

COGNEX Cable Guide

Insight 5000 Series (IS5100, IS5400, IS5403, IS5600, IS5605, etc.):

- The camera is powered via the **Power/IO cable** with 24VDC.
 - *TWO OPTIONS:*
 - M12-to-Flying Leads
 - 1 trigger input
 - 2 outputs
 - RS232 Rx/Tx
 - 5m example p/n: CCB-84901-0102-05
 - M12-to-DB15 Connector for use with CIO-1400 Break Out Board
 - 8 inputs (including trigger)
 - 8 outputs
 - 5m example p/n: CCB-84901-0902-05
- The camera is programmed with, communicates to PLC's/robots/devices with **Ethernet cable**.
 - M12-to-RJ45 Ethernet connector
 - 5m example p/n: CCB-84901-1003-05

Insight Micro Series (ISM1100, ISM1400, ISM1403, etc.) Note: no 56XX equivalents:

- **The camera is powered via the Ethernet cable (Power Over Ethernet – PoE).** You must “inject” power onto the Ethernet line between the camera and the device (PLC, robot, etc.) Hence “injector” term (need two ports: PoE and LAN).
 - Use same Ethernet cable as 5000 series:
 - M12-to-RJ45 Ethernet connector
 - 5m example p/n: CCB-84901-1003-05
 - *SIX OPTIONS* for PoE:
 - CIO-MICRO Break Out Board has a PoE port and LAN port
 - Cognex 24VDC, Din-Rail Mount 1-port PoE supply: CPS-24V-POE1
 - Cognex 24VDC, Din-Rail Mount 4-port PoE supply: CPS-24V-POE4
 - Cognex 110VAC, US plug-in style 1-port PoE supply: CPS-AC-POE1A-US
 - Hirschmann 24VDC, Din-Rail Mount PoE supply, various configurations.
 - Cognex VisionView has 4 PoE ports and 1 LAN port: VV700-00
- **Digital IO is optional** on the Micro camera.
 - *TWO OPTIONS:*
 - M8-to-Flying Leads
 - 1 trigger input
 - 2 outputs
 - 5m example p/n: CCB-M8IO-05
 - M12-to-DB15 Connector for use with CIO-MICRO Break Out Board
 - 8 inputs (including trigger)
 - 8 outputs

- 5m example p/n: CCB-M8DSIO-05
- **Serial Communication** is also an optional, separate cable on the Micro camera.
 - RS-232 cable with DB9 Connector
 - 5m p/n: CCB-M8X4-05

Insight 7000 Series (IS7200, IS7400, IS7402, etc.):

- The camera is powered via the **Power/IO cable** with 24VDC.
 - M12-to-Flying Leads
 - 3 inputs (including trigger input)
 - 3 outputs
 - RS232 Rx/Tx
 - 5m p/n: CCB-PWRIO-05
- The camera is programmed with, communicates to PLC's/robots/devices with **Ethernet cable**.
 - M12-to-RJ45 Ethernet connector
 - 5m example p/n: CCB-84901-1003-05

DataMan 100 Series (DMR-100S-00, DMR-100Q-00, DMR-100QL-00, DMR-100X-01, etc.)

- The DMR-100 units only have one cable for power and communication.
 - *TWO OPTIONS* for Communications:
 - USB
 - DB15-to-USB (recommend external DM100-PWR-000)
 - 1.5m cable p/n: DM100-USB-000
 - 3m cable p/n: DM100-USB-030
 - RS-232 (serial)
 - DB15-to-RS232 (required external DM100-PWR-000)
 - 1.5m cable p/n: DM100-RS232-000

DataMan 200 Series (DMR-200S-00, DMR-200Q-00, DMR-200QL-00, DMR-200X-01, etc.)

