-	-	■	-	-	-	-	-	■	-	XW2Z-0400BH-L01
			-	-	-	-	-	■	-	-	-	-	-	■	XW2Z-0500BH-L01



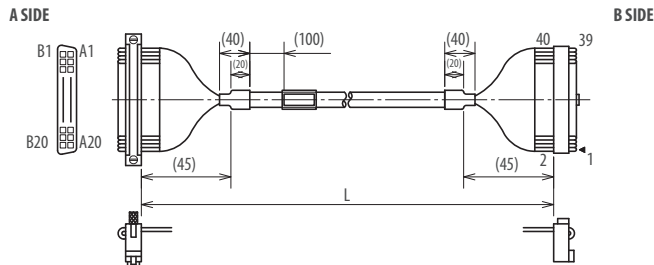
XW2Z-\_BH-L02

PLC connection	Terminal connection	Wiring	Length in cm (L1)						Length in cm (L2)						Order code
			100	150	200	300	400	500	75	125	175	275	375	475	
40-pin FCN	Two 20-pin MIL	Reverse	■	—	—	—	—	—	■	—	—	—	—	—	XW2Z-0100BH-L02
			—	■	—	—	—	—	—	■	—	—	—	—	XW2Z-0150BH-L02
			—	—	■	—	—	—	—	—	■	—	—	—	XW2Z-0200BH-L02
			—	—	—	■	—	—	—	—	—	■	—	—	XW2Z-0300BH-L02
			—	—	—	—	■	—	—	—	—	—	■	—	XW2Z-0400BH-L02
			—	—	—	—	—	■	—	—	—	—	—	■	XW2Z-0500BH-L02



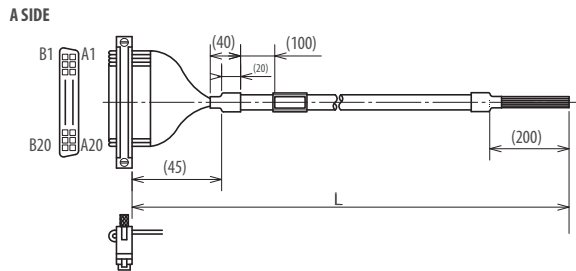
XW2Z-\_BF-L

PLC connection	Terminal connection	Wiring	Length in cm (L)								Order code
			30	50	75	100	150	200	250	300	
40-pin FCN	40-pin MIL	Straight	—	■	—	—	—	—	—	—	XW2Z-0050BF-L
			—	—	—	■	—	—	—	—	XW2Z-0100BF-L
			—	—	—	—	■	—	—	—	XW2Z-0150BF-L
			—	—	—	—	—	■	—	—	XW2Z-0200BF-L
			—	—	—	—	—	—	■	—	XW2Z-0300BF-L
			—	—	—	—	—	—	—	■	XW2Z-0500BF-L



