

| SELECT

| TRANSFER

| INSTALL

QUICK PICKS

Your Connectivity Essentials





| WELCOME TO QUICK PICKS!

Murrelektronik is dedicated to providing customers with the superior service, dependable products and savvy solutions they need to rise above their competitors in today's aggressive marketplace.

We have increased product inventory at our U.S. warehouse and added optional shipping and manufacturing services to make sure that our customers always receive cost competitive, top quality products in the fastest time possible.

This brochure lists items that are routinely stocked in our U.S. warehouse. The following shipping options are available to expedite orders and reduce costly inventory storage at our customers production facilities.

- Products stocked at the U.S. warehouse can be shipped the same day!*
- Products stocked at the U.S. warehouse can be drop-shipped directly to end-users for faster, customized delivery!*
- Products stocked in Germany can be shipped and delivered in less than one week!*

These services improve ordering flexibility, increase operating efficiency by scheduling product delivery according to manufacturing schedules and provide quick access to more products when and where customers want them!

| PRODUCT FAMILIES

PLC



Control Cabinet

Filters • EMC Suppressors • Relays
Optocouplers • Power Supplies • Mico

Pages 2 - 11



Interfaces

Modlink • Power Outlets • Modlight
Ethernet Switches

Pages 12 - 15



Ethernet

Tree • Cable • RJ45

Pages 16 - 21



Connectivity Solutions

M8 • M12 • 7/8" Valve Plugs • IDC
Distribution Boxes

Pages 22 - 60

Sensor/Actuator



POWER MANAGEMENT SOLUTIONS

Murrelektronik views power management as the starting point for machine efficiency. Power conditioning, properly sized power supplies, current monitoring, redundancy and energy savings are all considered when we assemble a power management solution for our customers. The combined technologies offered by Murrelektronik help you to achieve a power management solution tailored to your application, your budget and your peace of mind.

Filter - Buffer - Redundancy - Power - Current Monitoring:
All From Murrelektronik



| EMC FILTERS

Corrupted signals, especially in industrial surroundings, can lead to faults in operations, the disruption of a production line, or the shutdown of machinery.

- Reduce transient voltages
- Recommended for all “BUS” installations
- Install in multiple locations
- Single and 3-phase versions
- DIN rail mountable (some models)

| Art. Number | Nominal Current | Supply Voltage | Dimension (HxWxD) |
|-------------|-----------------|--------------------------|-------------------|
| 10415 | 10A | Max. 250V AC, 300V DC | 107 x 65 x 39mm |
| 10416 | 20A | | |



| POWER SUPPLIES

| ECO RAIL2 - SINGLE PHASE 1.3-20A 24V DC

| Art. Number | Input Voltage inc. Tolerance | Output Voltage | Dimension (HxWxD) |
|-------------|---------------------------------|-----------------|-------------------|
| 85131 | 90-264V AC | 30W 24V DC 1.3A | 125 x 50 x 70mm |
| 85132 | | 60W 24V DC 2.5A | 125 x 50 x 80mm |
| 85133 | 90-132V AC or 173-264V AC | 120W 24V DC 5A | 125 x 50 x 125mm |
| 85135 | | 240W 24V DC 10A | 125 x 72 x 125mm |
| 85137 | | 480W 24V DC 20A | 125 x 105 x 127mm |



| EVOLUTION - THREE PHASE 5-40A 24V DC

| Art. Number | Input Voltage inc. Tolerance | Output Voltage | Dimension (HxWxD) |
|-------------|--------------------------------------|-------------------|-------------------|
| 85000 | 3 x 324-572V AC or 480-745V DC | 120 W 24V DC, 5A | 132 x 83 x 98mm |
| 85001 | | 240 W 24V DC, 10A | 132 x 93 x 114mm |
| 85002 | | 480W 24V DC, 20A | 132 x 113 x 136mm |
| 85004 | | 960W 24V DC, 40A | 132 x 164 x 142mm |





EMPARRO CAP BUFFER MODULE



| | |
|-------------------|-------------------------|
| Art. Number | 85458 |
| Input Voltage | 21.6 - 28V DC |
| Output Voltage | 28 - 21.6V DC |
| Buffering Time | 2.4 sec. / 20A / 24V DC |
| Dimension (HxWxD) | 123 x 65 x 143mm |

EMPARRO

- 50% Power Boost for up to 4 seconds
- Metal housing with optimum EMC characteristics
- No derating from -25° to +60°C
- Narrow (50 - 85mm) width
- High mains failure bridging time



SINGLE PHASE 5-20A 24V DC



| Art. Number | Input Voltage inc. Tolerance | Output Voltage | Dimension (HxWxD) |
|-------------|------------------------------------|-----------------|-------------------|
| 85440 | 85 - 265V AC or 90 - 250V DC | 24 - 28V DC 5A | 125 x 50 x 138mm |
| 85441 | | 24 - 28V DC 10A | 123 x 65 x 138mm |
| 85442 | | 24 - 28V DC 20A | 125 x 85 x 138mm |



The 24V Emparro 3-phase power supplies are extremely reliable, extraordinarily efficient and they don't take up much cabinet space.

- Continuous 2-phase operation
- Parallel operation (Connect up to five units to each other)
- Alarm contact & LED
- Derating from 60°C

PREVENTATIVE DIAGNOSTICS

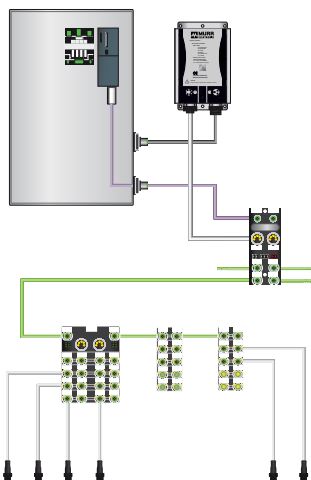
Emparro 3 phase 40A continuously monitors parameters like temperature, load or number of starts. The unit generates a message when it is time to be replaced. Replacement can be scheduled for the next service interval. This helps to reduce unplanned downtime.

| THREE PHASE 5-20A 24-28V DC

| Art. Number | Input Voltage inc. Tolerance | Output Voltage | Dimension (HxWxD) |
|-------------|--|-----------------|----------------------|
| 85690 | | 24 - 28V DC 5A | 123 x 50 x 138mm |
| 85691 | 3 x 324-572V AC or 3 x 450-745V DC | 24 - 28V DC 10A | 123 x 65 x 138mm |
| 85692 | | 24 - 28V DC 20A | 123 x 65 x 167mm |
| 85693 | | 24 - 28V DC 40A | 138 x 109 x 182mm |



EMPARRO67



Supply power right next to the load.

Emparro67 power supplies are designed for applications outside the control cabinet. They are able to withstand fluctuations in environmental conditions and are able to be installed in the field, next to the load.

Power loss is kept to a minimum, because the voltage is converted from 230V AC to 24V DC directly at the load. This reduces energy costs and allows builders to use smaller cabinets.



| Art. Number | Input Voltage inc. Tolerance | Output Voltage | Dimension (HxWxD) |
|--------------------|------------------------------|----------------|-------------------|
| 9000-11112-1962020 | 90-265V AC/V DC | 24V DC 5A | 140 x 109 x 51mm |
| 9000-11112-2062020 | | 24V DC 10A | 175 x 109 x 51mm |

EMPARRO67 HYBRID IO-Link

Emparro67 Hybrid is a switch mode power supply that monitors currents using two integrated 24V DC load circuit monitoring channels to ensure system reliability. An IO-Link interface permits extensive and transparent communication.



| Art. Number | Input Voltage inc. Tolerance | Output Voltage | Dimension (HxWxD) |
|-------------|------------------------------|----------------|-------------------|
| 85676 | 90-265V AC/V DC | 24V DC 10A | 212 x 109 x 51mm |

POWER CABLE (Mini (7/8") to Wall Plug)

| Jacket Color | Cable Type | Length | Art. Number |
|--------------|------------|--------|--------------------|
| Yellow | TPE | 2m | 7700-A3N01-U1B0200 |

| CAPACITOR BASED POWER BUFFERING

| | |
|----------------------|--|
| Art. Number | 85394 |
| Input Voltage | 23 - 30V DC (SELV/PELV) |
| Output Voltage | 24V DC, 22 - 28V DC |
| Current Limit | 26A |
| Buffering Time | .2 sec. / 20A / 24V DC, 4 sec. / 1A / 24V DC |
| Dimension (HxWxDxTA) | 115 x 62 x 145 x 20mm |



| | |
|-------------------|----------------------------|
| Art. Number | 85460 |
| Input Voltage | 20.4 - 26.4V DC |
| Output Voltage | 23V DC |
| Buffering Time | 7 sec. (3A) / 21 sec. (1A) |
| Dimension (HxWxD) | 100 x 60 x 125mm |



| MB REDUNDANCY BALANCE

- 50:50 auto load balancing
- LEDs for channel-specific status indication
- Signal contact for input voltage and load distribution
- Full power ready when needed

| | |
|-------------------|----------------|
| Art. Number | 85496 |
| Input Voltage | 24V DC |
| Input Current | 2 x 20A |
| Total Current | max. 40A |
| Output Voltage | 24V DC |
| Auto Balancing | Yes (50/50) |
| Dimension (HxWxD) | 90 x 70 x 80mm |



| MB DIODE - POWER SUPPLY REDUNDANCY

Reduce the power consumption of two power supplies by 50%

- Automatic switching between power supplies
- Signal Reporting
- Bridging for MICO

| | |
|-------------------|------------------------|
| Art. Number | 85396 |
| Input Voltage | 24V DC |
| Output Voltage | 24V DC |
| Overload | at 20A +50% for 4 sec. |
| Dimension (HxWxD) | 90 x 70 x 80mm |



| MIRO 6.2

Relays and optocouplers are essential in control systems and process automation. They are used to amplify, modify, isolate and/or transfer signals to other parts of the automation process while at the same time reducing the danger of disruption caused by interference.

- 6.2mm wide housing
- Screw Terminals or Spring Clamps
- Integrated LED and Label Plates

| RELAY



| Art. Number | Output Relay | Input Voltage | Max. Switching Voltage |
|----------------------------|---------------|---------------|------------------------|
| 52000 (ST) 6652000 (SC) | 1 C/O contact | 24V DC | 250V AC 6A |
| 52001 (ST) 6652001 (SC) | | 24V AC/DC | |
| 52002 (ST) 6652002 (SC) | 1 N/O contact | 24V DC | |
| 52015 (ST) 6652015 (SC) | | 24V AC/DC | |

ST = Screw Terminals

SC = Spring Clamps

| OPTOCOUPLER - Solid State Switching



| Art. Number | Type | Input Voltage | Max. Switching Voltage |
|------------------------|------|---------------|------------------------|
| 52500 | .5A | 24V DC | 5 - 48V DC |
| 52501 | 2A | | |
| 52502 | | 5V DC | |
| 3000-32512- 2100040 | 6A | 24V DC | 3 - 30V DC |

| MULTI-FUNCTION TIMER



| | | |
|---------------------------------|-----------|--|
| Art. Number | 52350 | Functions: On Delay One Shot Pause Start Pulse Start Off Delay |
| Time Range | .1 - 300s | |
| Max. Current / Min. Load | 6A / 10mA | |
| Approvals | UL + CSA | |

Do you recognize any of these 24V DC control circuit problems?

- Sensor & valve cables get very hot, melt or catch fire without the breaker reacting
- We have to shut down the machine to reset a breaker, repair sensor cables or replace a fuse
- We have to open the control cabinet to see which breaker or fuse failed, and keep the cabinet open to troubleshoot a circuit
- The power supply shuts down during a short circuit or overload
- We oversize our power supply to prevent it drawing down before our breakers trip
- We oversize our breaker or fuse to avoid them blowing during machine start-up
- We have to keep many different breakers and fuses in stock



| MICO - 24V CIRCUIT MONITORING & PROTECTION

Combine your power supplies with MICO,
the intelligent power distribution system.

