

NO: LC-042 **PRODUCT:** F39-JC_A/B Series Cables
DATE: November 2014 **TYPE:** Discontinuation Notice

The F39-JC_A/B Series Safety Light Curtain Cables will be Discontinued Effective March 31, 2015

Omron Automation & Safety recommends that the F39-JC_A/B series Light Curtain cables be replaced by the F39-JD_A/B series as a functional replacement product.

Affected Parts



Product discontinuation	Recommended replacement
F39-JCR5A	Please contact Tech. Support about recommended replacement.
F39-JC3A	F39-JD3A
F39-JC3A-D	F39-JD3A-D
F39-JC3A-L	F39-JD3A-L
F39-JC7A	F39-JD7A
F39-JC7A-D	F39-JD7A-D
F39-JC7A-L	F39-JD7A-L
F39-JC10A	F39-JD10A
F39-JC10A-D	F39-JD10A-D
F39-JC10A-L	F39-JD10A-L
F39-JC15A	F39-JD15A
F39-JC15A-D	F39-JD15A-D
F39-JC15A-L	F39-JD15A-L
F39-JC20A	F39-JD20A
F39-JCR2B	Please contact Tech. Support about recommended replacement.
F39-JCR2B-D	Please contact Tech. Support about recommended replacement.
F39-JCR2B-L	Please contact Tech. Support about recommended replacement.
F39-JCR5B	F39-JDR5B
F39-JCR5B-D	F39-JDR5B-D
F39-JCR5B-L	F39-JDR5B-L
F39-JC1B	F39-JD1B
F39-JC1B-L	F39-JD1B-L
F39-JC3B	F39-JD3B
F39-JC3B-D	F39-JD3B-D
F39-JC3B-L	F39-JD3B-L
F39-JC5B	F39-JD5B
F39-JC5B-D	F39-JD5B-D
F39-JC5B-L	F39-JD5B-L
F39-JC7B	F39-JD7B
F39-JC7B-D	F39-JD7B-D

Product discontinuation	Recommended replacement
F39-JC7B-L	F39-JD7B-L
F39-JC10B	F39-JD10B
F39-JC10B-D	F39-JD10B-D
F39-JC10B-L	F39-JD10B-L
F39-JC15B	F39-JD15B
F39-JC15B-D	F39-JD15B-D
F39-JC15B-L	F39-JD15B-L
F39-JC20B	F39-JD20B
F39-JC30B	Please contact Tech. Support about recommended replacement.
F39-JC40B	Please contact Tech. Support about recommended replacement.

See the following pages for the differences between the discontinued series and the recommended replacement series.

Detail of Differences

Body Color

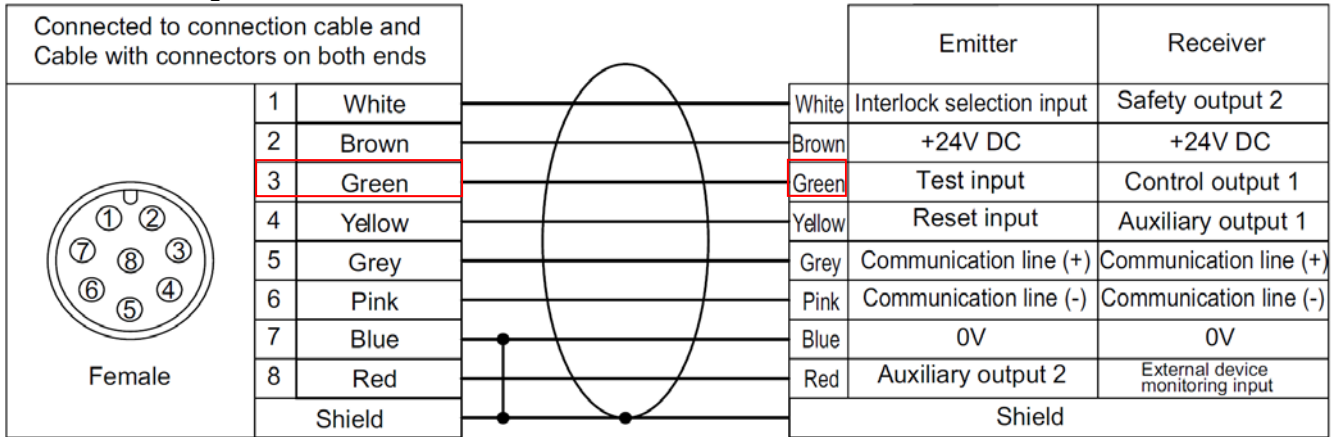
Product discontinuation Model F39-JC series	Recommended replacement Model F39-JD
<p>Connector finish is shiny. Cable color: Emitter: Gray Receiver: Black</p>  <p>Shiny finish</p> <p>Shiny finish</p>	<p>Connector finish is matte. Cable color: Emitter: Gray Receiver: Black</p>  <p>Matte finish</p> <p>Matte finish</p>

Wire Connection

Product discontinuation Model F39-JC series

F39-JC□A

The internal wiring color "Green" on Pin No. 3.