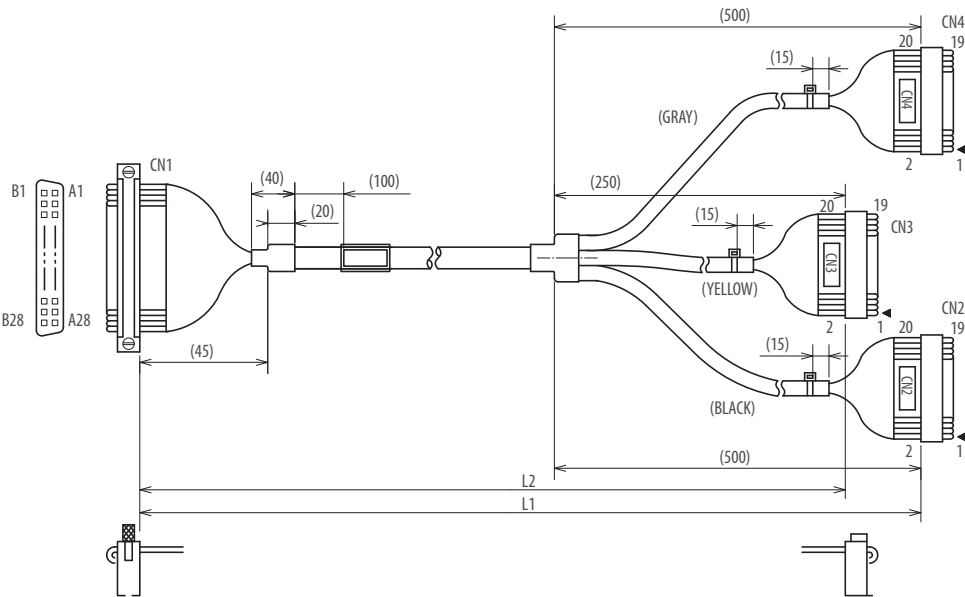
XW2Z-\_BN-L

PLC connection	Terminal connection	Wiring	Length in cm (L)								Order code
			30	50	75	100	150	200	250	300	
40-pin FCN	Loose Wires	Straight	—	—	—	■	—	—	—	—	XW2Z-0100BN-L
			—	—	—	—	■	—	—	—	XW2Z-0200BN-L
			—	—	—	—	—	■	—	—	XW2Z-0300BN-L
			—	—	—	—	—	—	■	—	XW2Z-0500BN-L



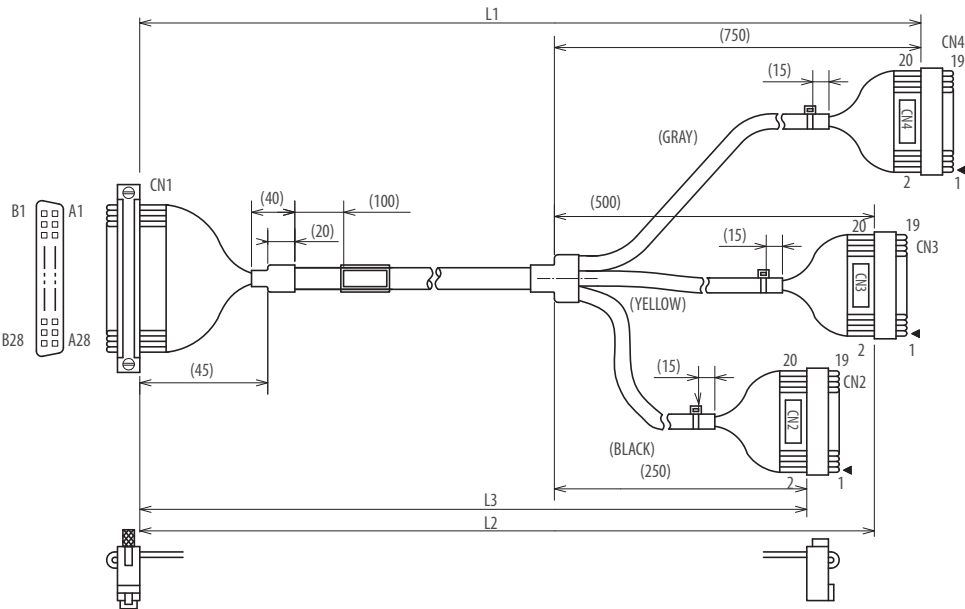
XW2Z- \_CJ-L01

PLC connection	Terminal connection	Wiring	Length in cm (L1)						Length in cm (L2)						Order code
			100	150	200	300	400	500	75	125	175	275	375	475	
56-pin FCN	Three 20-pin MIL	Straight	-	■	-	-	-	-	-	■	-	-	-	-	XW2Z-0150CJ-L01
			-	-	■	-	-	-	-	-	■	-	-	-	XW2Z-0200CJ-L01
			-	-	-	■	-	-	-	-	-	■	-	-	XW2Z-0300CJ-L01