- Monitor & protect against overload & short circuit
- Alert Others - signal provided for condition changes
- Easy Reset- signal contact for remote reset possibilities
- UL Listed

7 Models
with
NEC Class 2
Approval



| MICO+

| | | | |
|------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Art. Number | 9000-41084-0100400 | 9000-41084-0100600 | 9000-41084-0401000 |
| Nominal Input Voltage | 24V DC - Min. 10A, Max. 16A | 24V DC - Min. 10A, Max. 24A | 24V DC - Min. 10A, Max. 40A |
| Channels | 4 | 4 | |
| Current Adjustment | 1A/2A/3A/4A | 1A/2A/4A/6A | 4A/6A/8A/10A |
| Dimension (HxWxD) | 90 x 70 x 80mm | 90 x 70 x 80mm | |

| MICO CLASSIC


| | | | | |
|------------------------------|----------------------|-----------------------------|----------------------|--------------------------------|
| Art. Number | 9000-41034-0100400 | 9000-41042-0100600 | 9000-41034-0100600 | 9000-41034-0401000 |
| Nominal Input Voltage | 24V DC | 24V DC - Min. 10A, Max. 40A | | 24V DC - Min. 20A, Max. 40A |
| Channels | 4 current selectable | 2 current selectable | 4 current selectable | |
| Current Adjustment | 1A, 2A, 3A, 4A | 1A, 2A, 4A, 6A | | 4A, 6A, 8A, 10A |
| Dimension (HxWxD) | 90 x 70 x 80mm | 90 x 36 x 80mm | 90 x 70 x 80mm | |

| MICO BASIC

| | | | |
|-------------------------------|-------------------------------|--------------------------------|--------------------------------|
| Art. Number | 9000-41064-0200000 | 9000-41064-0400000 | 9000-41064-0600000 |
| Nominal Input Voltage | 24V DC - Min. 10A, Max. 8A | 24V DC - Min. 10A, Max. 16A | 24V DC - Min. 10A, Max. 24A |
| Channels | 4 | | 4 |
| Current Range (Preset) | 2A | 4A | 6A |
| Dimension (HxWxD) | 90 x 35 x 80mm | | 90 x 35 x 80mm |

| | | | |
|-------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Art. Number | 9000-41068-0200000 | 9000-41068-0400000 | 9000-41068-0600000 |
| Nominal Input Voltage | 24V DC - Min. 10A, Max. 16A | 24V DC - Min. 10A, Max. 32A | 24V DC - Min. 10A, Max. 48A |
| Channels | 8 | | |
| Current Range (Preset) | 2A | 4A | 6A |
| Dimension (HxWxD) | 90 x 70 x 80mm | | |

| | | | |
|-------------------------------|-----------------------------|--------|--|
| Art. Number | 9000-41068-0200600 | | |
| Nominal Input Voltage | 24V DC - Min. 10A, Max. 28A | | |
| Channels | 8 | | |
| Current Range (Preset) | 5 x 2A | 3 x 6A | |
| Dimension (HxWxD) | 90 x 70 x 80mm | | |

 Models with NEC Class 2 Certification

| MODLINK MSDD - PROGRAMMING PORT



| LOW PROFILE LIDS

- Transparent & Fiberglass Reinforced Models
- Metallic colored plastic

| MODULAR INSERTS

- Single or Double Frame Sizes
- Power and Communication Together
- Country Specific Connections

| RUGGED

- IP65 Protection Outside
- IP20 Inside with Touch Protection
- UL Recognized Components

| COMBO LOCKING MECHANISM

- 3mm Double-bit Key or Knob

| EASY TO OPEN & CLOSE

- Integrated Spring Lifts the Lid 30°
- Lid with Locking Position
- Lid stays open while in use



Never get locked out again!
Cabinet Key
Art. No. 9880293

| FRAMES

| Art. Number | Style | Locking Mechanism |
|--------------------|--------------------------|-------------------------|
| 4000-68512-0000001 | Single Transparent Frame | Double-Bit Key and Knob |
| 4000-68513-0000001 | Single Silver Frame | |
| 4000-68522-0000001 | Double Transparent Frame | |
| 4000-68523-0000001 | Double Silver Frame | |

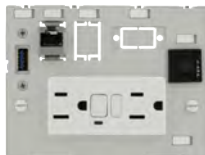
| SINGLE OR DOUBLE FRAME INSERTS

| Art. Number | Style |
|--------------------|--|
| 4000-68000-3240000 | Single Outlet, Screw Terminals |
| 4000-68000-4000000 | Single Outlet, RJ45 CAT 5e, DB25 Serial |
| 4000-68000-4010000 | Single Outlet, RJ45 CAT 5e, DB9 Serial F/F |
| 4000-68000-4020000 | Single Outlet, RJ45 CAT 5e, DB9 Serial F/M |
| 4000-68000-4030000 | Single Outlet, RJ45 CAT 5e, USB |
| 4000-68000-4040000 | Single Outlet, RJ45 CAT 5e |
| 4000-68000-4060000 | Single Outlet, 2 x RJ45 |



| DOUBLE FRAME INSERTS

| Art. Number | Style |
|--------------------|---------------------------------|
| 4000-68000-4100000 | GFCI 15A, RJ45, USB A, 3A Fuse |
| 4000-68000-4110000 | GFCI 15A, RJ45, 3A Fuse |
| 4000-68000-4120000 | GFCI 15A, 2 x RJ45, 3A Fuse |
| 4000-68000-4130000 | GFCI 15A, RJ45, Sub-D9, 3A Fuse |
| 4000-68000-4140000 | GFCI 15A, 3A Fuse |
| 4000-68000-4200000 | NEMA 5-15, RJ45, USB A, 3A Fuse |



| PRECONFIGURED COMMON SETS

| Art. Number | Components |
|--------------------|--|
| 4000-68513-4070001 | Single Silver Frame; Single Outlet, RJ45 CAT 5e, 3A fuse |
| 4000-68523-4110001 | Double Silver Frame; GFCI 15A, RJ45, 3A Fuse Insert |
| 4000-68523-4120001 | Double Silver Frame; GFCI 15A, 2 x RJ45, 3A Fuse Insert |

| CUSTOM LASER ETCHING

You can now add your company logo, graphics, text, barcode or other information to the cover of your Modlink frame. Order using the article numbers below and keep in mind the following best practices for your graphic files:

- Graphics should be submitted as either .dxf, .dwg or .eps files
- Black and white graphics will reproduce better than color ones
- Graphics may be submitted as high resolution (300dpi) .jpg files. However, reproduction quality can not be guaranteed. For best results, submit one of the file formats above.
- Area available for laser etching is indicated by the pink rectangles on the frames below



| Art. Number | Style |
|--------------------|-------------------------------|
| 400C-68512-0000001 | Single Frame, Transparent Lid |
| 400C-68513-0000001 | Single Frame, Metallic Lid |
| 400C-68514-0000001 | Single Frame, Gray Lid |
| 400C-68522-0000001 | Double Frame, Transparent Lid |
| 400C-68523-0000001 | Double Frame, Metallic Lid |
| 400C-68524-0000001 | Double Frame, Gray Lid |

| MODLIGHT ILLUMIX

LIGHTING FOR ANY JOB

- Daylight quality lighting - 105lm/W
- 5500K white point
- Glare and flicker free
- Maintenance free, long lasting LED bulb
- IP67 rated
- 360° rotatable mounting brackets



| | Dimensions (HxWxD) | Power/Rated Voltage | Luminaire Light Current | Article Number |
|------------------|-----------------------|------------------------|----------------------------|--------------------|
| Slim Line 4W | 34 x 24 x 218mm | 4W / 24V DC | 420lm | 4000-75800-1715004 |
| Slim Line 8W | 34 x 24 x 358mm | 8W / 24V DC | 840lm | 4000-75800-1715008 |
| Slim Line 16W | 34 x 24 x 638mm | 16W / 24V DC | 1680lm | 4000-75800-1715016 |
| Slim Line 24W | 34 x 24 x 918mm | 24W / 24V DC | 2520lm | 4000-75800-1715024 |
| Slim Line 32W | 34 x 24 x 1198mm | 32W / 24V DC | 3360lm | 4000-75800-1715032 |
| Classic Line 6W | 37 x 40 x 235mm | 6W / 24V DC | 630lm | 4000-75801-1415006 |
| Classic Line 12W | 37 x 40 x 410mm | 12W / 24V DC | 1260lm | 4000-75801-1415012 |
| Classic Line 18W | 37 x 40 x 585mm | 18W / 24V DC | 1890lm | 4000-75801-1415018 |
| Classic Line 24W | 37 x 40 x 760mm | 24W / 24V DC | 2520lm | 4000-75801-1415024 |

| ETHERNET PRODUCTS

| TREE UNMANAGED ETHERNET SWITCH

Is designed to work in industrial environments that require compliance with UL, CE, FCC & RoHS Standards. This unmanaged Ethernet switch provides the switching needed to connect Ethernet-based devices to distributed systems and to incorporate Ethernet-based devices and industrial protocols.

Technology

- 10/100BaseT(X) (RJ45)
- Broadcast storm protection
- Support IEEE 802.3/ 802.3u/ 802.3x
- 10/100M, Full/Half-Duplex, MDI/MDI-X auto-detection

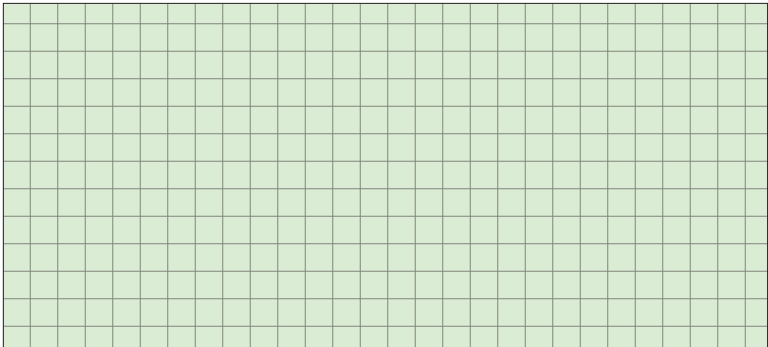
Reliability

- Redundant dual DC power inputs
- Operating temperature ranges from -10 to 70° C
- Rugged high-strength housing
- DIN-Rail or wall mounting ability

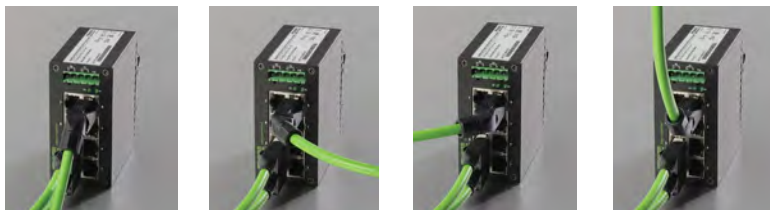


| | | | |
|-------------------------------|----------------|------------|---------|
| Art. Number | 58170 | 58171 | 58173 |
| Number of Ports | 6 | 8 | |
| Transfer Rate | 10-100MB | | Gigabit |
| Supply Voltage | 9 - 30V DC | 9 - 48V DC | |
| Nominal Supply Voltage | 24V DC | | |
| Dimension (HxWxD) | 90 x 45 x 78mm | | |

|Notes:



RJ45 PROFESSIONAL FIELD WIREABLE CONNECTORS



- Straight or angled (4 in 1)
- Safer and easier insulation displacement connection (IDC) terminal
- Wire cross section .14 - .34mm²
- CAT 5e (ProfiNet, Ethernet) or CAT 6_A (Gigabit)

| Type | Art. Number |
|--|--------------------|
| Straight 4-pole Profinet/Ethernet, IDC | 7000-74001-0000000 |
| Straight 8-pole Gigabit, IDC | 7000-74011-0000000 |
| 90° (4 in 1) 4-pole Profinet/Ethernet, IDC | 7000-74021-0000000 |
| 90° (4 in 1) 8-pole Gigabit, IDC | 7000-74031-0000000 |