- The DMR-200 units are very similar to the Insight Micro camera.
- **The camera is powered via the Ethernet cable (Power Over Ethernet – PoE).** You must “inject” power onto the Ethernet line between the camera and the device (PLC, robot, etc.) Hence “injector” term (need two ports: PoE and LAN).
 - Use same Ethernet cable as Insight cameras:
 - M12-to-RJ45 Ethernet connector
 - 5m example p/n: CCB-84901-1003-05
 - *FIVE OPTIONS* for PoE:
 - Cognex 24VDC, Din-Rail Mount 1-port PoE supply: CPS-24V-POE1
 - Cognex 24VDC, Din-Rail Mount 4-port PoE supply: CPS-24V-POE4
 - Cognex 110VAC, US plug-in style 1-port PoE supply: CPS-AC-POE1A-US
 - Hirschmann 24VDC, Din-Rail Mount PoE supply, various configurations.
 - Cognex VisionView has 4 PoE ports and 1 LAN port: VV700-00
- **Digital IO is optional** on the DataMan 200.

- M8-to-Flying Leads
 - 1 trigger input
 - 2 outputs
 - 5m example p/n: CCB-M8IO-05
- **Serial Communication** is also an optional, separate cable on the DataMan 200.
 - RS-232 cable with DB9 Connector
 - 5m p/n: CCB-M8X4-05

DataMan 300 Series (DMR-300X-00, DMR-302X-00, DMR-302L-00, etc.):

- The DMR-300 series is powered via the **Power/IO/Serial cable** with 24VDC.
 - M12-to-Flying Leads
 - 2 inputs (including trigger input)
 - 4 outputs
 - RS232 Rx/Tx
 - 5m p/n: CCB-M12X12FS-05
- The camera is programmed with, communicates to PLC's/robots/devices with **Ethernet cable**.
 - M12-to-RJ45 Ethernet connector
 - 5m example p/n: CCB-84901-1003-05

DataMan 500 Series (DMR-500QL-00, DMR-500X-00)

- The DMR-500 units are very similar to the Insight Micro camera.
- **The camera is powered via the Ethernet cable (Power Over Ethernet – PoE)**. You must “inject” power onto the Ethernet line between the camera and the device (PLC, robot, etc.) Hence “injector” term (need two ports: PoE and LAN).
 - Use same Ethernet cable as Insight cameras:
 - M12-to-RJ45 Ethernet connector
 - 5m example p/n: CCB-84901-1003-05
 - *FIVE OPTIONS* for PoE:
 - Cognex 24VDC, Din-Rail Mount 1-port PoE supply: CPS-24V-POE1
 - Cognex 24VDC, Din-Rail Mount 4-port PoE supply: CPS-24V-POE4
 - Cognex 110VAC, US plug-in style 1-port PoE supply: CPS-AC-POE1A-US
 - Hirschmann 24VDC, Din-Rail Mount PoE supply, various configurations.
 - Cognex VisionView has 4 PoE ports and 1 LAN port: VV700-00
- **Digital IO is optional** on the DataMan 500.
 - M12-to-12 Straight IO Cable
 - 4 inputs (including trigger input)
 - 4 outputs
 - 5m p/n: CCB-M12IO-S05
- **Serial Communication** is also an optional, separate cable on the DataMan 500.
 - RS-232 cable with DB9 Connector
 - 5m p/n: CCB-M8X4-05

Checker 3G Series (C3G1-21G-U00, C3G7-24G-U00)

- The 3G is powered via the **Power/IO cable** with 24VDC.
 - M12-to-Flying Leads
 - 1 trigger input
 - Discrete outputs
 - 5m p/n: C3G-CBL-001
- The 3G is programmed with, communicates to PLC's/robots/devices with **USB cable**.
 - Comes with standard USB cable
 - Optional: IP67, 5m USB cable:
 - CKR-200-CBL-USB

Checker 4G Series (C4G1-24G-E00, C4G7-24G-E00, C4G7-24S-E00, C4G7-24X-E00)

- The 4G is powered via the **Power/IO cable** with 24VDC.
 - M12-to-Flying Leads
 - 1 trigger input and encoder inputs
 - 4 outputs
 - 5m p/n: CKR-4G-CBL-001
- The 4G is programmed with, communicates to PLC's/robots/devices with **Ethernet cable**.
 - M12-to-RJ45 Ethernet connector
 - 5m example p/n: CCB-84901-1003-05