XW2Z- \_CJ-L02

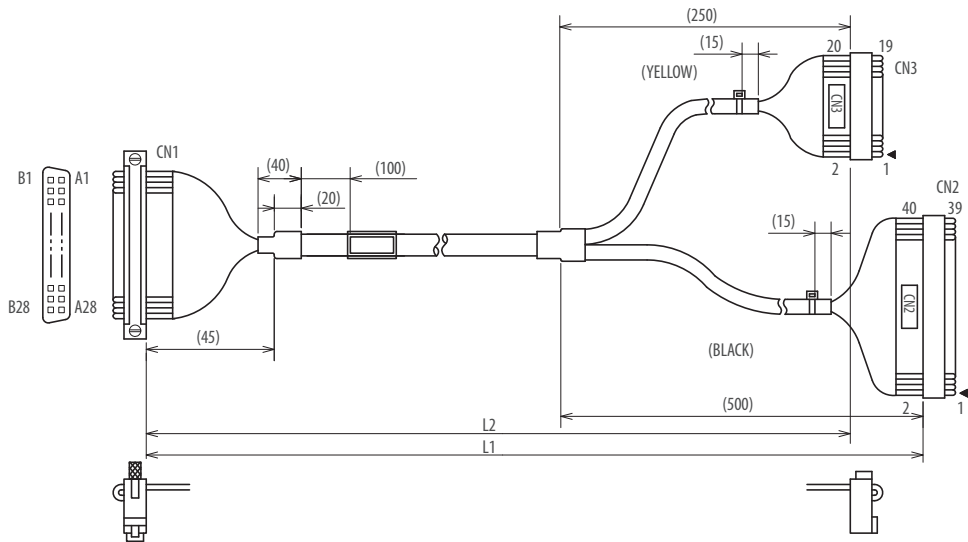
PLC connection	Terminal connection	Wiring	Length in cm (L1)						Length in cm (L2)						Length in cm (L3)					Order code
			100	150	200	300	400	500	75	125	175	275	375	475	50	100	150	250	300	
56-pin FCN	Three 20-pin MIL	Reverse	-	■	-	-	-	-	-	■	-	-	-	-	-	■	-	-	-	XW2Z-0150CJ-L02
			-	-	■	-	-	-	-	-	■	-	-	-	-	-	■	-	-	XW2Z-0200CJ-L02
			-	-	-	■	-	-	-	-	-	■	-	-	-	-	-	■	-	XW2Z-0300CJ-L02





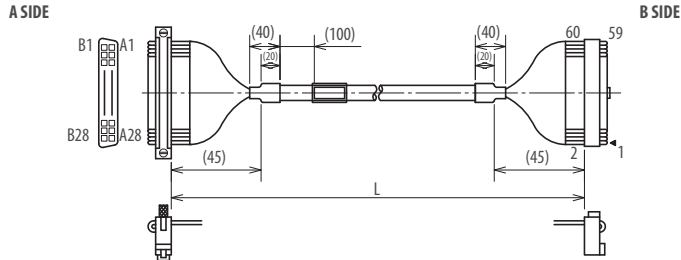
XW2Z-CK-L0\_

PLC connection	Terminal connection	Wiring	Length in cm (L1)						Length in cm (L2)						Order code
			100	150	200	300	400	500	75	125	175	275	375	475	
56-pin	40-pin MIL	Straight	-	■	-	-	-	-	-	■	-	-	-	-	XW2Z-0150CK-L01
		Reverse	-	■	-	-	-	-	-	■	-	-	-	-	XW2Z-0150CK-L02
		Straight	-	-	■	-	-	-	-	-	■	-	-	-	XW2Z-0200CK-L01
		Reverse	-	-	■	-	-	-	-	-	■	-	-	-	XW2Z-0200CK-L02