RJ45 CABINET CABLES (Cat 6_A - 10Gbit/s)

| Cable | Jacket Color | Cable Type | Length | Art. Number |
|--|--------------|------------|--------|--------------------|
| .14m ² wire cross section (AWG26) | Gray | FRNC/LSOH | .3m | 7000-74711-7780030 |
| | | | .6m | 7000-74711-7780060 |
| | | | 1m | 7000-74711-7780100 |
| | | | 3m | 7000-74711-7780300 |
| | | | 5m | 7000-74711-7780500 |
| | | | 7.5m | 7000-74711-7780750 |
| | | | 10m | 7000-74711-7781000 |



RJ45 & USB PANEL PASS-THROUGH

| Art. Number | Style |
|--------------------|--|
| 4000-73000-0010000 | RJ45 (female/female), CAT 5e |
| 4000-73000-0150000 | USB 3.0 Female (form A) .6m cable extension |
| 7000-44671-0000000 | RJ45/M12 receptacle straight, D coded |
| 7000-44681-0000000 | RJ45/M12 receptacle 90°, D coded |
| 7000-44611-0000000 | M12/M12 4-pole, D coded |



CAT5e ETHERNET CABLE

EtherNet/IP™

EtherCAT®

Modbus

PROFI®
NET

M12 - M12



| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------|--------------|--|--------|--------------------|
| 4 | Green | PUR (UL/CSA) Suitable for C-tracks | 1.5m | 7000-44511-7960150 |
| | | | 3m | 7000-44511-7960300 |
| | | | 5m | 7000-44511-7960500 |
| | | | 7.5m | 7000-44511-7960750 |
| | | | 10m | 7000-44511-7961000 |
| | Teal | TPE c(UL)us ITC/PLTC AWM 80°C 600V | 1.5m | 7700-44511-S7V0150 |
| | | | 3m | 7700-44511-S7V0300 |
| | | | 5m | 7700-44511-S7V0500 |
| | | | 7.5m | 7700-44511-S7V0750 |
| | | | 10m | 7700-44511-S7V1000 |
| 8 | Teal | TPE c(UL)us Type CM AWM 80°C 600V | 1.5m | 7700-44511-S4U0150 |
| | | | 3m | 7700-44511-S4U0300 |
| | | | 5m | 7700-44511-S4U0500 |
| | | | 7.5m | 7700-44511-S4U0750 |
| | | | 10m | 7700-44511-S4U1000 |
| | Teal | Type CM AWM 80°C 600V | 1.5m | 7700-48511-S4W0150 |
| | | | 3m | 7700-48511-S4W0300 |
| | | | 5m | 7700-48511-S4W0500 |
| | | | 7.5m | 7700-48511-S4W0750 |
| | | | 10m | 7700-48511-S4W1000 |

| Code | Wires | Use | Cable Description |
|------|-------|---------------|--|
| S4U | 4 | Ethernet/IP | High Flex Industrial Ethernet, CAT5e, SF/UTP 2-Pair 24AWG C(UL)US CMX Outdoor - CM 75C Sunlight Resistant Oil Res II or AWM2463 80C 600V |
| S4W | 8 | Ind. Ethernet | High Flex Industrial Ethernet, CAT5e, SF/UTP 4-Pair 24AWG C(UL)US CMX Outdoor - CM 75C Sunlight Resistant Oil Res II or AWM2463 80C 600V |
| S7V | 4 | ProfiNet | High Flex Industrial Ethernet, Profinet Type B and C, CAT5e, SF/UTP 2-Pair 22AWG C(UL)US CMX Outdoor - CM ITC/PLTC 75C Sunlight Resistant Oil Res II or AWM2463 80C 600V |

RJ45 - RJ45



| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------|--------------|--|--------|---------------------|
| 4 | Green | PUR (UL/CSA) Suitable for C-tracks | 1.5m | 7000-74301-7960150 |
| | | | 3m | 7000-74301-7960300 |
| | | | 5m | 7000-74301-7960500 |
| | | | 7.5m | 7000-74301-7960750 |
| | | | 10m | 7000-74301-7961000 |
| | Teal | TPE c(UL)us ITC/PLTC AWM 80°C 600V | 1.5m | 7700-74301-S7V0150 |
| | | | 3m | 7700-74301-S7V0300 |
| | | | 5m | 7700-74301-S7V0500 |
| | | | 7.5m | 7700-74301-S7V0750 |
| | | | 10m | 7700-74301-S7V1000 |
| 8 | Teal | TPE c(UL)us Type CM AWM 80°C 600V | 1.5m | 7700-74301-S4U0150 |
| | | | 3m | 7700-74301-S4U0300 |
| | | | 5m | 7700-74301-S4U0500 |
| | | | 7.5m | 7700-74301-S4U0750 |
| | | | 10m | 7700-74301-S4U1000 |
| | | | 10m | 7700-74718-S4W01000 |

BULK CABLE



| | | |
|-----------------------|----------------------------|--------------------|
| Art. Number | 7000-C0201-7960000 | 7700-C0201-S4U0000 |
| Poles | 4 | |
| Cable Type | PUR (flex rated) | TPE |
| Length | 100m | |
| Outer Diameter | approx. 6.7mm | |
| Wire Diameter | 2 x 2 x .34mm ² | |
| Jacket Color | Green | Teal |

| X CODE M12 CABLE

| M12 - M12

| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------|--------------|-----------------|--------|--------------------|
| 8 | Green | PUR (UL/CSA) | 2m | 7000-51001-7900200 |
| | | | 5m | 7000-51001-7900500 |
| | | | 10m | 7000-51001-7901000 |
| | Teal | TPE c(UL)us | 2m | 7700-51001-54X0200 |
| | | | 5m | 7700-51001-54X0500 |
| | | | 10m | 7700-51001-54X1000 |



| M12 - RJ45

| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------|--------------|-----------------|--------|--------------------|
| 8 | Green | PUR (UL/CSA) | 2m | 7000-51101-7900200 |
| | | | 5m | 7000-51101-7900500 |
| | | | 10m | 7000-51101-7901000 |
| | Teal | TPE c(UL)us | 2m | 7700-51101-54X0200 |
| | | | 5m | 7700-51101-54X0500 |
| | | | 10m | 7700-51101-54X1000 |



| FEMALE RECEPTACLE - RJ45

| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------|--------------|-----------------|--------|--------------------|
| 8 | Green | PUR (UL/CSA) | 1m | 7000-51551-7900100 |
| | | | 2m | 7000-51551-7900200 |
| | | | 5m | 7000-51551-7900500 |
| | Teal | TPE c(UL)us | 1m | 7700-51551-54X0100 |
| | | | 2m | 7700-51551-54X0200 |
| | | | 5m | 7700-51551-54X0500 |



| Code | Cable Description |
|------|---|
| 790 | Industrial Ethernet, CAT7, S/FTP 4-Pair 26AWG, AWM 20236 80C 30V or c(UR)us AWM I/II A/B FT1 VW-1 |
| S4X | High Flex Industrial Ethernet, CAT6a, SF/UTP 4-Pair 26AWG, c(UL)us CMX Outdoor - CMR 75C Sunlight Resistant Oil Res II or AWM 2463 80C 600V |



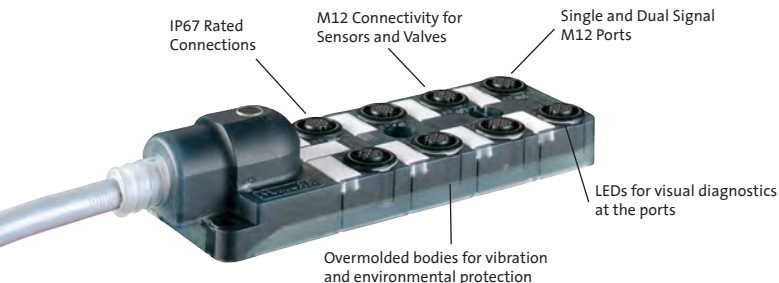
DISTRIBUTION BOXES

Murrelektronik distribution boxes offer solutions for a diverse array of applications. Space saving and maintenance friendly, they offer a significant cost reduction compared to junction boxes and can be installed in a quarter of the time.

See page 30 for details!



EXACT12



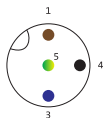
SIGNAL SELECTION

- NPN or PNP
- With or without LED
- 4 or 8 Port

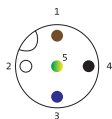
CABLE

- Lengths to 30m
- PUR/PVC or PUR
- M23 Termination Optional
- M12 8 and 12-pin Assemblies

4 & 5-POLE VERSIONS

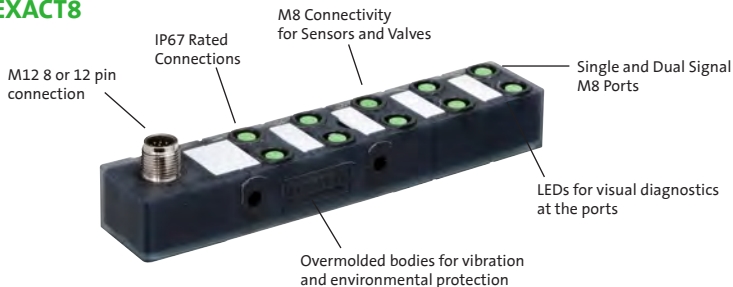


1. Brown (+24)
2. Blue (-)
3. Black (Signal 1)
4. Green/Yellow - Earth Ground



1. Brown (+24)
2. White (Signal 2)
3. Blue (-)
4. Black (Signal 1)
5. Green/Yellow - Earth Ground

EXACT8



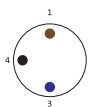
SIGNAL SELECTION

- NPN or PNP
- With or without LED
- 4, 6, 8 or 10 Port

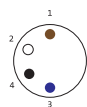
CABLE

- Lengths to 30m
- PUR/PVC or PUR
- M12 8 and 12-pin Assemblies

3 & 4-POLE VERSIONS



1. Brown (+24)
2. Blue (-)
3. Black (Signal 1)
4. Black (Signal 1)



1. Brown (+)
2. White (Signal 2)
3. Blue (-)
4. Black (Signal 1)

| M12 DISTRIBUTION BOXES

| INTEGRATED CABLE



| EXACT12 4-PORT, 4-POLE (1 signal per port)

| | | | |
|----------------------|--------------------|--------------------|--------------------|
| PNP Art. Number | 8000-84410-3330300 | 8000-84410-3330500 | 8000-84410-3331000 |
| NPN Art. Number | | 8000-84411-3330500 | 8000-84411-3331000 |
| PUR/PVC Cable Length | 3m | 5m | 10m |
| Port | M12 female 4-pole | | |



| EXACT12 4-PORT, 5-POLE (2 signals per port)

| | | | |
|----------------------|--------------------|--------------------|--------------------|
| PNP Art. Number | 8000-84510-3630300 | 8000-84510-3630500 | 8000-84510-3631000 |
| NPN Art. Number | | 8000-84511-3630500 | 8000-84511-3631000 |
| PUR/PVC Cable Length | 3m | 5m | 10m |
| Port | M12 female 5-pole | | |



| EXACT12 8-PORT, 4-POLE (1 signal per port)

| | | | |
|----------------------|--------------------|--------------------|--------------------|
| PNP Art. Number | 8000-88410-3620300 | 8000-88410-3620500 | 8000-88410-3621000 |
| NPN Art. Number | | 8000-88411-3620500 | 8000-88411-3621000 |
| PUR/PVC Cable Length | 3m | 5m | 10m |
| Port | M12 female 4-pole | | |



| EXACT12 8-PORT, 5-POLE (2 signals per port)

| | | | |
|----------------------|--------------------|--------------------|--------------------|
| PNP Art. Number | 8000-88510-3980300 | 8000-88510-3980500 | 8000-88510-3981000 |
| NPN Art. Number | | 8000-88511-3980500 | 8000-88511-3981000 |
| PUR/PVC Cable Length | 3m | 5m | 10m |
| Port | M12 female 5-pole | | |

| M12 PORT PLUG



| |
|-----------------------|
| Art. Number - Hex Nut |
| 58627 |

CAP & CABLE

EXACT12 4-PORT



| | | |
|--|--------------------|--------------------|
| PNP Art. Number | 8000-84400-0000000 | 8000-84500-0000000 |
| NPN Art. Number | 8000-84401-0000000 | 8000-84501-0000000 |
| Without LED Art. Number | 8000-84402-0000000 | 8000-84502-0000000 |
| Port | M12 female 4-pole | M12 female 5-pole |
| Cap for Home Run Cable (Spring Clamp) | 8000-88549-0000000 | |

