

MVP12 STEEL

THE IP69K STAINLESS STEEL DISTRIBUTION BOX

Processes and products used in the food and beverage industry have to be free from contamination. Therefore, the requirements regarding cleanliness and corrosion protection are very high.

One of the main requirements is that the components used be easy to clean with no grooves or other small spaces where mold or bacteria can collect. Often the equipment is cleaned with a high-pressure sprayer and aggressive cleaning agents so robust stainless steel is the preferred material for this environment.

Murrelektronik's MVP12 Steel distribution boxes have an IP69K rated stainless steel housing to meet these requirements. They are an excellent choice for implementing decentralized installations for the food and beverage industry. They replace terminal boxes and make the routing of extremely complex cables easier.



RESISTANT AND FUNCTIONAL

- IP69K rating
- Closed stainless steel housing and V4A (1.4404) screw thread bolts
- Cables made of FDA compliant material (CRF 21, 177.2600)
- Use of detergent-resistant plastics (EPDM, PP)
- LEDs at the port



A STRONG TEAM!

To go along with the MVP12 Steel distribution boxes, Murrelektronik offers M12 Steel connectors that are also fully potted and made of corrosion resistant stainless steel. Together, the distribution box and cordset form a closed and rugged unit for Food & Beverage applications.



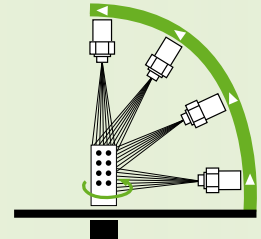
STAINLESS STEEL

Our products are made of high-quality stainless steel. This ensures corrosion resistance and a neutral behavior regarding absorption and contamination of food.



HIGH IP RATING

No matter which wet zone (precleaning, cleaning, rinsing or disinfection) our products are made for these areas. Their IP66K, IP67, IP68 (96 hours) and IP69K ratings ensure maximum system availability.



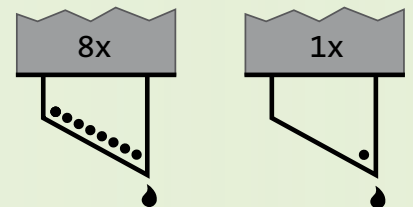
DON'T LOOK FOR ERRORS, FIND THEM

LEDs directly at the ports make troubleshooting easy. Unlike terminal boxes, you do not have to check every single wire. This is a huge time saver, especially when working with large systems.



REDUCED INSTALLATION COSTS

Routing cables while meeting hygienic requirements require a lot of effort. With the MVP12 Steel distribution box, eight sensor cables are replaced by one multipole cable reducing material costs, installation time and space required.



FOOD AND DRUG ADMINISTRATION (FDA)

The US agency responsible for the regulation, and supervision, of food safety and pharmaceutical drugs. Their task is protecting public health. The FDA specifies all materials used in the food and beverage industry through their approvals and regulations. Our TPE-S and TPE-V cables of the M12 Steel and MVP12 Steel families have this approval.



CERTIFIED SAFE

The certifications on our food and beverage connectors confirm their resistance to aggressive cleaning agents and disinfectants.



HYGIENICALLY DESIGNED RECEPTACLES

These receptacles do not have any sharp edges or indentations where dirt or mold might collect. Instead they have curved edges that can be easily and thoroughly cleaned.

ADVANTAGES

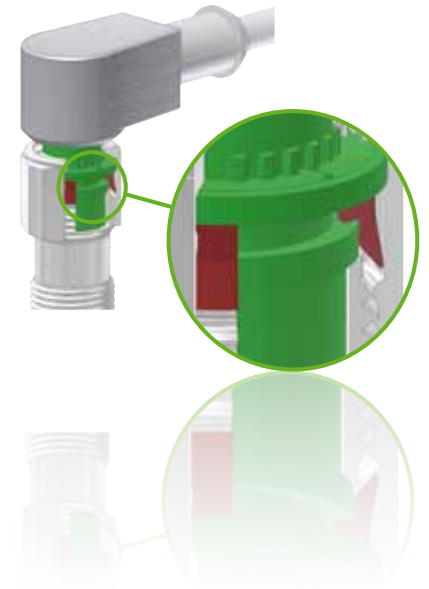
- 4-, 5-, 8-, 12-pole
- A-, B-, D-coded models available
- 0.34 mm² (AWG22) molded PP wires)
- 0.2 m, 0.5 m, 1.0 m standard wire lengths
- Anti-twist protection ensures convenient assembly
- IP69K rating