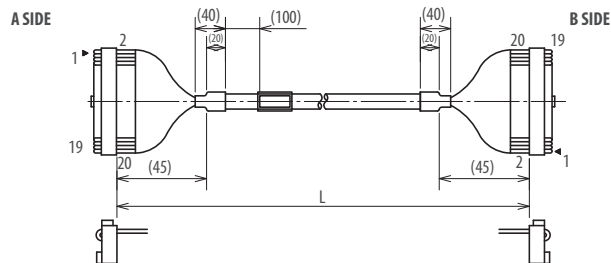
XW2Z-CG-L

PLC connection	Terminal connection	Wiring	Length in cm (L)								Order code
			30	50	75	100	150	200	250	300	
56-pin FCN	60-pin MIL	Straight	-	-	-	■	-	-	-	-	XW2Z-0100CG-L
			-	-	-	-	■	-	-	-	XW2Z-0200CG-L
			-	-	-	-	-	■	-	-	XW2Z-0300CG-L



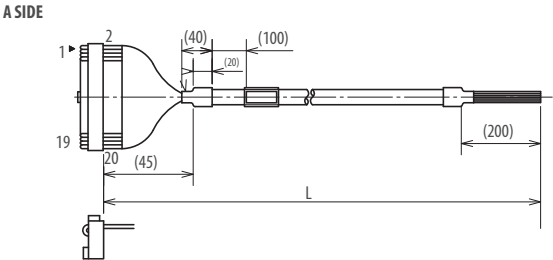
XW2Z-DD-L

PLC connection	Terminal connection	Wiring	Length in cm (L)								Order code
			30	50	75	100	150	200	250	300	
20-pin MIL	20-pin MIL	Straight	-	■	-	-	-	-	-	-	XW2Z-0050DD-L
			-	-	■	-	-	-	-	-	XW2Z-0100DD-L
			-	-	-	-	■	-	-	-	XW2Z-0200DD-L



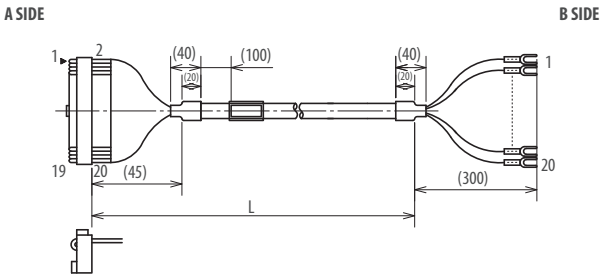
XW2Z-\_DL-L

PLC connection	Terminal connection	Wiring	Length in cm (L1)										Order code
			30	50	75	100	150	200	250	300	400	500	
20-pin MIL	Loose Wires	Straight	—	■	—	—	—	—	—	—	—	—	XW2Z-0050DL-L
			—	—	—	■	—	—	—	—	—	—	XW2Z-0100DL-L
			—	—	—	—	■	—	—	—	—	—	XW2Z-0150DL-L
			—	—	—	—	—	■	—	—	—	—	XW2Z-0200DL-L
			—	—	—	—	—	—	■	—	—	—	XW2Z-0300DL-L
			—	—	—	—	—	—	—	■	—	■	XW2Z-0500DL-L



