



MURRELEKTRONIK ESSENTIALS

System Basics at a Glance



stay connected





Welcome!

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 the most commonly ordered items. We have a wide variety of shipping options available to expedite orders and reduce costly inventory storage at our customers production facilities.

Ask your sales representative how these services can 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

Control Cabinet

Filters • EMC Suppressors • Relays
Optocouplers • Power Supplies • Micro
Switches

Pages 5 - 16

Interfaces

Modlink • Modlight

Pages 17 - 19

IO Solutions

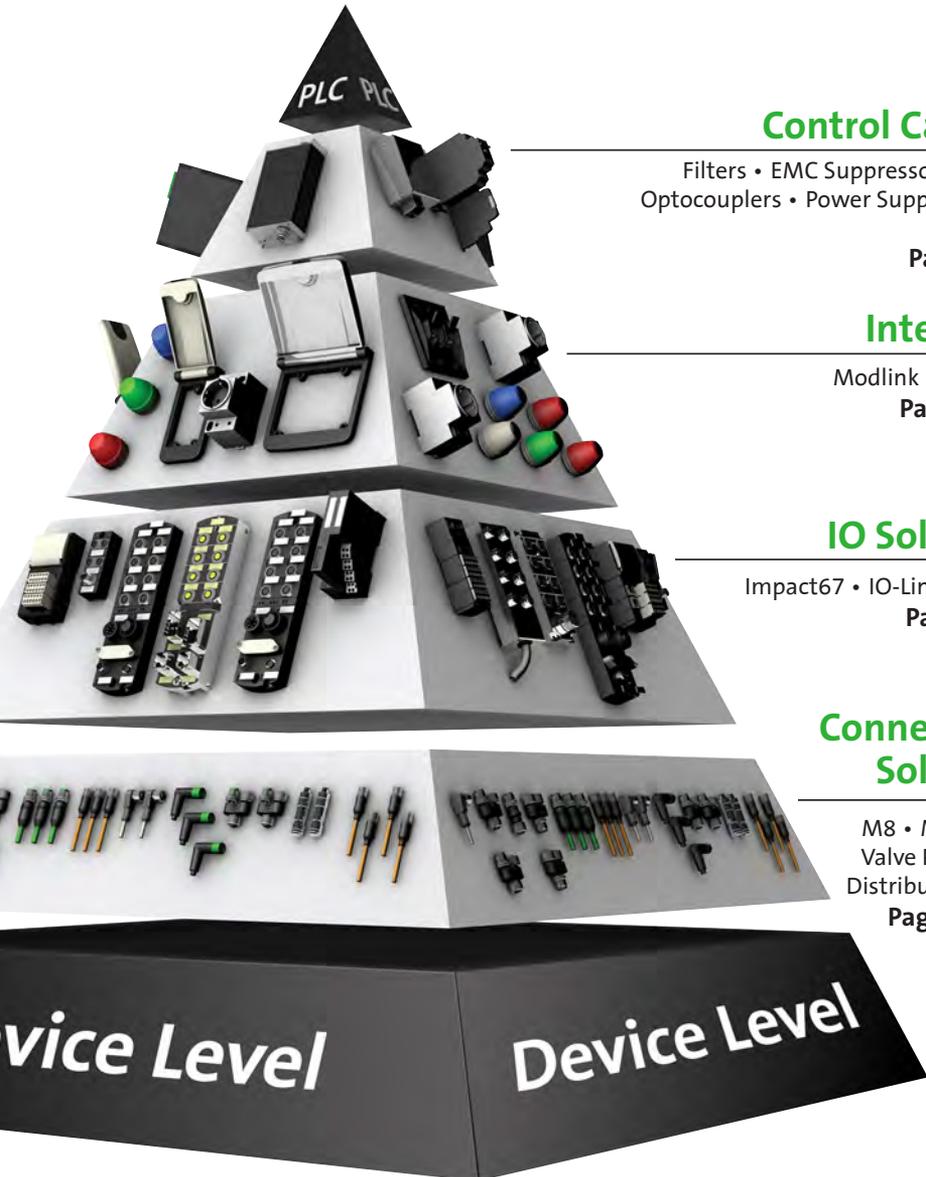
Impact67 • IO-Link Products

Page 20 - 21

Connectivity Solutions

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

Pages 22 - 60



Point to Point

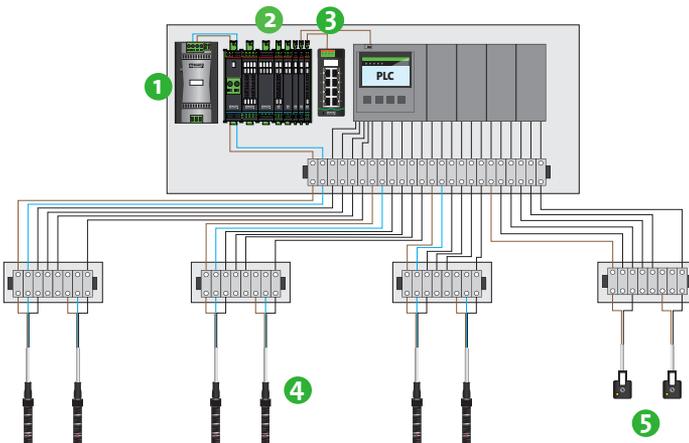
Wiring concepts with a central control cabinet provide a lot of flexibility and are easier to design. However, the wiring efforts are high. That makes it a system prone to errors. Accessory parts, large control cabinets and comprehensive planning efforts often mean indirect costs are high, reducing the cost-effectivity.

PROS

- Doesn't require advanced training for installation or maintenance
- Shorter response time

CONS