EXACT12 PLUG

with Integrated Cable for 4-port Distribution Systems



| | | | | |
|-----------------------|--|--------------------|--|--------------------|
| Art. Number | 8000-84459-3330500 | 8000-84459-3331000 | 8000-84559-3630500 | 8000-84559-3631000 |
| Port | 4-port, 4-pole | | 4-port, 5-pole | |
| Cable Length | 5m | 10m | 5m | 10m |
| Cap with Cable | PUR/PVC 4 x .34 / 3 x .75mm ² | | PUR/PVC 8 x .34 / 3 x .75mm ² | |

EXACT12 8-PORT



| | | |
|--|--------------------|--------------------|
| PNP Art. Number | 8000-88400-0000000 | 8000-88500-0000000 |
| PNP With Field Wireable Cap | 8000-88450-0000000 | 8000-88550-0000000 |
| NPN Art. Number | 8000-88401-0000000 | 8000-88501-0000000 |
| Without LED Art. Number | 8000-88402-0000000 | 8000-88502-0000000 |
| Port | M12 female 4-pole | M12 female 5-pole |
| Cap for Home Run Cable (Spring Clamp) | 8000-88549-0000000 | |

EXACT12 PLUG

with Integrated Cable for 8-port Distribution Systems



| | | | | |
|-----------------------|--|--------------------|---|--------------------|
| Art. Number | 8000-88459-3620500 | 8000-88459-3621000 | 8000-88559-3980500 | 8000-88559-3981000 |
| Port | 8-port, 4-pole | | 8-port, 5-pole | |
| Cable Length | 5m | 10m | 5m | 10m |
| Cap with Cable | PUR/PVC 8 x .34 / 3 x .75mm ² | | PUR/PVC 16 x .34 / 3 x .75mm ² | |

| M8 DISTRIBUTION BOXES

| INTEGRATED CABLE

| 4-PORT

| | | |
|---------------------|---------------------------|--|
| Art. Number | 8000-84010-3370500 | |
| Cable Length | 5m | |
| Port | M8 Female, 3-pole, 4 port | |



| 8-PORT

| | | |
|---------------------|---------------------------|--------------------|
| Art. Number | 8000-88010-3590500 | 8000-88010-3591000 |
| Cable Length | 5m | 10m |
| Port | M8 Female, 3-pole, 8 port | |



| 10-PORT

| | | |
|---------------------|----------------------------|--------------------|
| Art. Number | 8000-80010-3840500 | 8000-80010-3841000 |
| Cable Length | 5m | 10m |
| Port | M8 Female, 3-pole, 10 port | |



| 4-PORT M12 MULTI POLE HOMERUN



| Art. Number | Port | Plug Connector M12 |
|--------------------|------------------|---------------------------|
| 8000-84060-0000000 | M8 female 3-pole | 12-pole |
| 8000-84070-0000000 | | 8-pole |
| 8000-84160-0000000 | M8 female 4-pole | 12-pole |

| 8-PORT M12 MULTI POLE HOMERUN

| | |
|---------------------------|--------------------|
| Art. Number | 8000-88060-0000000 |
| Port | M8 female 3-pole |
| Plug Connector M12 | 12-pole |



| 10-PORT M12 MULTI POLE HOMERUN

| | |
|---------------------------|--------------------|
| Art. Number | 8000-80060-0000000 |
| Port | M8 female 3-pole |
| Plug Connector M12 | 12-pole |





| EXACT8 PLUGGABLE HOUSING

| Art. Number | Type | Port |
|--------------------|---------|-------------------|
| 8000-88000-0000000 | 8-port | M8 female, 3-pole |
| 8000-80000-0000000 | 10-port | |



| PLUGGABLE CAP & CABLE

| Art. Number | 8000-88049-3570500 | 8000-88049-3571000 | 8000-80049-3850500 | 8000-80049-3851000 |
|--------------|--|--------------------|--------------------|--------------------|
| Type | 8-port | | 10-port | |
| General | For 3 pole distribution block connectivity | | | |
| Cable Type | PUR/PVC | | | |
| Cable Length | 5m | 10m | 5m | 10m |
| Cable Color | Gray | | | |

| M8 PORT PLUG



| Art. Number |
|-------------|
| 3858627 |

| JUNCTION VS. DISTRIBUTION BOX



Junction Box Installation

- IP54 Seal
- Untested Connections
- Troubleshooting requires MultiMeter
- Many Components to Order and Track
- Increased Labor

Totals for 16 I/O Points:

Components = \$290.96

Min. Labor = 268

Total Cost = \$530.63



Distribution Box Installation

- IP67 Seal
- Factory Tested Connections
- LED Indicators for Easy Diagnostics
- Reduced Size for Compact Installations
- Reduced Components
- Label Plates
- Quick and Easy Installation

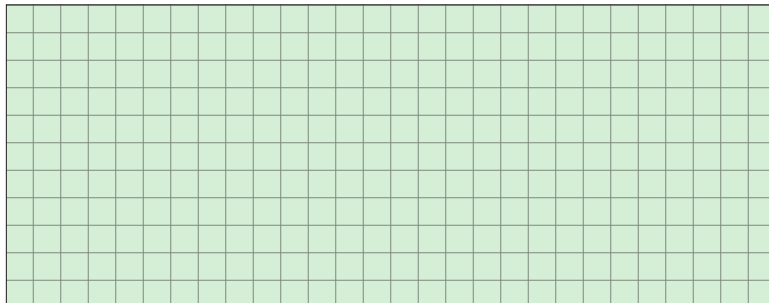
Totals for 16 I/O Points:

Components = \$303.88

Min. Labor = 12

Total Cost = \$308.88 - 42% Savings

|Notes:





CONNECTIVITY

In the field of sensor/actuator connectivity, Murrelektronik offers you an extremely wide range of cable types (PVC, PUR/PVC, PUR, Robotic and TPE) and colors (yellow, gray and black).



Our M8 and M12 round plugs are quick and easy to install. Murrelektronik's unique torque wrench ensures those connectors are tightened to precisely the right degree. Turn the wrench until it clicks and guarantee long-term, consistent connection quality with IP67 protection.

Valve connectors from Murrelektronik are designed for all types of valves, from A to CI. They are fitted with captive seals and have an integrated LED and protection circuit.



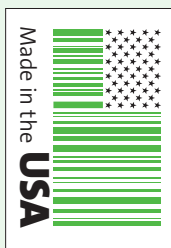
| SINGLE ENDED M12

| MALE STRAIGHT

| Poles | Jacket Color | Cable Type | Length | Art. Number | |
|--|--------------|----------------------|--------|--------------------|--------------------|
|  4 | Yellow | PVC | 5m | 7000-12021-0140500 | |
| | | | 10m | 7000-12021-0141000 | |
| | | | Gray | 3m | 7000-12021-2140300 |
| | | | | 5m | 7000-12021-2140500 |
| | | | | 10m | 7000-12021-2141000 |
| | Yellow | TPE 22AWG 300V | 5m | 7000-12021-2240500 | |
| | | | 10m | 7000-12021-2241000 | |
| | | TPE 18AWG 600V | 5m | 7000-12021-2241000 | |
| | | | 10m | 7000-12021-2241000 | |
| | | | 10m | 7000-12021-2241000 | |
|  5 | Yellow | PVC | 3m | 7000-12041-0150300 | |
| | | | 5m | 7000-12041-0150500 | |
| | | | 10m | 7000-12041-0151000 | |
| | | TPE 22AWG 300V | 3m | 7700-12041-U050300 | |
| | | | 5m | 7700-12041-U050500 | |
| | | | 10m | 7700-12041-U051000 | |
| | | TPE 18AWG 600V | 3m | 7700-12041-1610300 | |
| | | | 5m | 7700-12041-1610500 | |
| | | | 10m | 7700-12041-1611000 | |



| Cordsets by Murrelektronik



M8 or M12

Three Cable Colors

- Yellow
- Gray
- Black




Five Cable Types

- PVC
- PUR/PVC
- PUR
- Robotic
- TPE



MALE 90°





| Poles | Jacket Color | Cable Type | Length | Art. Number | |
|---|---|----------------------|----------------------|--------------------|--------------------|
|  | Yellow | PVC | 5m | 7000-12101-0140500 | |
| | | | 10m | 7000-12101-0141000 | |
| | Gray | | 5m | 7000-12101-2140500 | |
| | | | 10m | 7000-12101-2141000 | |
| |  | Yellow | TPE 22AWG 300V | 3m | 7700-12101-U040300 |
| | | | | 5m | 7700-12101-U040500 |
| 10m | | | | 7700-12101-U041000 | |
| TPE 18AWG 600V | | | 3m | 7700-12101-1500300 | |
| | | | 5m | 7700-12101-1500500 | |
| | | | 10m | 7700-12101-1501000 | |
|  | Yellow | PVC | 3m | 7000-12121-0150300 | |
| | | | 5m | 7000-12121-0150500 | |
| | | | 10m | 7000-12121-0151000 | |
| | | TPE 18AWG 600V | 3m | 7700-12121-1610300 | |
| | | | 5m | 7700-12121-1610500 | |
| | | | 10m | 7700-12121-1611000 | |

CABLE TYPES

| Properties | PVC (Type 1) | PUR/PVC (Type 2) | PUR (Type 3) | TPE | PUR (Type 5) |
|----------------------|---|--|---|---|--|
| Flame Retardant | ✓ | ✓ | ✓ | ✓ | ✓ |
| Chemical Resistant | ✓ | ✓ | ✓ | ✓ | ✓ |
| Oil Resistant | | ✓ | ✓ | ✓ | ✓ |
| Welding | | | | ✓ | ✓ |
| C-Track Flex Rating | | 2 million | 5 million | 10 million | 10 million |
| Torsion Rating | | | ±180° | ±180° | ±360° |
| UV Resistant | | | ✓ | ✓ | ✓ |
| Halogen Free | | | ✓ | | ✓ |
| Temperatures | -5 to 80°C 23 to 176°F | | -25 to 80°C -13 to 176°F | -40 to 105°C -40 to 221°F | -25 to 90°C -13 to 194°F |
| Application Examples | Packaging Food & Bev. Assembly & Production Lines | Packaging Handling Assembly & Production Lines | Machine Tools Swivel Tables Metal Cutting | Automotive Assembly & Production Lines | Machine Tools Industrial Robots Metal Cutting |