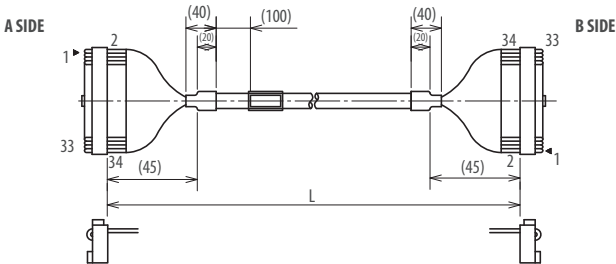
XW2Z-\_DM-L

PLC connection	Terminal connection	Wiring	Length in cm (L1)										Order code
			30	50	75	100	150	200	250	300	400	500	
20-pin MIL	Loose Wires with Fork Terminals	Straight	—	■	—	—	—	—	—	—	—	—	XW2Z-0050DM-L
			—	—	—	■	—	—	—	—	—	—	XW2Z-0100DM-L
			—	—	—	—	■	—	—	—	—	—	XW2Z-0150DM-L
			—	—	—	—	—	■	—	—	—	—	XW2Z-0200DM-L
			—	—	—	—	—	—	■	—	—	—	XW2Z-0300DM-L
			—	—	—	—	—	—	—	■	—	■	XW2Z-0500DM-L



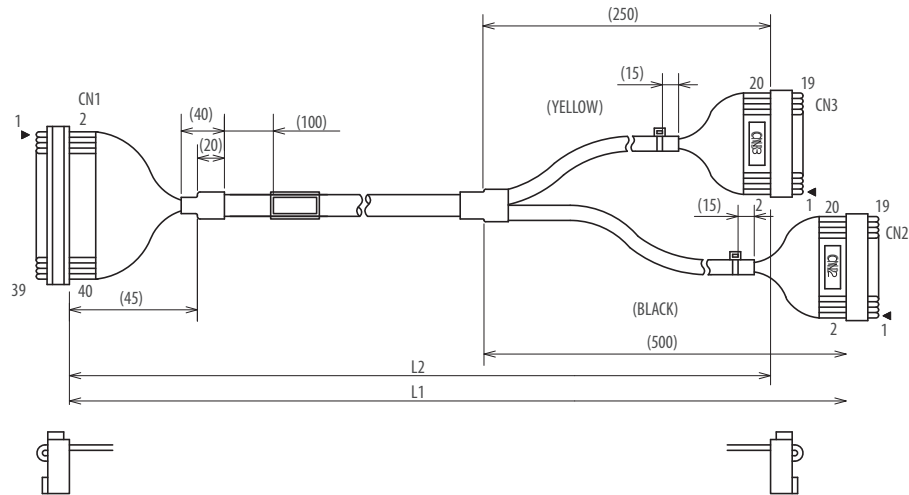
XW2Z-0200EE-L

PLC connection	Terminal connection	Wiring	Length in cm (L1)										Order code
			30	50	75	100	150	200	250	300	400	500	
34-pin MIL	34-pin MIL	Straight	—	—	—	—	—	■	—	—	—	—	XW2Z-0200EE-L



