

These adapter cables are suitable for connecting the KATHREIN UHF RFID RRU 4000 and ARU 3000 reader series to an infrastructure used for the RRU 4 and ARU 4 reader families. The existing Ethernet cable for the ARU 4 and RRU 4 reader will be connected to the Ethernet port of the RRU 4000 or ARU 3000 reader. It is not possible to realise a PoE+ supply using this existing cable.

The two GPIO sockets for the RRU 4 and ARU4 reader will be connected to the single GPIO socket of the RRU 4000 and ARU 3000 readers.



> General Specifications

| Order No. | 52010431 | 52010432 |
|----------------------|--|--|
| Type | RAC3 Adapter Cable GPIO | RAC3 Adapter Cable ETH |
| Length | [m] 1 | 0.5 |
| Connector | 1 x M12 male connector, 12-pole, A-coded 1 x M12 female connector, 8-pole, A-coded 1 x M12 female connector, 8-pole, A-coded | 1 x M12 female connector, 4-pole, D-coded 1 x M12 male connector, 8-pole, X-coded |
| Degree of protection | IP65 | |

> Usable with the Following Readers

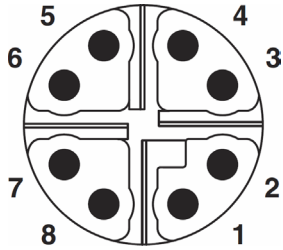
| RRU 4000 Reader Series | Order No. | Type |
|------------------------|---------------------|----------------------|
| | 52010287 + 52010295 | RRU 4400 Reader Unit |
| | 52010288 + 52010296 | RRU 4500 Reader Unit |
| | 52020289 + 52010297 | RRU 4560 Reader Unit |
| | 52020290 + 52010298 | RRU 4570 Reader Unit |
| ARU 3000 Reader Series | Order No. | Type |
| | 52010291 + 52010299 | ARU 3400 Reader Unit |
| | 52010292 + 52010300 | ARU 3500 Reader Unit |
| | 52020292 + 52010301 | ARU 3560 Reader Unit |
| | 52020294 + 52010302 | ARU 3570 Reader Unit |

> Accessories, optional

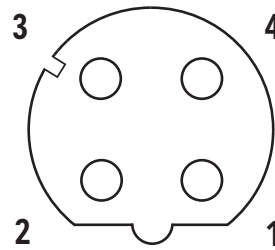
- For more information about accessories, go to <https://www.kathrein-solutions.com/products/hardware/accessories>.

> Drawings RAC3 Adapter Cable Ethernet

Schematic Diagram – M12 male connector, 8-pole, X-coded



Schematic Diagram – M12 socket, 4-pole, D-coded

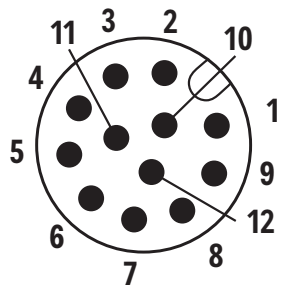


Pin allocation

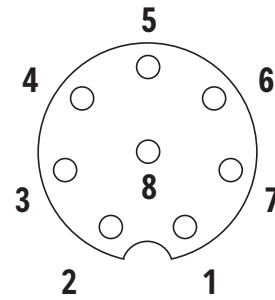
| Pin | M12, X-coded | M12 D-coded | Signal |
|--------|--------------|-------------|----------|
| Pair 1 | 1 | 1 | TX+/POE1 |
| | 2 | 3 | TX-/POE1 |
| Pair 2 | 3 | 2 | RX+/POE2 |
| | 4 | 4 | RX-/POE2 |
| Pair 3 | 5 | n.c. | POE1 |
| | 6 | n.c. | POE1 |
| Pair 4 | 7 | n.c. | POE2 |
| | 8 | n.c. | POE2 |

> Drawings RAC3 Adapter Cable GPIO

Schematic Diagram – M12 male connector, 12-pole, A-coded



Schematic Diagram – M12 socket, 8-pole, A-coded



Connection

| M12, 12-pole, Connector 1 | Description | M12, 8-pole, Connector 2 | M12, 8-pole, Connector 3 |
|---------------------------|-------------|--------------------------|--------------------------|
| 1 | OUT_CMN | 1 | 1 |
| 2 | OUTPUT_1 | | 7 |
| 3 | INPUT_3 | 8 | |
| 4 | INPUT_CMN | 3 | 3 |
| 5 | INPUT_1 | | 2 |
| 6 | GND | 4 | 4 |
| 7 | VCC | 5 | 5 |
| 8 | OUTPUT_4 | 6 | |
| 9 | OUTPUT_3 | 7 | |
| 10 | OUTPUT_2 | | 6 |
| 11 | INPUT_2 | | 8 |
| 12 | INPUT_4 | 2 | |