- High installation costs
- Longer assembly times
- Harder to troubleshoot
- High risk of wiring errors
- Takes up more space and consumes more power
- Difficult to separate for transportation



1. Emparro Single Phase - pg 6
2. Mico Pro - pg 14
3. Ethernet Switch - pg 15
4. Sensor Cable - pg 30
5. Valve Plugs - pg 55

Passive

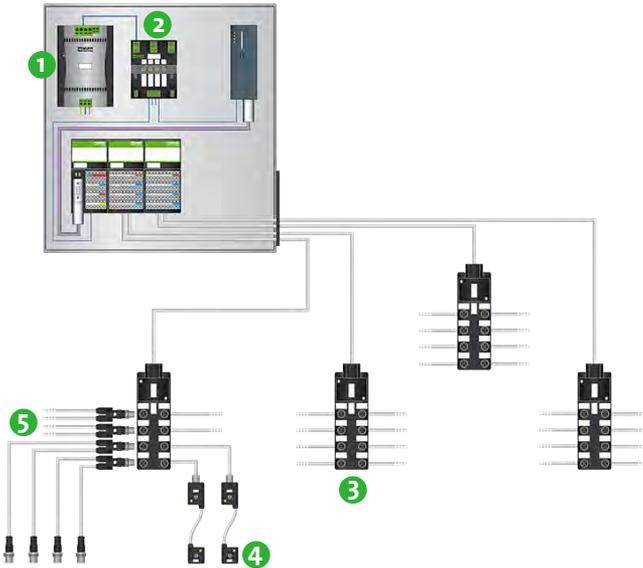
The passive concept optimizes I/O wiring by using pre-wired connectors and passive distribution boxes. There are significantly fewer termination points. LEDs on the connection points facilitate troubleshooting. The risk of wiring errors is reduced, but not eliminated.

PROS

- Low material costs
- Using homerun cables makes running cables easy
- Wide range of products

CONS

- Medium amount of wiring
- Takes up more space and consumes more power
- Still prone to human/installation errors
- No field level diagnostics



1. Emparrio Single Phase - pg 6
2. Mico - pg 10
3. Exact12 - pg 23
4. Double Valve Plug - pg 60
5. Y cable - pg 43

Active

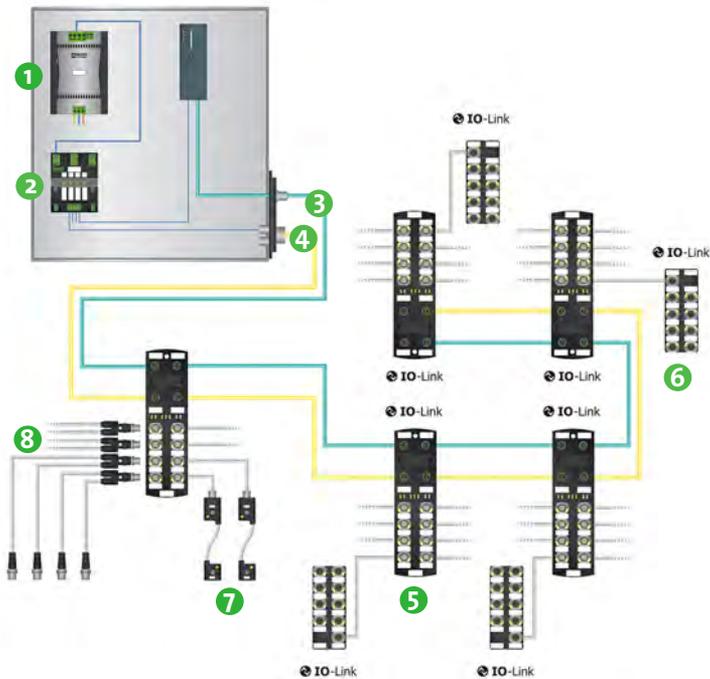
The active concept requires a minimum amount of wiring and does not need configuration. Good diagnostics support setup and troubleshooting. Using single ended cordsets provides maximum flexibility when wiring the I/O points.