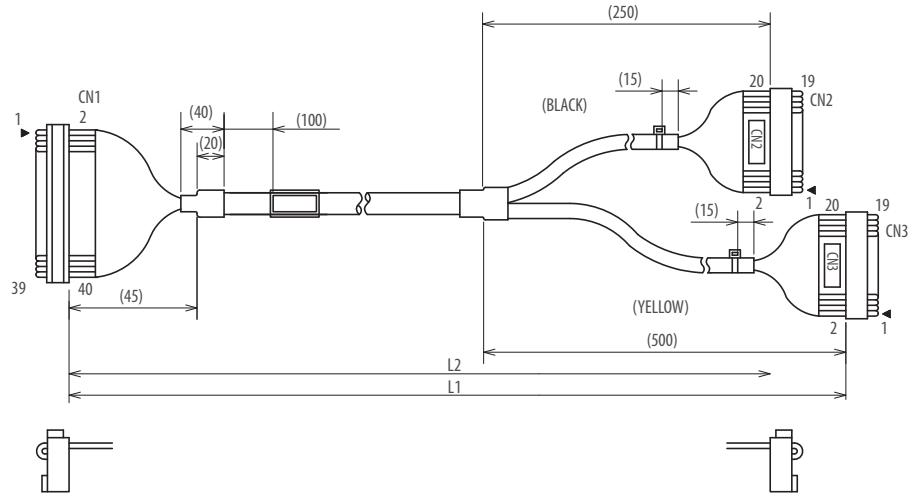
XW2Z-\_FH-L01

PLC connection	Terminal connection	Wiring	Length in cm (L1)						Length in cm (L2)						Order code
			75	100	200	300	400	500	50	75	175	275	375	475	
40-pin MIL	Two 20-pin MIL	Reverse	■	—	—	—	—	—	■	—	—	—	—	—	XW2Z-0075FH-L01
			—	■	—	—	—	—	—	■	—	—	—	—	XW2Z-0100FH-L01
			—	—	■	—	—	—	—	—	■	—	—	—	XW2Z-0200FH-L01
			—	—	—	■	—	—	—	—	—	■	—	—	XW2Z-0300FH-L01
			—	—	—	—	—	■	—	—	—	—	—	■	XW2Z-0500FH-L01



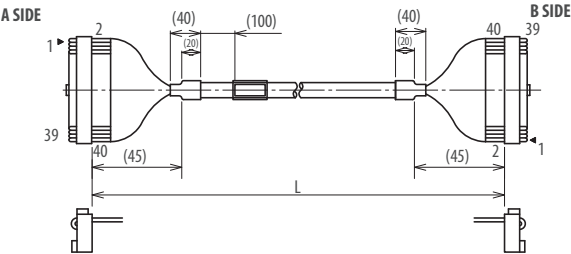
XW2Z-\_FH-L02

PLC connection	Terminal connection	Wiring	Length in cm (L1)						Length in cm (L2)						Order code
			75	100	200	300	400	500	50	75	175	275	375	475	
40-pin MIL	Two 20-pin MIL	Straight	■	—	—	—	—	—	■	—	—	—	—	—	XW2Z-0075FH-L02
			—	■	—	—	—	—	—	■	—	—	—	—	XW2Z-0100FH-L02
			—	—	■	—	—	—	—	—	■	—	—	—	XW2Z-0200FH-L02
			—	—	—	■	—	—	—	—	—	■	—	—	XW2Z-0300FH-L02
			—	—	—	—	—	■	—	—	—	—	—	■	XW2Z-0500FH-L02



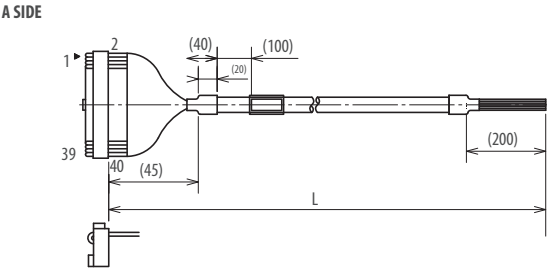
XW2Z-\_FF-L

PLC connection	Terminal connection	Wiring	Length in cm (L1)										Order code
			30	50	75	100	150	200	250	300	400	500	
40-pin MIL	40-pin MIL	Straight	■		—	—	—	—	—	—	—	—	XW2Z-0030FF-L
			—	■	—	—	—	—	—	—	—	—	XW2Z-0050FF-L
			—	—	—	■	—	—	—	—	—	—	XW2Z-0100FF-L
			—	—	—	—	■	—	—	—	—	—	XW2Z-0150FF-L
			—	—	—	—	—	■	—	—	—	—	XW2Z-0200FF-L
			—	—	—	—	—	—	■	—	—	—	XW2Z-0300FF-L
			—	—	—	—	—	—	—	■	—	■	XW2Z-0500FF-L






XW2Z-\_FN-L

PLC connection	Terminal connection	Wiring	Length in cm (L1)										Order code
			30	50	75	100	150	200	250	300	400	500	
40-pin MIL	Loose Wires	Straight	—	—	—	■	—	—	—	—	—	—	XW2Z-0100FN-L
			—	—	—	—	■	—	—	—	—	—	XW2Z-0150FN-L
			—	—	—	—	—	■	—	—	—	—	XW2Z-0200FN-L
			—	—	—	—	—	—	■	—	—	—	XW2Z-0250FN-L
			—	—	—	—	—	—	—	■	—	—	XW2Z-0300FN-L
			—	—	—	—	—	—	—	—	■	■	XW2Z-0500FN-L