FEMALE STRAIGHT

| Poles | Jacket Color | Cable Type | Length | Art. Number |
|--|--------------|----------------------|--------------------|--------------------|
|  3 | Yellow | PVC | 5m | 7000-12181-0130500 |
| | | PUR/PVC | | 7000-12181-0230500 |
| | Gray | PVC | | 7000-12181-2130500 |
| | | PUR/PVC | | 7000-12181-2230500 |
|  4 | Yellow | PVC | 2m | 7000-12221-0140200 |
| | | | 5m | 7000-12221-0140500 |
| | | | 10m | 7000-12221-0141000 |
| | | | 15m | 7000-12221-0141500 |
| | | PUR/PVC | 5m | 7000-12221-0240500 |
| | | | 10m | 7000-12221-0241000 |
| | | PUR | 5m | 7000-12221-0340500 |
| | | | 10m | 7000-12221-0341000 |
| | | TPE 22AWG 300V | 1.5m | 7700-12221-U040150 |
| | | | 3m | 7700-12221-U040300 |
| | | | 5m | 7700-12221-U040500 |
| | | | 10m | 7700-12221-U041000 |
| | | TPE 18AWG 600V | 1.5m | 7700-12221-1500150 |
| | | | 3m | 7700-12221-1500300 |
| | | | 5m | 7700-12221-1500500 |
| | | | 10m | 7700-12221-1501000 |
| | Gray | PVC | 2m | 7000-12221-2140200 |
| | | | 5m | 7000-12221-2140500 |
| | | PUR/PVC | 10m | 7000-12221-2141000 |
| | | | 5m | 7000-12221-2240500 |
| Black | PVC | 10m | 7000-12221-2241000 | |
| | | 2m | 7000-12221-6140200 | |
| | | 5m | 7000-12221-6140500 | |
| | | | 10m | 7000-12221-6141000 |






Conversion Chart

| AWG | 30 | 28 | 26 | 24 | 22 | 21 | 20 |
|-----------------|-----|-----|-----|-----|-----|-----|----|
| mm ² | .05 | .08 | .14 | .25 | .34 | .38 | .5 |
| AWG | 18 | 17 | 16 | 14 | 12 | 10 | 8 |
| mm ² | .75 | 1 | 1.5 | 2.5 | 4 | 6 | 10 |

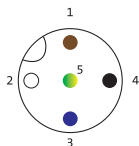
FEMALE STRAIGHT



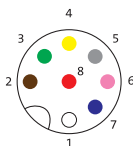
| Poles | Jacket Color | Cable Type | Length | Art. Number |
|--|--------------|----------------------|--------------------|--------------------|
|  5 | Yellow | PVC | 5m | 7000-12241-0150500 |
| | | | 10m | 7000-12241-0151000 |
| | | PUR/PVC | 5m | 7000-12241-0250500 |
| | | | 10m | 7000-12241-0251000 |
| | Gray | PVC | 5m | 7000-12241-2150500 |
| | | | 10m | 7000-12241-2151000 |
| | | PUR/PVC | 5m | 7000-12241-2250500 |
| | | | 10m | 7000-12241-2251000 |
| | Yellow | TPE 22AWG 300V | 3m | 7700-12241-U050300 |
| | | | 5m | 7700-12241-U050500 |
| 10m | | | 7700-12241-U051000 | |
| TPE 18 AWG 600V | | 3m | 7700-12241-1610300 | |
| | | 5m | 7700-12241-1610500 | |
| | | 10m | 7700-12241-1611000 | |
|  8 | Gray | PUR | 3m | 7000-17041-2920300 |
| | | | 5m | 7000-17041-2920500 |
| | | | 10m | 7000-17041-2921000 |
| | Yellow | TPE 22AWG 300V | 3m | 7700-17041-U0H0300 |
| | | | 5m | 7700-17041-U0H0500 |
| | | | 10m | 7700-17041-U0H1000 |
|  12 | Black | PVC | 3m | 7000-19041-7020300 |
| | | | 5m | 7000-19041-7020500 |
| | | | 10m | 7000-19041-7021000 |

M12 Pin & Wire Color Assignments



1. Brown (+24)
2. White (N/O)
3. Blue (-)
4. Black (N/C)
5. Green/Yellow - Earth Ground



1. White
2. Brown
3. Green
4. Yellow
5. Gray
6. Pink
7. Blue
8. Red






FEMALE 90°

| Poles | Jacket Color | Cable Type | Length | Art. Number |
|--|--------------|----------------------|--------------------|--------------------|
|  3 | Yellow | PVC | 5m | 7000-12321-0130500 |
| | | PUR/PVC | 5m | 7000-12321-0230500 |
| | Gray | PVC | 5m | 7000-12321-2130500 |
| | | | 10m | 7000-12321-2131000 |
| | | PUR/PVC | 5m | 7000-12321-2230500 |
|  4 | Yellow | PVC | 2m | 7000-12341-0140200 |
| | | | 5m | 7000-12341-0140500 |
| | | | 10m | 7000-12341-0141000 |
| | | PUR/PVC | 5m | 7000-12341-0240500 |
| | | | 10m | 7000-12341-0241000 |
| | | PUR | 5m | 7000-12341-0340500 |
| | | | 10m | 7000-12341-0341000 |
| | | TPE 22AWG 300V | 3m | 7700-12341-U040300 |
| | | | 5m | 7700-12341-U040500 |
| | | | 10m | 7700-12341-U041000 |
| | | TPE 18AWG 600V | 3m | 7700-12341-1500300 |
| | | | 5m | 7700-12341-1500500 |
| | 10m | | 7700-12341-1501000 | |
| | Gray | PVC | 2m | 7000-12341-2140200 |
| | | | 5m | 7000-12341-2140500 |
| | | | 10m | 7000-12341-2141000 |
| | | PUR/PVC | 5m | 7000-12341-2240500 |
| | 10m | | 7000-12341-2241000 | |
| | Black | PVC | 2m | 7000-12341-6140200 |
| | | | 5m | 7000-12341-6140500 |
| 10m | | | 7000-12341-6141000 | |
| PUR | | 5m | 7000-12341-6340500 | |
| | | | 10m | 7000-12341-6341000 |



FEMALE 90°



| Poles | Jacket Color | Cable Type | Length | Art. Number |
|---|--------------|----------------------|--------------------|--------------------|
|  5 | Yellow | PVC | 5m | 7000-12361-0150500 |
| | | | 10m | 7000-12361-0151000 |
| | Gray | | 3m | 7000-12361-2150300 |
| | | | 5m | 7000-12361-2150500 |
| | | | 10m | 7000-12361-2151000 |
| | Yellow | TPE 18AWG 600V | 5m | 7000-12361-2250500 |
| 10m | | | 7000-12361-2251000 | |
| 3m | | | 7700-12361-1610300 | |
|  8 | Gray | PUR | 3m | 7000-17061-2950300 |
| | | | 5m | 7000-17061-2950500 |
| | | | 10m | 7000-17061-2951000 |
| | Yellow | TPE 22AWG 300V | 3m | 7700-17061-U0H0300 |
| | | | 5m | 7700-17061-U0H0500 |
| | | | 10m | 7700-17061-U0H1000 |
|  12 | Black | PUR | 3m | 7000-19061-7050300 |
| | | | 5m | 7000-19061-7050500 |
| | | | 10m | 7000-19061-7051000 |

M12 LED FEMALE 90°



| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------------------------|--------------|------------|--------|--------------------|
| 3 with 2 x LED (PNP) | Yellow | PVC | 3m | 7000-12381-0130300 |
| | | | 5m | 7000-12381-0130500 |
| | | | 10m | 7000-12381-0131000 |
| 4 with 2 x LED (PNP) | | | 3m | 7000-12421-0140300 |
| | | | 5m | 7000-12421-0140500 |
| | | | 10m | 7000-12421-0141000 |
| 5 with 3 x LED (PNP) | | | 3m | 7000-12441-0150300 |
| | | | 5m | 7000-12441-0150500 |
| | | | 10m | 7000-12441-0151000 |

| DOUBLE ENDED M12

| MALE STRAIGHT to FEMALE STRAIGHT

| Poles | Jacket Color | Cable Type | Length | Art. Number |
|----------------------|--------------|----------------------|--------------------|--------------------|
| 4 | Yellow | PVC | .6m | 7000-40021-0140060 |
| | | | 1m | 7000-40021-0140100 |
| | | | 2m | 7000-40021-0140200 |
| | | | 3m | 7000-40021-0140300 |
| | | | 5m | 7000-40021-0140500 |
| | | | 10m | 7000-40021-0141000 |
| | Gray | PUR/PVC | .6m | 7000-40021-2240060 |
| | | | 1m | 7000-40021-2240100 |
| | | | 2m | 7000-40021-2240200 |
| | | | 3m | 7000-40021-2240300 |
| | | | 5m | 7000-40021-2240500 |
| | | | PUR | .6m |
| | 1m | 7000-40021-2340100 | | |
| | 2m | 7000-40021-2340200 | | |
| | 3m | 7000-40021-2340300 | | |
| | 5m | 7000-40021-2340500 | | |
| | Yellow | TPE 22AWG 300V | | .6m |
| | | | 1m | 7700-40021-U040100 |
| 2m | | | 7700-40021-U040200 | |
| 3m | | | 7700-40021-U040300 | |
| 5m | | | 7700-40021-U040500 | |
| 10m | | | 7700-40021-U041000 | |
| TPE 18AWG 600V | | .6m | 7700-40021-1500060 | |
| | | 1m | 7700-40021-1500100 | |
| | | 2m | 7700-40021-1500200 | |
| | | 3m | 7700-40021-1500300 | |
| | | 5m | 7700-40021-1500500 | |
| | | 10m | 7700-40021-1501000 | |
| 5 | Yellow | TPE 18AWG 600V | 1m | 7700-40041-1610100 |
| | | | 2m | 7700-40041-1610200 |
| | | | 3m | 7700-40041-1610300 |
| | | | 5m | 7700-40041-1610500 |
| | | | 10m | 7700-40041-1611000 |



MALE STRAIGHT to FEMALE 90°



| Poles | Jacket Color | Cable Type | Length | Art. Number | |
|-------|--------------|----------------------|----------------------|--------------------|--------------------|
| 4 | Yellow | PVC | .3m | 7000-40121-0140030 | |
| | | | .6m | 7000-40121-0140060 | |
| | | | 1m | 7000-40121-0140100 | |
| | | | 1.5m | 7000-40121-0140150 | |
| | | | 2m | 7000-40121-0140200 | |
| | | | 5m | 7000-40121-0140500 | |
| | Gray | PUR/PVC | .6m | 7000-40121-2240060 | |
| | | | 1m | 7000-40121-2240100 | |
| | | | 2m | 7000-40121-2240200 | |
| | | | 3m | 7000-40121-2240300 | |
| | | | 5m | 7000-40121-2240500 | |
| | | PUR | .3m | 7000-40121-2340030 | |
| | | | .6m | 7000-40121-2340060 | |
| | | | 1m | 7000-40121-2340100 | |
| | | | 1.5m | 7000-40121-2340150 | |
| | Yellow | TPE 22AWG 300V | 2m | 7000-40121-2340200 | |
| | | | 3m | 7000-40121-2340300 | |
| | | | 5m | 7000-40121-2340500 | |
| | | | 10m | 7700-40121-U041000 | |
| | | | TPE 18AWG 600V | .6m | 7700-40121-U040060 |
| | | | | 1m | 7700-40121-U040100 |
| 2m | | 7700-40121-U040200 | | | |
| 3m | | 7700-40121-U040300 | | | |
| 5m | | 7700-40121-U040500 | | | |
| 10m | | 7700-40121-1501000 | | | |

MALE 90° to FEMALE STRAIGHT



| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------|--------------|----------------------|--------|--------------------|
| 4 | Yellow | TPE 22AWG 300V | .6m | 7700-40201-U040060 |
| | | | 1m | 7700-40201-U040100 |
| | | | 2m | 7700-40201-U040200 |
| | | | 3m | 7700-40201-U040300 |
| | | | 5m | 7700-40201-U040500 |
| | | TPE 18AWG 600V | .6m | 7700-40201-1500060 |
| | | | 1m | 7700-40201-1500100 |
| | | | 2m | 7700-40201-1500200 |
| | | | 3m | 7700-40201-1500300 |
| | | | 5m | 7700-40201-1500500 |

MALE 90° to FEMALE 90°



| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------|--------------|----------------------|--------|--------------------|
| 4 | Yellow | TPE 22AWG 300V | 1m | 7700-40261-U040100 |
| | | | 2m | 7700-40261-U040200 |
| | | | 3m | 7700-40261-U040300 |
| | | | 5m | 7700-40261-U040500 |
| | | TPE 18AWG 600V | 1m | 7700-40261-1500100 |
| | | | 2m | 7700-40261-1500200 |
| | | | 3m | 7700-40261-1500300 |
| | | | 5m | 7700-40261-1500500 |

M12 MALE STRAIGHT to M8 FEMALE STRAIGHT



| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------|--------------|----------------------|--------|--------------------|
| 3 | Yellow | TPE 22AWG 300V | 1m | 7700-40561-U030100 |
| | | | 2m | 7700-40561-U030200 |
| | | | 3m | 7700-40561-U030300 |

TORQUE WRENCH



YouTube

Murrelektronik's unique torque wrench ensures connectors are tightened to precisely the right degree. Turn the wrench until it clicks and guarantee long-term, consistent connection quality with IP67 protection.