FOOD AND BEVERAGE WITH A NEW M12 SEALING CONCEPT

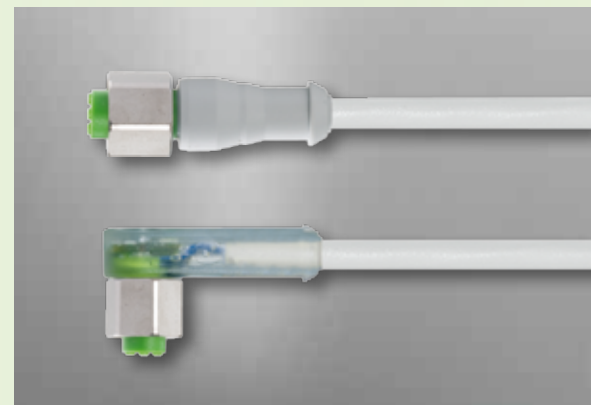
Wet zones are cleaned in two ways: either with foam or by using a combination of water and chemicals. Both processes operate at high temperatures. Murrelektronik's M12 food and beverage connectors enable optimum wiring solutions for sensors and actuators, both in open and closed processes. The gray color of the mold makes it possible to spot residue at a glance.

The unique sealing concept is remarkable. Unlike in a standard distribution box where an o-ring has to be connected with the correct torque, the profile gasket in the port of the MVP12 Steel forms a closed unit with the connector. Due to its special shape, the gasket seals the connector in an axial direction and also in a radial direction. This provides double protection to keep media from getting in the port – a real plus for any connection. Furthermore, they are ECOLAB certified and UL/CSA approved.



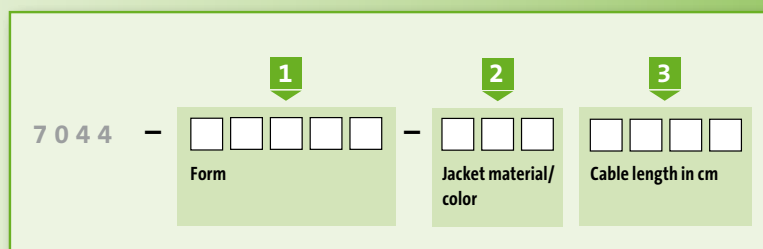
ADVANTAGES

- Tightly sealed – with innovative gasket
- Axial and radial gasket and fastening
- IP66K rated



ARTICLE NUMBER SYSTEM

The article number consists of three blocks: connector type, jacket material/color and cable length.



CONNECTORS

	M12 Steel	Plug Connectors for F&B
Description	Art.Nr.	Art.Nr.
M12 Male 4-pole, straight	7044-12021-yyyxxxx	7014-12021-214xxxx
M12 Male 4-pole, 90°	7044-12101-yyyxxxx	7014-12101-214xxxx
M12 Female 4-pole, straight	7044-12221-yyyxxxx	7014-12221-214xxxx
M12 Female 4-pole, 90°	7044-12341-yyyxxxx	7014-12341-214xxxx
M12 Female 4-pole, with LED, straight	7044-12292-yyyxxxx	7014-12292-214xxxx
M12 Male – M12 Female 4-pole, straight/straight	7044-40021-yyyxxxx	7014-40021-214xxxx
M12 Male – M12 Female 4-pole, straight/90°	7044-40121-yyyxxxx	7014-40121-214xxxx
M12 Male – M12 Female 4-pole, 90°/straight	7044-40201-yyyxxxx	7014-40201-214xxxx
M12 Male – M12 Female 4-pole, 90°/90°	7044-40261-yyyxxxx	7014-40261-214xxxx
Accessories	Art.Nr.	
M12 stainless steel blind plug (1.4301)	996076	
Torque wrench	7000-99102-0000000	

Cable type yyy: 214 = PVC
336 = TPE-S (PP)

Visit our online shop for other pin configurations and shielded models.



PASSIVE STAINLESS STEEL DISTRIBUTION BOXES

Description	Cable length	Art.Nr.
MVP12 Steel, 8-way, with LED	3 m	8044-78510-4530300
MVP12 Steel, 8-way, with LED	5 m	8044-78510-4530500
MVP12 Steel, 8-way, with LED	10 m	8044-78510-4531000
MVP12 Steel, 8-way, with LED	15 m	8044-78510-4531500
MVP12 Steel, 8-way, with LED	20 m	8044-78510-4532000
MVP12 Steel, 8-way, with LED	25 m	8044-78510-4532500
MVP12 Steel, 8-way, with LED	30 m	8044-78510-4533000

RECEPTACLES

Pole	4	5	8	12
Male M12 A-coded	7014-13501-971xxxx	7014-17181-973xxxx	7014-17161-973xxxx	7014-19161-979xxxx
Female M12 A-coded	7014-13541-971xxxx	7014-13561-972xxxx	7014-17181-973xxxx	7014-19181-979xxxx
Male M12 B-coded	7014-14101-974xxxx	7014-14121-975xxxx		
Female M12 B-coded	7014-14141-974xxxx	7014-14161-975xxxx		
Female M12 D-codiert	7014-14501-976xxxx			

Wire xxxx: 0020 – 0.2 m
0050 – 0.5 m
0100 – 1.0 m