## I/O terminal blocks

## General purpose I/O terminals





Shape	Connection type	Number of points	Order code
	Push-in	20 pt	XW2R-P20G-T
		34 pt	XW2R-P34G-T
		40 pt	XW2R-P40G-T
		50 pt	XW2R-P50G-T
		60 pt	XW2R-P60G-T
	Clamp	20 pt	XW2R-E20G-T
		34 pt	XW2R-E34G-T
		40 pt	XW2R-E40G-T
		50 pt	XW2R-E50G-T
		60 pt	XW2R-E60G-T
	Screw	20 pt	XW2R-J20G-T
		34 pt	XW2R-J34G-T
		40 pt	XW2R-J40G-T
		50 pt	XW2R-J50G-T
		60 pt	XW2R-J60G-T

## Omron PLC I/O terminals

Shape	Connection type	I/O unit type	Order code
	Push-in	32 inputs Fujitsu (FCN)	XW2R-P34G-C1
		32 inputs MIL	XW2R-P34G-C2
		32 outputs Fujitsu (FCN)	XW2R-P34G-C3
		32 outputs MIL	XW2R-P34G-C4
	Clamp	32 inputs Fujitsu (FCN)	XW2R-E34G-C1
		32 inputs MIL	XW2R-E34G-C2
		32 outputs Fujitsu (FCN)	XW2R-E34G-C3
		32 outputs MIL	XW2R-E34G-C4
	Screw	32 inputs Fujitsu (FCN)	XW2R-J34G-C1
		32 inputs MIL	XW2R-J34G-C2
		32 outputs Fujitsu (FCN)	XW2R-J34G-C3
		32 outputs MIL	XW2R-J34G-C4








## Ethernet patch cables, standard RJ45 connectors

Shape	Connector 1	Connector 2	Material	Cable	Color	Length in cm												Order code
						20	30	50	100	150	200	300	500	750	1000	1500	2000	
	RJ45 std.	RJ45 std.	LSZH	Cat6a S/FTP 4 pairs	Blue	■	■	■	■	■	■	■	■	■	■	■	■	XS6W-6LSZH8SS[...]CM-B
	RJ45 std.	RJ45 std.	LSZH	Cat6a S/FTP 4 pairs	Yellow	■	■	■	■	■	■	■	■	■	■	■	■	XS6W-6LSZH8SS[...]CM-Y
	RJ45 std.	RJ45 std.	LSZH	Cat6a S/FTP 4 pairs	Green	■	■	■	■	■	■	■	■	■	■	■	■	XS6W-6LSZH8SS[...]CM-G
	RJ45 std.	RJ45 std.	PUR	Cat5e S/FTP 4 pairs	Green	—	—	■	■	■	■	■	■	■	■	■	■	XS6W-5PUR8SS[...]CM-G

Note: For [...] fill in the length in cm.

## Ethernet patch cables, RJ45/M12 connectors






Shape	Connector 1	Connector 2	Material	Cable	Color	Length in cm								Order code
						30	50	100	200	300	500	1000	1500	
	RJ45	RJ45	PVC	Cat5e Shielded Quad	Light Blue	A	B	C	D	E	G	J	K	XS5W-T421-[]JM2-K
	M12 straight	M12 straight	PVC	Cat5e Shielded Quad	Light Blue	—	B	C	D	E	G	J	K	XS5W-T421-[]JM2-K
	M12 straight	RJ45	PVC	Cat5e Shielded Quad	Light Blue	A	B	C	D	E	G	J	K	XS5W-T421-[]JMC-K
	M12 angled	M12 angled	PVC	Cat5e Shielded Quad	Light Blue	—	B	C	D	E	G	J	K	XS5W-T422-[]JM2-K
	M12 angled	RJ45	PVC	Cat5e Shielded Quad	Light Blue	A	B	C	D	E	G	J	K	XS5W-T422-[]JMC-K

Note: For [] fill in the 1-character length code.