M8 TORQUE WRENCH

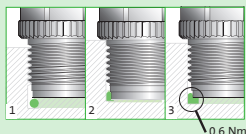
Art. No. 7000-99101-0000000

M12 TORQUE WRENCH

Art. No. 7000-99102-0000000

Mini (7/8") TORQUE WRENCH

Art. No. 7000-99105-0000000




The practical torque wrench connects all Murrelektronik M8 & M12 connectors simply and tightly, leaving no room for error.

1. Connector is not screwed tight. Medium can penetrate between connector and O-ring.
2. Connector is screwed too tight. O-ring is destroyed and medium can penetrate between connector and O-ring.
3. M12 connector is best tightened to 0.6 Nm. **Then it's sealed tight!**


| SINGLE ENDED M8

| MALE STRAIGHT

| Poles | Jacket Color | Cable Type | Length | Art. Number |
|---|--------------|------------|--------------------|--------------------|
|  3 | Yellow | PVC | 5m | 7000-08001-0100500 |
| | Gray | | .6m | 7000-08001-2100060 |
| | | | 1.5m | 7000-08001-2100150 |
| | | | 3m | 7000-08001-2100300 |
| | PUR/PVC | 5m | 7000-08001-2100500 | |
| | | | 7000-08001-2300500 | |
| | PUR | 10m | 7000-08001-2301000 | |
| 4 | Yellow | PVC | 5m | 7000-08011-0110500 |
| | Gray | | | 7000-08011-2110500 |



| FEMALE STRAIGHT

| Poles | Jacket Color | Cable Type | Length | Art. Number |
|--|--------------|------------|--------------------|--------------------|
|  3 | Yellow | PVC | 3m | 7000-08041-0100300 |
| | | | 5m | 7000-08041-0100500 |
| | | 10m | 7000-08041-0101000 | |
| | Gray | PUR/PVC | 5m | 7000-08041-0200500 |
| | | | | 7000-08041-0300500 |
| | | PVC | 10m | 7000-08041-2100500 |
| | | | | 7000-08041-2101000 |
| | | PUR/PVC | 3m | 7000-08041-2200300 |
| | | | 5m | 7000-08041-2200500 |
| | | | 10m | 7000-08041-2201000 |
| | | PUR | 3m | 7000-08041-2300300 |
| | | | 5m | 7000-08041-2300500 |
| | 10m | | 7000-08041-2301000 | |
| Black | PVC | 5m | 7000-08041-6100500 | |
| | | 10m | 7000-08041-6101000 | |
| | PUR/PVC | 5m | 7000-08041-6200500 | |
| 7000-08041-6300500 | | | | |
| 4 | Yellow | PVC | 5m | 7000-08061-0110500 |
| | Gray | | | 7000-08061-2110500 |
| | | | | PUR/PVC |



♀ FEMALE 90°



| Poles | Jacket Color | Cable Type | Length | Art. Number |
|-------|--------------------|------------|--------------------|--------------------|
| | Yellow | PVC | 3m | 7000-08081-0100300 |
| | | | 5m | 7000-08081-0100500 |
| | | | 10m | 7000-08081-0101000 |
| | Gray | | 5m | 7000-08081-2100500 |
| | | | 10m | 7000-08081-2101000 |
| | | | Black | 5m |
| 10m | 7000-08081-6101000 | | | |
| 3 | Gray | PUR/PVC | 5m | 7000-08081-2200500 |
| 4 | Yellow | PVC | | 7000-08101-0110500 |
| | Gray | | 7000-08101-2110500 | |

♂ DOUBLE ENDED M8

♂ 3-pole MALE STRAIGHT to FEMALE STRAIGHT



| Cable Type | Jacket Color | Length | Art. Number |
|---------------|--------------|--------------------|--------------------|
| PVC | Yellow | .3m | 7000-88001-0100030 |
| | | .6m | 7000-88001-0100060 |
| | | 1m | 7000-88001-0100100 |
| | | 1.5m | 7000-88001-0100150 |
| | | 2m | 7000-88001-0100200 |
| PUR/PVC | | .3m | 7000-88001-0200030 |
| | | .6m | 7000-88001-0200060 |
| | | 1m | 7000-88001-0200100 |
| | | 1.5m | 7000-88001-0200150 |
| | | 2m | 7000-88001-0200200 |
| High Flex PUR | | 3m | 7000-88001-0200300 |
| | | 1m | 7000-88001-0300100 |
| | | 1.5m | 7000-88001-0300150 |
| PUR/PVC | | 2m | 7000-88001-0300200 |
| | | 5m | 7000-88001-0300500 |
| | Gray | .3m | 7000-88001-2200030 |
| | | .6m | 7000-88001-2200060 |
| | | 1m | 7000-88001-2200100 |
| 1.5m | | 7000-88001-2200150 | |
| 2m | | 7000-88001-2200200 | |
| | | 5m | 7000-88001-2200500 |

| 3-pole M8 MALE STRAIGHT to M12 FEMALE STRAIGHT

| Cable Type | Jacket Color | Length | Art. Number |
|------------|--------------|--------|--------------------|
| PUR/PVC | Gray | .3m | 7000-88241-2200030 |
| | | .6m | 7000-88241-2200060 |
| | | 1m | 7000-88241-2200100 |
| | | 1.5m | 7000-88241-2200150 |
| | | 2m | 7000-88241-2200200 |



| 3-pole M8 MALE STRAIGHT to M8 FEMALE 90°

| Cable Type | Jacket Color | Length | Art. Number |
|------------|--------------|--------|--------------------|
| PVC | Yellow | .6m | 7000-88021-0100060 |
| | | 1m | 7000-88021-0100100 |
| | | 2m | 7000-88021-0100200 |
| PUR | | 1m | 7000-88021-0300100 |
| | | 1.5m | 7000-88021-0300150 |
| | | 2m | 7000-88021-0300200 |
| PUR/PVC | Gray | .3m | 7000-88021-2200030 |
| | | .6m | 7000-88021-2200060 |
| | | 1m | 7000-88021-2200100 |
| | | 1.5m | 7000-88021-2200150 |
| | | 2m | 7000-88021-2200200 |
| | | 3m | 7000-88021-2200300 |



| 3-pole M8 MALE STRAIGHT to M12 FEMALE 90°

| Cable Type | Jacket Color | Length | Art. Number |
|------------|--------------|--------|--------------------|
| PUR/PVC | Gray | .3m | 7000-88261-2200030 |
| | | .6m | 7000-88261-2200060 |
| | | 1m | 7000-88261-2200100 |
| | | 1.5m | 7000-88261-2200150 |
| | | 2m | 7000-88261-2200200 |



BULK CABLE



| | | | |
|-----------------------|--------------------|------------------------------|--------------------|
| Art. Number | 7000-C0101-0100000 | 7000-C0101-0140000 | 7000-C0101-2140000 |
| Poles | 3 | 4 | |
| Cable Type | PVC | | |
| Length | 100m | | |
| Outer Diameter | approx. 4.5mm | approx. 5.0mm | |
| Wire Diameter | .25mm ² | .34mm ² (Class 5) | |
| Jacker Color | Yellow | | Gray |

RECEPTACLES

M12 FRONT MOUNT (Mounting Nut Included)



| Type | Poles | Cable Length | Art. Number |
|--------|-------|--------------|--------------------|
| Male | 4 | .2m | 7000-13502-9710020 |
| Female | | | 7000-13542-9710020 |
| Male | 5 | | 7000-13522-9720020 |
| Female | | | 7000-13562-9720020 |

M8 FRONT MOUNT (Mounting Nut Included)



| Type | Poles | Cable Length | Art. Number |
|--------|-------|--------------|--------------------|
| Male | 3 | .2m | 7000-08553-9700020 |
| Female | | | 7000-08573-9700020 |
| Male | 4 | | 7000-08563-9690020 |
| Female | | | 7000-08583-9690020 |

M12 REAR MOUNT (Mounting Nut Included)



| Type | Poles | Cable Length | Art. Number |
|--------|-------|--------------|--------------------|
| Male | 4 | .2m | 7000-13505-9710020 |
| Female | | | 7000-13545-9710020 |
| Male | 5 | | 7000-13525-9720020 |
| Female | | | 7000-13565-9720020 |
| Male | 8 | | 7000-17165-9730020 |
| Female | | | 7000-17185-9730020 |
| Male | 12 | | 7000-19165-9790020 |
| Female | | | 7000-19185-9790020 |

| Mini (7/8") 3-pole, Receptacle, 1/2" NPT, PVC, IEC Colors

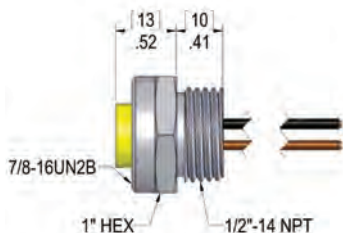
| | | L = .5m | L = 2m |
|------------------------|------------|----------------|----------------|
| Gender | Wire Gauge | Article Number | Article Number |
| Male (Ext.) Straight | 16AWG | MURE-3MR-0.5M | MURE-3MR-2M |
| Female (Int.) Straight | 16AWG | MURE-3FR-0.5M | MURE-3FR-2M |

| Mini (7/8") 4-pole, Receptacle, 1/2" NPT, PVC, IEC Colors

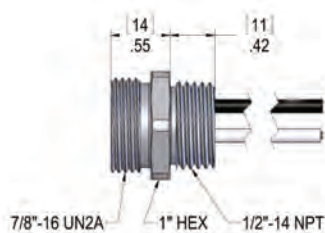
| | | L = .5m | L = 2m |
|------------------------|------------|----------------|----------------|
| Gender | Wire Gauge | Article Number | Article Number |
| Male (Ext.) Straight | 16AWG | MURC-4MR-0.5M | MURC-4MR-2M |
| Female (Int.) Straight | 16AWG | MURC-4FR-0.5M | MURC-4FR-2M |

| Mini (7/8") 5-pole, Receptacle, 1/2" NPT, PVC, IEC Colors

| | | L = .5m | L = 2m |
|------------------------|------------|----------------|----------------|
| Gender | Wire Gauge | Article Number | Article Number |
| Male (Ext.) Straight | 16AWG | MURE-5MR-0.5M | MURE-5MR-2M |
| Female (Int.) Straight | 16AWG | MURE-5FR-0.5M | MURE-5FR-2M |



Female (Int.) Straight



Male (Ext.) Straight

FIELD WIREABLE CONNECTORS

M12 IDC



| Pole | Wire Diameter (AWG) | Art. Number |
|-----------------|-----------------------------------|--------------------|
| 3-pole (Male) | .25 - .5mm ² (24 - 20) | 7000-12461-0000000 |
| 4-pole (Male) | | 7000-12481-0000000 |
| 3-pole (Female) | | 7000-12581-0000000 |
| 4-pole (Female) | | 7000-12601-0000000 |