PROS

- Star, linear, & tree topologies
- Comprehensive diagnostics
- Easy to integrate into the control
- Smaller control cabinet
- Minimal risk of wiring errors

CONS

- Higher initial hardware costs



1. Emparro Single Phase - pg 6
2. Mico - pg 10
3. Ethernet Cable - pg 44
4. L-code M12 Power - pg 51
5. Impact67 Pro - pg 20
6. IO-Link Hub - pg 21
7. Double Valve Plug - pg 60
8. Y cable - pg 43



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



For more information about the products featured in this section, scan the QR code.



EMPARRO CAP BUFFER MODULE



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



Emparro

- 50% Power Boost for up to 4 sec.
- Metal housing with optimum EMC characteristics
- No derating from -40° 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
- 50% power boost for up to 4 seconds

Preventative Diagnostics

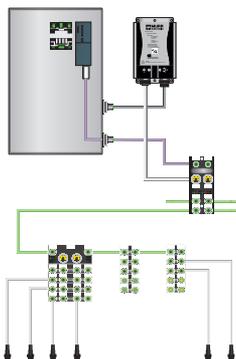
The 40A Emparro 3-phase continuously monitors parameters including temperature, load and number of starts. It sends a message when it is time for it to be replaced so that replacement can be done during the next scheduled service. This helps to reduce unplanned downtimes.

THREE PHASE 5-20A 24-28V DC

Art. Number	Input Voltage inc. Tolerance	Output Voltage	Dimension (HxWxD)
85690	3 x 324-572V AC or 3 x 450-745V DC	24 - 28V DC 5A	123 x 50 x 138mm
85691		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 at 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	Connection	
9000-11112-1862020	90-265V AC/V DC	24V DC 3.8A	In: 3p 7/8" Male Out: 4p 7/8" Fem	PELV
9000-11112-1962020		24V DC 4A	In: 3p 7/8" Male Out: 5p 7/8" Fem	SELV/PELV*
9000-11112-2062020		24V DC 8A		

Emparro67 Hybrid



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	Connection	
85676	90-265V AC/V DC	24V DC 10A	In: 3p 7/8" Male Out: 5p 7/8" Fem	SELV/PELV*
85677			In: 3p 7/8" Male Out: 4p 7/8" Fem	
85678			In: 3p 7/8" Male Out: L-code M12	
85679		24V DC 2 x 3.8A	In: 3p 7/8" Male Out: 4p 7/8" Fem	PELV

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



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

* For PELV requirements according to EN60204-1 §6.4.1: Connect either + or - terminal to protective earth (PE)



FOCUS ON THE ESSENTIALS

Eco-Rail 2 power supplies offer machine and control cabinet manufacturers a flexible and economical way to meet customer needs. These power supplies provide basic functionality and help keep overall control cabinet costs down.

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



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		

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	1 C/O contact	24V DC	250V AC 6A
52001		24V AC/DC	
52002	1 N/O contact	24V DC	
52015		24V AC/DC	
52030	1 C/O contact	110V AC/DC	
52040		230V AC/DC	
52050		12V DC	



OPTOCOUPLER - Solid State Switching

Art. Number	Type	Input Voltage	Max. Switching Voltage
52500	.5A	24V DC	5 - 48V DC
52501	2A		
52502		5V DC	
52507	.5A	230V AC	
52520	10A	24V DC	
3000-32512-2100040	6A		3 - 30V DC