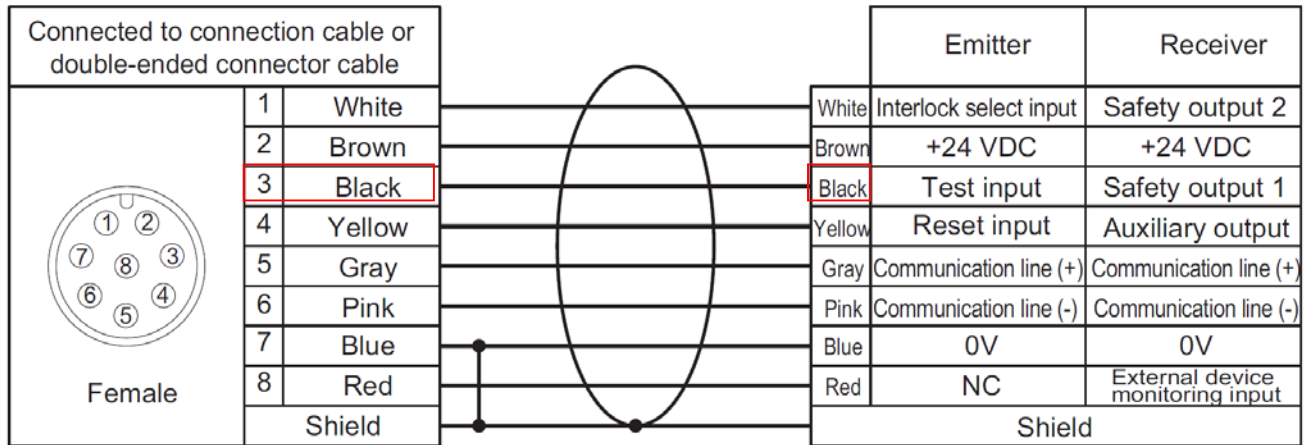


Twisted pair wires are white and red, brown and blue, green and yellow, and grey and pink

Recommended replacement Model F39-JD series

F39-JD□A

The internal wiring color "Black" on Pin No. 3.

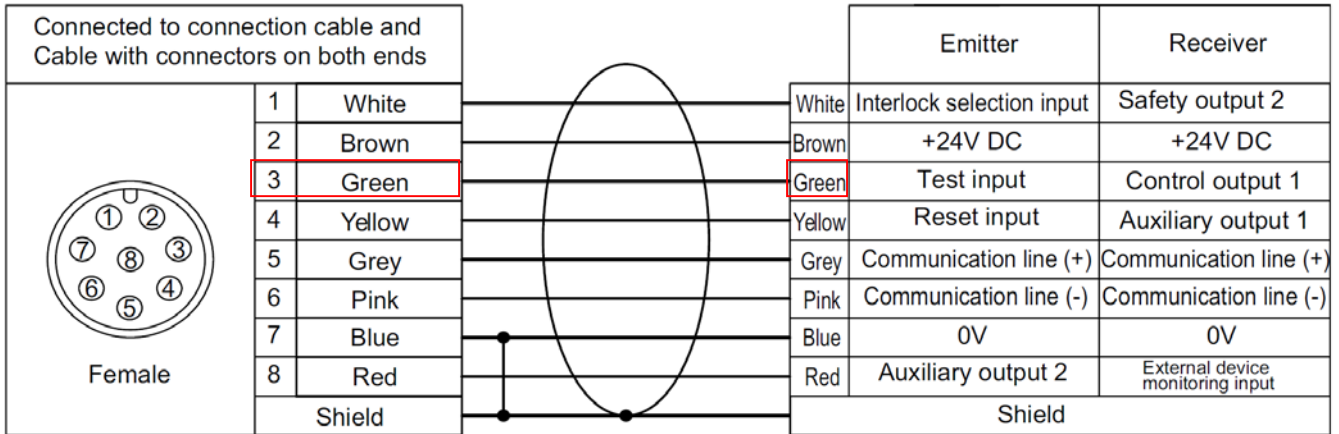


Twisted pair wires are white and red, brown and blue, black and yellow, and gray and pink

**Product discontinuation
Model F39-JC series**

F39-JC□B

The internal wiring color "Green" on Pin No. 3.