M12 IDC 90°



| Pole | Wire Diameter (AWG) | Art. Number |
|-----------------|-----------------------------------|--------------------|
| 3-pole (Male) | .25 - .5mm ² (24 - 20) | 7000-12541-0000000 |
| 4-pole (Male) | | 7000-12561-0000000 |
| 3-pole (Female) | | 7000-12661-0000000 |
| 4-pole (Female) | | 7000-12681-0000000 |

M12 SCREW TERMINAL



| Pole | Wire Diameter (AWG) | Art. Number |
|-----------------|-----------------------------|--------------------|
| 4-pole (Male) | max .75mm ² (18) | 7000-12701-0000000 |
| 5-pole (Male) | | 7000-12721-0000000 |
| 4-pole (Female) | | 7000-12901-0000000 |
| 4-pole (Male) | | 7000-12741-0000000 |
| 5-pole (Male) | | 7000-12761-0000000 |
| 5-pole (Female) | | 7000-12961-0000000 |
| 8-pole (Female) | max .5mm ² (20) | 7000-17321-0000000 |

M12 SCREW TERMINAL 90°



| Pole | Wire Diameter (AWG) | Art. Number |
|-----------------|-----------------------------|--------------------|
| 4-pole (Male) | max .75mm ² (18) | 7000-12821-0000000 |
| 5-pole (Male) | | 7000-12841-0000000 |
| 4-pole (Female) | | 7000-12981-0000000 |
| 5-pole (Female) | | 7000-13001-0000000 |

M12 SCREW TERMINAL Y-CONNECTOR



| Pole | Wire Diameter (AWG) | Art. Number |
|---------------|-------------------------|--------------------|
| 4-pole (Male) | .75mm ² (18) | 7000-12781-0000000 |
| 5-pole (Male) | | 7000-12801-0000000 |

| IDC: Insulation Displacement Connectors

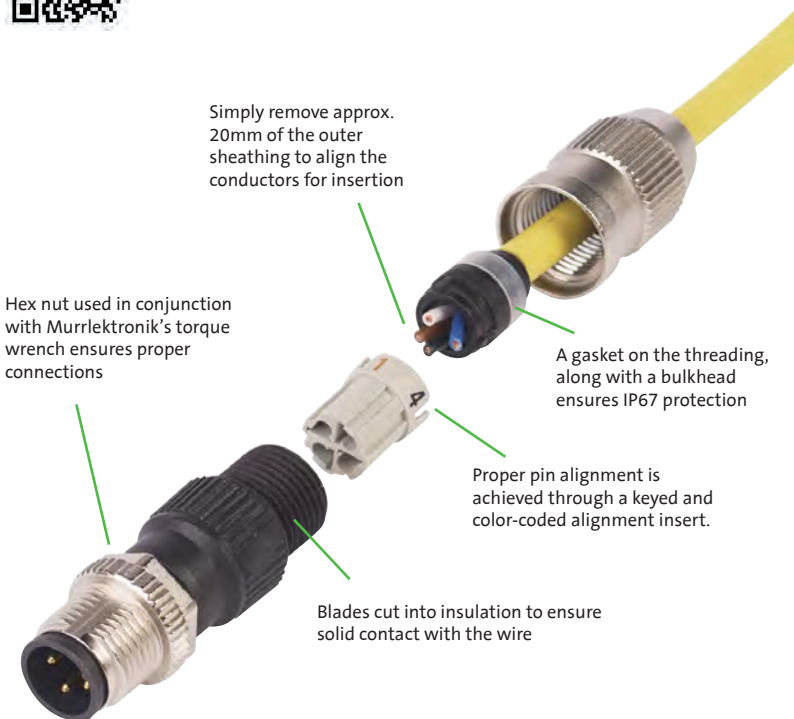
Murrelektronik's Insulation Displacement Connectors (IDC) are a fast and easy way to terminate cables with either M8 or M12 connections. These robust connectors are rated to IP67 and can stand up to tough industrial environments.

With minimal tools needed, these connectors are the fastest way to terminate a cable to a connector. IDC products from Murrelektronik take less than 50% of the time it takes to install a traditional screw terminal connector. With razor style blades in the base to make the actual connection to the wire, the IDC connector makes connections easy: simply tighten the strain relief, by hand, with minimal force. No more force is needed than it takes to re-tighten a drink cap.



You 

Scan the QR code to visit our YouTube® channel, Murrelektronik, and watch our video on assembling an IDC.



| M8 IDC STRAIGHT



| Pole | Wire Diameter (AWG) | Art. Number |
|---------------|-----------------------------------|--------------------|
| 3-pole (Male) | .25 - .5mm ² (24 - 20) | 7000-08321-0000000 |
| 4-pole (Male) | | 7000-08341-0000000 |

| M8 IDC STRAIGHT



| | |
|---------------------|------------------------------------|
| Art. Number | 7000-08331-0000000 |
| Pole | 3-pole (Male) |
| Wire Diameter (AWG) | .14 - .34mm ² (26 - 22) |

| M8 IDC STRAIGHT



| Pole | Wire Diameter (AWG) | Art. Number |
|-----------------|-----------------------------------|--------------------|
| 3-pole (Female) | .25 - .5mm ² (24 - 20) | 7000-08361-0000000 |
| 4-pole (Female) | | 7000-08381-0000000 |

| M8 SCREW TERMINAL STRAIGHT



| Pole | Wire Diameter (AWG) | Art. Number |
|---------------|-----------------------------------|--------------------|
| 3-pole (Male) | .14 - .5mm ² (26 - 20) | 7000-08601-0000000 |
| 4-pole (Male) | | 7000-08611-0000000 |

| M8 SCREW TERMINAL STRAIGHT



| Pole | Wire Diameter (AWG) | Art. Number |
|-----------------|-----------------------------------|--------------------|
| 3-pole (Female) | .14 - .5mm ² (26 - 20) | 7000-08621-0000000 |
| 4-pole (Female) | | 7000-08631-0000000 |

T-SPLITTER

M12-M12



| | | |
|-----------------|-------------------|-----------------------------|
| Art. Number | 7000-41121-000000 | 7000-41181-000000 |
| Pole | 5 | |
| Circuit Diagram | | |
| Circuit | Standard | Standard with Signal Bridge |

M12-M12 (Slim Line) with Fixed Coupling Nut



| | | | |
|-----------------|-------------------|-----------------------------|-------------------|
| Art. Number | 7000-41131-000000 | 7000-41191-000000 | 7000-41135-000000 |
| Pole | 5 | | 5 with LED |
| Circuit Diagram | | | |
| Circuit | Standard | Standard with Signal Bridge | Standard with LED |

M12-M8 (Slim Line)



| | | |
|-----------------|-------------------|-------------------|
| Art. Number | 7000-41211-000000 | 7000-41231-000000 |
| Pole | 4 | 3 |
| Circuit Diagram | | |
| Circuit | Standard | Parallel |

HOW TO SPLIT SIGNALS

- Optimum number of connection points
- I/O ports using two signals



- Pluggable on both sides
- I/O ports using two signals



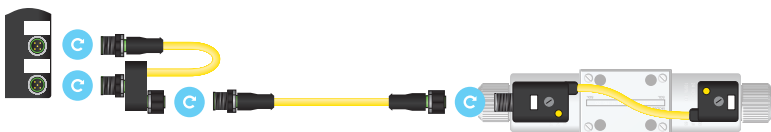
- Pluggable on both sides
- I/O ports using two signals
- Easy cable installation
- Optimum number of connection points



- I/O ports using two signals
- Easy cable installation



- Pluggable on both sides
- I/O ports using two signals
- Easy cable installation
- Optimum number of connection points



- I/O ports using one signal
- Easy cable installation
- Pluggable on both sides

| MINI (7/8") SINGLE ENDED CABLE

| FEMALE STRAIGHT



| Poles | Cable Type | Length | Jacket Color | Art. Number |
|-------|------------|--------|--------------------|--------------------|
| 3 | TPE | 1.5m | Yellow | 7700-A3021-U1B0150 |
| | | 3m | | 7700-A3021-U1B0300 |
| | | 5m | | 7700-A3021-U1B0500 |
| | | 10m | | 7700-A3021-U1B1000 |
| | PVC | 1.5m | | 7700-A3021-UBB0150 |
| | | 3m | | 7700-A3021-UBB0300 |
| | | 5m | | 7700-A3021-UBB0500 |
| | | 10m | | 7700-A3021-UBB1000 |
| 4 | TPE | 1.5m | | 7700-A4021-U1C0150 |
| | | 3m | | 7700-A4021-U1C0300 |
| | | 5m | | 7700-A4021-U1C0500 |
| | | 10m | | 7700-A4021-U1C1000 |
| | PVC | 1.5m | | 7700-A4021-UBC0150 |
| | | 3m | | 7700-A4021-UBC0300 |
| | | 5m | | 7700-A4021-UBC0500 |
| | | 10m | | 7700-A4021-UBC1000 |
| 5 | TPE | 1.5m | 7700-A5021-U1D0150 | |
| | | 3m | 7700-A5021-U1D0300 | |
| | | 5m | 7700-A5021-U1D0500 | |
| | | 10m | 7700-A5021-U1D1000 | |
| | PVC | 1.5m | 7700-A5021-UBD0150 | |
| | | 3m | 7700-A5021-UBD0300 | |
| | | 5m | 7700-A5021-UBD0500 | |
| | | 10m | 7700-A5021-UBD1000 | |

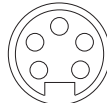
| PIN OUTS



3-Pole



4-Pole



5-Pole

| FEMALE 90°

| Poles | Cable Type | Length | Jacket Color | Art. Number |
|-------|------------|--------|--------------|--------------------|
| 3 | TPE | 1.5m | Yellow | 7700-A3031-U1B0150 |
| | | 3m | | 7700-A3031-U1B0300 |
| | | 5m | | 7700-A3031-U1B0500 |
| | | 10m | | 7700-A3031-U1B1000 |
| | PVC | 1.5m | | 7700-A3031-UBB0150 |
| | | 3m | | 7700-A3031-UBB0300 |
| | | 5m | | 7700-A3031-UBB0500 |
| | | 10m | | 7700-A3031-UBB1000 |
| 4 | TPE | 1.5m | | 7700-A4031-U1C0150 |
| | | 3m | | 7700-A4031-U1C0300 |
| | | 5m | | 7700-A4031-U1C0500 |
| | | 10m | | 7700-A4031-U1C1000 |
| | PVC | 1.5m | | 7700-A4031-UBC0150 |
| | | 3m | | 7700-A4031-UBC0300 |
| | | 5m | | 7700-A4031-UBC0500 |
| | | 10m | | 7700-A4031-UBC1000 |
| 5 | TPE | 1.5m | | 7700-A5031-U1D0150 |
| | | 3m | | 7700-A5031-U1D0300 |
| | | 5m | | 7700-A5031-U1D0500 |
| | | 10m | | 7700-A5031-U1D1000 |
| | PVC | 1.5m | | 7700-A5031-UBD0150 |
| | | 3m | | 7700-A5031-UBD0300 |
| | | 5m | | 7700-A5031-UBD0500 |
| | | 10m | | 7700-A5031-UBD1000 |