## Specifications

Item	XS6W-6LSZH8SS_CM-	XS6W-5PUR8SS_CM-G
Rated current	1 A (at 50°C)	
Withstand voltage	1,000 VDC for 60 s (leakage current: 1 mA max.)	
Ambient operating temperature	–20 to 60°C	–40 to 85°C
Ambient storage temperature	–20 to 60°C	–40 to 85°C
Ambient installation temperature	0 to 50°C	–10 to 60°C
Protective structure	IP20	IP20



## Accessories

Type	Connector	Specification	Color	Length	Order code
Ethernet installation cable 	none	CAT 5, SF/UTP, 4 × 2 × AWG 24/1 (solid core), Polyurethane (PUR)	Green	100 m	WM IE-5IC4x2xAWG24/1-PUR
Ethernet installation cable 	none	CAT 5, SF/UTP, 4 × 2 × AWG 26/7 (stranded core), Polyurethane (PUR)		100 m	WM IE-5CC4x2xAWG26/7-PUR
Ethernet socket 	RJ45 socket	DIN-rail mount socket to terminate installation cable in the cabinet	Grey	60 × 17.5 × 67 mm	WM IE-TO-RJ45-FJ-B
Ethernet field-mount plugs 	Metal RJ45	for AWG22 to AWG26	Chrome	52 mm	WM IE-PS-RJ45-FH-BK
Ethernet field-mount plugs 	Plastic RJ45	for AWG22 to AWG24	Black	52 mm	XS6G-T421-1

## Industrial switching hubs

Shape	Functions	Ports	Failure detection	Power supply voltage	Order code
	Quality of Service (QoS): EtherNet/IP control data priority Failure detection: Broadcast storm and LSI error detection 10/100BASE-TX, Auto-negotiation	3	—	24.0 VDC±5%	W4S1-03B
		5			W4S1-05B
			■		W4S1-05C

## EtherCAT junction slave

Shape	Functions	Ports	Power supply voltage	Order code
	Creation of star- and tree topologies in EtherCAT networks. Distributed Clock (DC) is supported.	3	20.4 to 28.8 VDC (24 VDC –15% to 20%)	GX-JC03
		6		GX-JC06



Industrial Wireless LAN unit

WE70 utilises spread-spectrum modulation technology based on radio waves to enable communication between devices in a limited area. This gives users the mobility to move around within a broad coverage area and still be connected to the network. The smart roaming function enables high speed roaming therefore moving equipment and mobile objects can communicate reliably at high speed.

- Conforms to IEEE 802.11a/b/g.
- Same noise and environment resistance level as a PLC.
- Features Omron's original security system.
- Signals can be observed with LED indicators.
- Conforms to radio wave standards for the USA, Europe, and China.

Ordering information

Area	Type	Order code
Europe	Access Point (Master)	WE70-AP-EU
	Client (Slave)	WE70-CL-EU
USA	Access Point (Master)	WE70-AP-US
	Client (Slave)	WE70-CL-US
China	Access Point (Master)	WE70-AP-CN
	Client (Slave)	WE70-CL-CN

Accessories

Type	Specifications	Order code
Directional Magnetic-base Antenna	1 set with two Antennas, 2.4 GHz/5 GHz Dual-band compatible	WE70-AT001H

Type	Order code
DIN Rail Mounting Bracket (for TH35 7.5)	WT30-FT001
DIN Rail Mounting Bracket (for TH35 15)	WT30-FT002
Antenna Extension Cable (5 m)	WE70-CA5M

**Note:** For Ethernet Cables and Accessories, see page 91