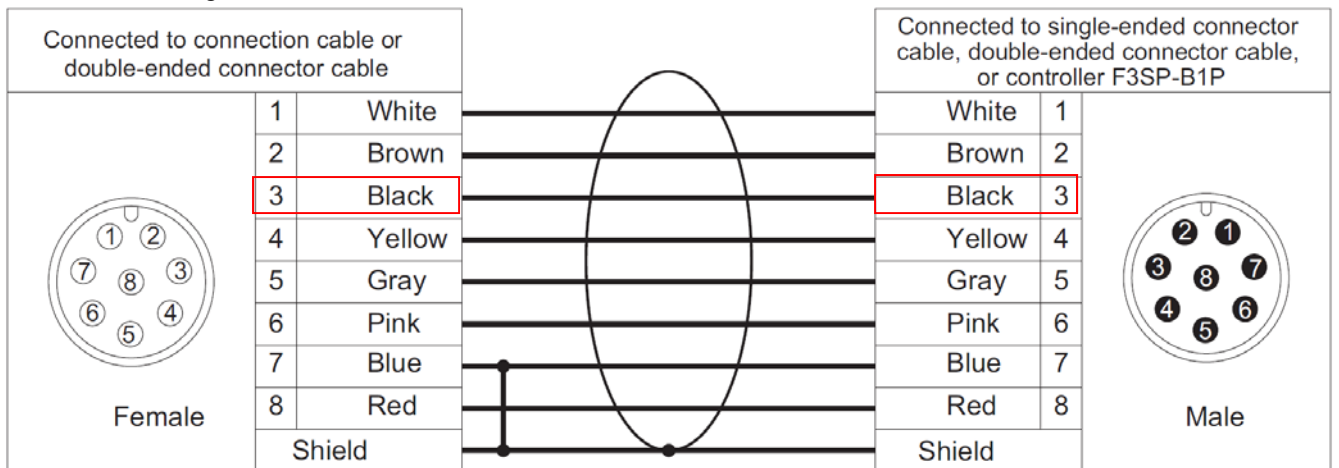


Twisted pair wires are white and red, brown and blue, green and yellow, and grey and pink

**Recommended replacement
Model F39-JD series**

F39-JD□B

The internal wiring color "Black" on Pin No. 3.



Twisted pair wires are white and red, brown and blue, black and yellow, and gray and pink

Dimensions

Product discontinuation Model F39-JC series			Recommended replacement Model F39-JD series		
F39-JC□A/F39-JD□A The outline dimensions of F39-JC and F39-JD are same.					
Set model name	For emitter	For receiver	Set model name	For emitter	For receiver
F39-JCR5A	--	--	Please contact Tech. Support about recommended replacement.	Please contact Tech. Support about recommended replacement.	Please contact Tech. Support about recommended replacement.
F39-JC3A	F39-JC3A-L	F39-JC3A-D	F39-JD3A	F39-JD3A-L	F39-JD3A-D
F39-JC7A	F39-JC7A-L	F39-JC7A-D	F39-JD7A	F39-JD7A-L	F39-JD7A-D
F39-JC10A	F39-JC10A-L	F39-JC10A-D	F39-JD10A	F39-JD10A-L	F39-JD10A-D
F39-JC15A	F39-JC15A-L	F39-JC15A-D	F39-JD15A	F39-JD15A-L	F39-JD15A-D
F39-JC20A	--	--	F39-JD20A	Please contact Tech. Support about recommended replacement.	Please contact Tech. Support about recommended replacement.

Characteristics

Item	Product discontinuation Model F39-JC series	Recommended replacement Model F39-JD series
Materials / Finishing		
Insert	Synthetic resin (UL 94 V-0)/Black	Synthetic resin (UL 94 V-0)/Black
Contacts	Brass / Under plating: Nickel Over plating: Gold	Brass / Under plating: Nickel Over plating: Gold
Coupling	Brass / Nickel plating	Brass / Nickel plating
Cover	PBT (UL 94 V-0)/Black	PBT (UL 94 V-0)/Black
Cable		
Type (Manufacturer)	20276 4PX22AWG (ONAMBA CO., LTD.) Gray/Black	CL2 20276 4PX22AWG (TAIYOCABLE) Gray/Black
Composition of cores	22AWG (13/0.18)	22AWG (17/0.16TAY)
Color of cores	Blue, Brown, White, Red, Gray, Pink, Green, Yellow	Blue, Brown, White, Red, Gray, Pink, Black , Yellow
External diameter	6.6 mm dia.	6.6 mm dia.
Color of sheath	Receiver: Black Emitter: Gray	Receiver: Black Emitter: Gray
Electrical characteristics		
Rated current	1.5 A (Minimum current: 10 μ A, 5 VDC)	1.5 A (Minimum current: 10 μ A, 5 VDC)
Rated voltage	30 VDC	30 VDC
Contact resistance (Connector)	40 m Ω max. (at 20 mVDC max., 100 mA max.)	40 m Ω max. (at 20 mVDC max., 100 mA max.)
Insulation resistance	1000 M Ω minimum (at 500 VDC)	1000 M Ω minimum (at 500 VDC)
Withstanding Voltage (Connector)	1000 VAC for 60 seconds	1000 VAC for 60 seconds
Mechanical characteristics		
Protection Mode	IEC IP67	IEC IP67
Insertion / Withdrawal Durability	200 times	200 times
Cable Keep Force	98N / 15 seconds	98N / 15 seconds
Vibration	10 to 2000 Hz Amplitude 1.52 mm or 98 m/s ² . During vibration, no contact interruption greater than 1 μ s shall occur.	10 to 2000 Hz Amplitude 1.52 mm or 98 m/s ² . During vibration, no contact interruption greater than 1 μ s shall occur.

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.