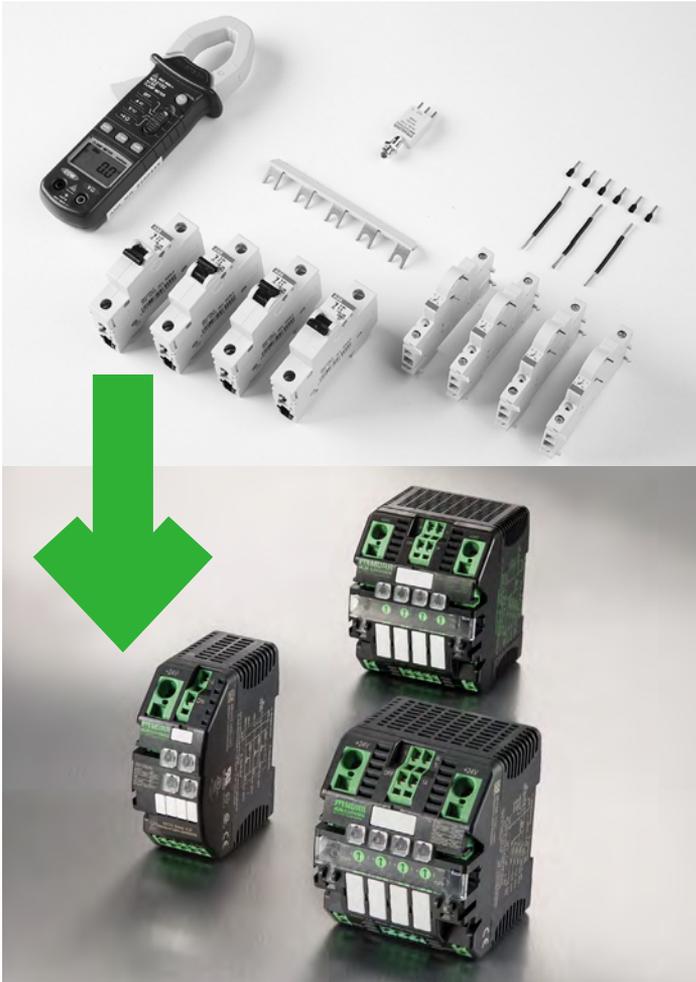
MULTI-FUNCTION TIMER

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: Intelligent Power Distribution

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



MICO CLASSIC

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

MICO BASIC

Art. Number	Nominal Input Voltage	Channels	Current Range (Preset)		Dimension (HxWxD)
9000-41064-0200000	24V DC - Min. 10A, Max. 8A	4	2A		90 x 35 x 80mm
9000-41064-0400000	24V DC - Min. 10A, Max. 16A		4A		
9000-41064-0600000	24V DC - Min. 10A, Max. 24A		6A		
9000-41068-0200000	24V DC - Min. 10A, Max. 16A	8	2A		90 x 70 x 80mm
9000-41068-0400000	24V DC - Min. 10A, Max. 32A		4A		
9000-41068-0600000	24V DC - Min. 10A, Max. 48A		6A		
9000-41068-0200600	24V DC - Min. 10A, Max. 28A		5 x 2A	3 x 6A	

 Models with NEC Class 2 Certification



Ethernet Switches

Tree Unmanaged - Metal Housing

Art. Number	58174
Number of Ports	16
Transfer Rate	10/100/1000Mbit
Dimension (HxWxD)	145 x 45 x 113mm



Tree PoE - Metal Housing

Art. Number	58193
Number of Ports	8 (8 PoE)
Transfer Rate	10/100/1000Mbit
Dimension (HxWxD)	145 x 57.8 x 113 mm



IP7 Tree Unmanaged - Metal Housing

Art. Number	58160	58161
Number of Ports	4	8
Transfer Rate	10/100 Mbit full duplex	
Dimension (HxWxD)	95 x 55 x 31mm	145 x 55 x 31mm



Xelity® - IP20 Unmanaged



Art. Number	58810	58811	58812
Number of Ports	4	6	8
Transfer Rate	10/100Mbit/s full duplex		
Dimension (HxWxD)	140 x 30 x 85.1mm		105 x 41.6 x 85.1mm

Art. Number	58813	58814	58815
Number of Ports	4	6	8
Transfer Rate	1000Mbit/s		
Dimension (HxWxD)	140 x 30 x 85.1mm		105 x 41.6 x 85.1mm

Xelity® - IP20 Managed



Art. Number	58820	58822	58824
Number of Ports	4 x RJ45	6 x RJ45	8 x RJ45
Transfer Rate	1000Mbit/s		
Dimension (HxWxD)	140 x 30 x 85.1mm	105 x 41.6 x 85.1mm	140 x 30 x 85.1mm