| COLOR CODE

3-pole

1. Green
2. Black
3. White

4-pole

1. Black
2. White
3. Red
4. Green

5-pole

1. White
2. Red
3. Green
4. Orange
5. Black

| MINI (7/8") DOUBLE ENDED CABLE

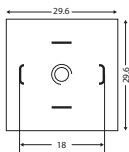
| MALE STRAIGHT TO FEMALE STRAIGHT



| Poles | Cable Type | Length | Jacket Color | Art. Number |
|-------|------------|--------------------|--------------------|--------------------|
| 3 | TPE | .3m | Yellow | 7700-A3A01-U1B0030 |
| | | .6m | | 7700-A3A01-U1B0060 |
| | | 1m | | 7700-A3A01-U1B0100 |
| | | 2m | | 7700-A3A01-U1B0200 |
| | | 3m | | 7700-A3A01-U1B0300 |
| | | 5m | | 7700-A3A01-U1B0500 |
| | | 10m | | 7700-A3A01-U1B1000 |
| | PVC | 1.5m | | 7700-A3A01-UBB0150 |
| | | 3m | | 7700-A3A01-UBB0300 |
| | | 5m | | 7700-A3A01-UBB0500 |
| 10m | | 7700-A3A01-UBB1000 | | |
| 4 | TPE | .3m | | 7700-A4A01-U1C0030 |
| | | .6m | | 7700-A4A01-U1C0060 |
| | | 1m | | 7700-A4A01-U1C0100 |
| | | 2m | | 7700-A4A01-U1C0200 |
| | | 3m | | 7700-A4A01-U1C0300 |
| | | 5m | | 7700-A4A01-U1C0500 |
| | | 10m | | 7700-A4A01-U1C1000 |
| | PVC | 1.5m | | 7700-A4A01-UBC0150 |
| | | 3m | | 7700-A4A01-UBC0300 |
| | | 5m | 7700-A4A01-UBC0500 | |
| 10m | | 7700-A4A01-UBC1000 | | |
| 5 | TPE | .3m | 7700-A5A01-U1D0030 | |
| | | .6m | 7700-A5A01-U1D0060 | |
| | | 1m | 7700-A5A01-U1D0100 | |
| | | 2m | 7700-A5A01-U1D0200 | |
| | | 3m | 7700-A5A01-U1D0300 | |
| | | 5m | 7700-A5A01-U1D0500 | |
| | | 10m | 7700-A5A01-U1D1000 | |
| | PVC | 1.5m | 7700-A5A01-UBD0150 | |
| | | 3m | 7700-A5A01-UBD0300 | |
| | | 5m | 7700-A5A01-UBD0500 | |
| 10m | | 7700-A5A01-UBD1000 | | |

| VALVE CONNECTORS

| FORM A (18mm) Molded Cable, Flying Leads



| 24V AC/DC WITH LED

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 3m | Gray | 7000-18001-2160300 |
| | 5m | | 7000-18001-2160500 |

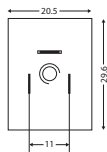
| 24V AC/DC WITH LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 1.5m | Yellow | 7000-18021-0160150 |
| | 3m | | 7000-18021-0160300 |
| | 5m | | 7000-18021-0160500 |
| | 1.5m | Gray | 7000-18021-2160150 |
| | 3m | | 7000-18021-2160300 |
| | 5m | | 7000-18021-2160500 |
| | 10m | | 7000-18021-2161000 |
| | 3m | Black | 7000-18021-6160300 |
| | 5m | | 7000-18021-6160500 |

| 110V AC/DC WITH LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 1.5m | Yellow | 7000-18041-0160150 |
| | 3m | | 7000-18041-0160300 |
| | 5m | | 7000-18041-0160500 |
| | 1.5m | Gray | 7000-18041-2160150 |
| | 3m | | 7000-18041-2160300 |
| | 5m | | 7000-18041-2160500 |
| | 10m | | 7000-18041-2161000 |
| | 3m | Black | 7000-18041-6160300 |
| | 5m | | 7000-18041-6160500 |

| FORM BI (11mm) Molded Cable, Flying Leads



| 0-230V AC/DC, WITHOUT LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 3m | Gray | 7000-11061-2160300 |
| | 5m | | 7000-11061-2160500 |
| | 3m | Black | 7000-11061-6160300 |

| 24V AC/DC, LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 3m | Gray | 7000-11021-2160300 |
| | 5m | | 7000-11021-2160500 |
| | 10m | | 7000-11021-2161000 |
| | 3m | Black | 7000-11021-6160300 |
| | 5m | | 7000-11021-6160500 |

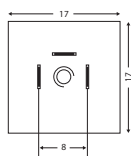
| 110V AC/DC WITH LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 3m | Gray | 7000-11041-2160300 |
| | 5m | | 7000-11041-2160500 |
| | 10m | | 7000-11041-2161000 |
| | 3m | Black | 7000-11041-6160300 |
| | 5m | | 7000-11041-6160500 |

| 24V AC/DC, LED, SUPPRESSION, 180°, PE OPPOSITE CABLE ENTRY

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 3m | Gray | 7000-11081-2160300 |
| | 5m | | 7000-11081-2160500 |
| | 10m | | 7000-11081-2161000 |
| | 5m | Black | 7000-11081-6160500 |

| FORM C (8mm) Molded Cable, Flying Leads



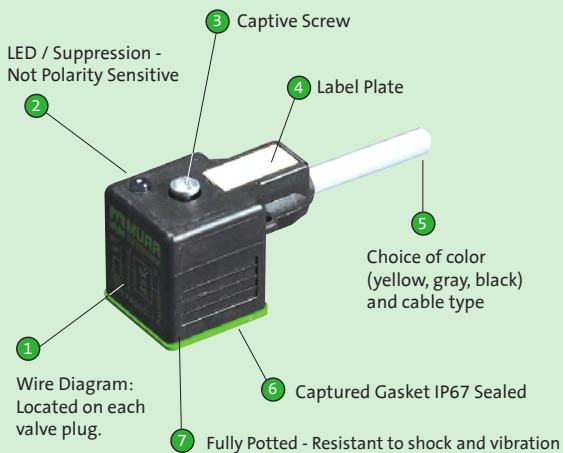
| 24V AC/DC WITH LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 3m | Gray | 7000-80021-2160300 |
| | 5m | | 7000-80021-2160500 |
| | 10m | | 7000-80021-2161000 |

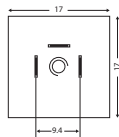
| 110V AC/DC WITH LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 3m | Gray | 7000-80041-2160300 |
| | 5m | | 7000-80041-2160500 |
| | 10m | | 7000-80041-2161000 |

What makes a Murrelektronik Valve Plug
a Murrelektronik Valve Plug...



| FORM CI (9.4mm) Molded Cable, Flying Leads



| 0-230V AC/DC, WITHOUT ELECTRONICS

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 3m | Gray | 7000-94061-2160300 |
| | 5m | | 7000-94061-2160500 |
| | 1.5m | Black | 7000-94061-6160150 |
| | 3m | | 7000-94061-6160300 |
| | 5m | | 7000-94061-6160500 |

| 24V AC/DC, LED ONLY

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 1.5m | Gray | 7000-94001-2160150 |
| | 1.5m | Black | 7000-94001-6160150 |
| | 3m | | 7000-94001-6160300 |

| 24V AC/DC WITH LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 1.5m | Gray | 7000-94021-2160150 |
| | 3m | | 7000-94021-2160300 |
| | 5m | | 7000-94021-2160500 |
| | 3m | Black | 7000-94021-6160300 |
| | 5m | | 7000-94021-6160500 |

| 110V AC/DC WITH LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 1.5m | Gray | 7000-94041-2160150 |
| | 3m | | 7000-94041-2160300 |
| | 5m | | 7000-94041-2160500 |
| | 1.5m | Black | 7000-94041-6160150 |
| | 3m | | 7000-94041-6160300 |
| | 5m | | 7000-94041-6160500 |

| VALVE CONNECTORS

| FORM A (18mm) to MALE M12 STRAIGHT
24V AC/DC with LED & SUPPRESSION



| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PUR/PVC | .6m | Gray | 7000-40881-2260060 |
| | 1m | | 7000-40881-2260100 |
| | 1.5m | | 7000-40881-2260150 |
| | 2m | | 7000-40881-2260200 |

FORM CI (9.4mm) to MALE M12 STRAIGHT
24V AC/DC with LED & SUPPRESSION

| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | .3m | Yellow | 7000-41041-0160030 |
| | 1m | | 7000-41041-0160100 |
| PUR/PVC | .3m | Gray | 7000-41041-2260030 |
| | .6m | | 7000-41041-2260060 |
| PVC | .6m | Black | 7000-41041-6160060 |
| | 1m | | 7000-41041-6160100 |

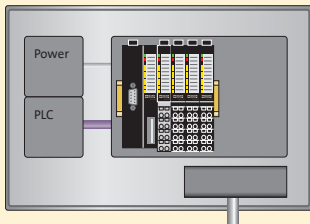
FORM CI (9.4mm) to MALE M8 STRAIGHT
24V AC/DC with LED & SUPPRESSION



| Cable Type | Cable Length | Jacket Color | Art. Number |
|------------|--------------|--------------|--------------------|
| PVC | 2m | Yellow | 7000-88415-0130200 |
| PUR/PVC | 2m | Gray | 7000-88415-2230200 |

CONNECTION EFFICIENCY

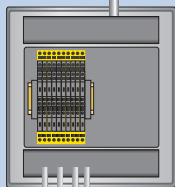
I/O Level



Time: 16min
 Total Wiring Points: 6
 Panel Entry Point: 1
 Total Connection Points: 0
 Labor Cost: \$14.67

Choose Your Wiring Method

Field Level

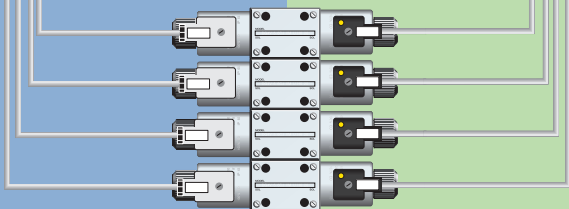


- IP54 Seal
- Untested Connections
- Troubleshooting requires MultiMeter
- Many Components to Order & Track
- Increased Labor



- IP67 Seal
- Factory Tested Connections
- LED Indicators for Easy Diagnostics
- Reduced size for Compact Installations
- Reduced # of Components
- Label Plates
- Quick & Easy Installation

Device Level



Wiring Effort: High
 Time to Install: 66 min
 Total Wiring Points: 22
 Panel Entry Points: 5
 Total Connection Points: 4
 Labor Cost: \$56.83

Wiring Effort: Low
 Time to Install: 4 min
 Total Wiring Points: 0
 Panel Entry Points: 0
 Total Connection Points: 8
 Labor Cost: \$1.67

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your system partner

Murrelektronik

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HMI 2014 - Murrelektronik fights the installation costs
1,136 views · 1 month ago

This year it's all about installation costs! Of course it's no surprise that conventional wiring takes longer than connecting pre-wired cables. But did you really know how big is the difference? Murrelektronik has a lot more ideas like this that can save you time and money - just by choosing the right product.

Dieses Jahr dreht sich alles um die Installationskosten. Natürlich überrascht es...
[Read more](#)

English

HMI 2014 - Murrelektronik The new Murrelektronik Murrelektronik Miro BT - Wireless Sig

Related channels YouTube

- Video shop
- ABB Robotics
- Schneider
- Festo Automation
- Siemens
- Bosch Rexroth

Our YouTube® channel, Murrelektronik, has grown quite a bit since it was first introduced. Our content has more than doubled to include videos on products like our torque wrench, MIRO GSM and MICO+ as well as videos describing our company and test center. To see some of the products from this brochure in action, scan the appropriate QR code below.



About Murr



MICO



IDC



Torque Wrench



stay connected

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| COMMENTS

By releasing this catalog all information/details from previous versions will expire.

The drawings, diagrams, dimensions, weight and/or ratings printed in this catalog are only binding when specifically agreed upon. Murrelektronik reserves the right to alter and deviate from the printed data. The customer is responsible for making sure that the ordered components/equipment are suitable for the planned application.

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Fifth Edition: May 2018



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