Xelity® - IP67 Unmanaged



Art. Number	58840	58842	58844
Number of Ports	10x M12, D-coded	2x M12 X-coded, 8x M12 D-coded	10x M12, X-coded
Supply	2x M12 Power 4-pole, L-coded 2 x max 16 A		
Transfer Rate	10/100Mbit/s full/half duplex	10/100/1000 Mbit/s full/half duplex	
Dimension (HxWxD)	224.5 x 63 x 37.4mm		

Art. Number	58850	58852	58854
Number of Ports	10x M12, D-coded	2x M12 X-coded, 8x M12 D-coded	10x M12, X-coded
Supply	2x M12 Power 5-pole, L-coded 2 x max 16 A		
Transfer Rate	10/100Mbit/s full/half duplex	10/100/1000 Mbit/s full/half duplex	
Dimension (HxWxD)	224.5 x 63 x 37.4mm		



Modlink MSDD - Programming Port

Single part number ordering for our most common combinations is available for Modlink. Consult the table below to find the article numbers for our most popular single and double frame sets.



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

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

Comlight56

The Comlight56 IO-Link version is equipped with an IO-Link interface. The IO-Link interface allows the user to adjust the lights - changing colors, adjusting timing, counting on/off cycles - through the PLC. Just like a standard Comlight56 these are compact, low energy LED lights. There is even a model with a buzzer and nine selectable tones for applications that require an audible signal

Description	Article Number
IOL LED	4000-76056-0000001
IOL LED/Buzzer	4000-76056-0000002
IOL LED/Touch Sensor	4000-76056-0000003
IOL LED/Buzzer/Touch Sensor	4000-76056-0000004
Mounting Adapter	4000-76056-0000903



Modlight

Murrelektronik's Modlight Pro LED stack lights bring flexibility to your installations. The lights, available in five colors, can be combined as the user sees fit. An audible signal can also be integrated using the signal tower with a buzzer element.

Modlight 30	
Description	Article Number
Modlight30 Set (Base + Red, Amber & Green Lights)	4000-75324-5310000
Mounting Adapter for Modlight30	4000-75030-0000903
Modlight 70	
Description	Article Number
Buzzer Module	4000-76070-1100004
Base with 3-pole M12 Side Connection (IO-Link Compatible)	4000-76070-1400015
Red Light	4000-76070-1011000
Amber Light	4000-76070-1012000
Green Light	4000-76070-1013000
Blue Light	4000-76070-1014000
Clear Light	4000-76070-1015000
Mounting Adapter	4000-75070-0000904



IMPACT67 - IP67 Remote IO

IMPACT67 Pro is the latest addition to Murrelektronik's IP67 rated I/O system. Each block is equipped with eight IO-Link master ports. The L-coded M12 ports allow for daisy-chaining and provide up to 2 x 16 A power.

By taking full advantage of IO-Link capabilities, the system makes it easy to get the needed input and output data from your machines and systems. With our IO-Link hubs and analog converters, you can easily connect digital and analog signals to the IO-Link master using a standard sensor cable. This not only reduces your cabling effort but also simplifies commissioning, service and diagnostics.



EtherNet/IP

EtherCAT



	ProfiNet DIO8 IOL8 5P	Ethernet/IP DIO8 IOL8 5P	EtherCAT DIO8 IOL8 5P
Article Number	54630	54631	54632
Output			
Act. Supply (UA)	24 V DC (EN 61131-2), max. 10 A Port X0...X7		
Input			
Type	for 3-wire sensors/mechanical switches, PNP, IO-Link Devices		
IO-Link			
Specification	IO-Link Master V1.1.3		
Port Class	8 x configurable A or B		
Process Data	up to 32 Byte (In) and 32 Byte (Out) per IO-Link port		
Transfer Rate	COM1; COM2; COM3 (automatic)		
Connections			
Fieldbus	Ethernet 10/100 Mbit/s; M12, D-coded		
Supply (L-coded M12 Power, 2 x max. 16A)	5-pole		
I/O Ports (A-coded M12)	5-pole		
Technical Data			
Temp. Range	-25 to 70°C		
Dimensions	225 x 63 x 43mm (H x W x D)		



IODD Management For Impact67

The use of an external software tool is needed to set the parameters of the IO-Link Device. The IODD file needs to be imported into this software tool before using with a PLC. Scan the QR code to get the IO-Link Tool:

IO-LINK HUBS

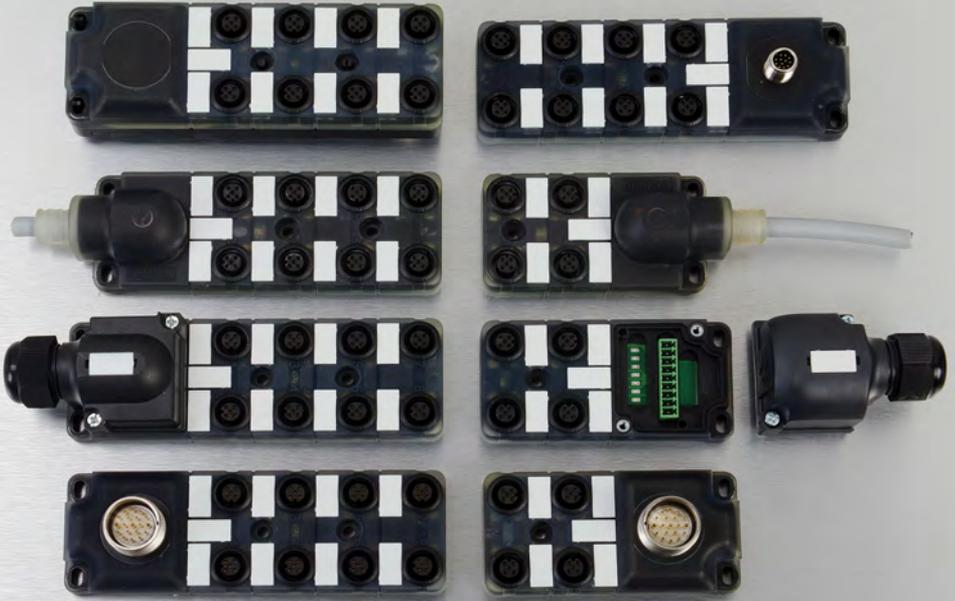
	D16	DIO16	DIO8 DIO8	DIO8	AI4	RTD4
Article No.	59710	59719	59718	59507	59840	59841
Type	Plug & Play				Configurable	
Connections						
IO-Link	M12 3-pole A-coded		M12 5-pole A-coded	M12 3-pole A-coded		
IO-Link						
Port Class	A		B	A		
Operating Modes	COM3 (230.4 kBaud)					
Input						
Switching Current (max.)	0.5A per port			1A per 2 ports		
Output						
Switching Current/ Output (max.)		0.5A / channel	2A / channel	0.5A / channel		
General Data						
Temp, Range	-25° to +70°C					
Protection	IP68					
Dimensions (HxWxD)	126 x 50 x 34.5mm			126 x 30 x 34.5mm		



IO-LINK ANALOG CONVERTER

	Measuring Ranges	Article Number
AI	0-20mA, 4-20mA, 0-10V, -10±10V	5000-00501-1300001
AO	0-20mA, 4-20mA, 0-10V, -10±10V	5000-00501-2300001
RTD	PT100, PT200, PT500, PT1000, 0 - 3000 Ohm	5000-00501-1500001
TH	Types K, N, J, E, R	5000-00501-1400001





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.

Scan the QR code below to learn more in our online shop.



EXACT12



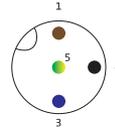
Signal Selection

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

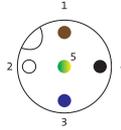
Cable

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

4 & 5-Pole Versions



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



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

EXACT8



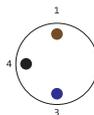
Signal Selection

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

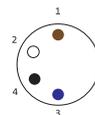
Cable

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

4 & 5-Pole Versions



1. Brown (+24)
3. Blue (-)
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		

THREADED HOME RUN



M12 MULTI POLE
Home Run Connector

Art. Number	8000-84470-0000000	8000-84560-0000000	8000-88460-0000000
Port	M12 4-port, 4-pole	M12 4-port, 5-pole	M12 8-port, 4-pole
Cable Type	8 pole, M12	12 pole, M12	

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	

See pages 36-39 for M8 cable options. See page 31 for Homerun cable.



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			

Distribution Box Accessories

M8 PORT PLUG



Art. Number
3858627

M12 PORT PLUG



Art. Number - Hex Nut
58627



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.





M12 Single Ended	30
M12 Double Ended	33
M8 Single Ended	35
M8 Double Ended	37
Torque Wrench	38
Ethernet	44
X-Coded M12	46
Mini (7/8")	48
L-Coded M12	51
Bulk Cable	54

Cordsets by Murrelektronik



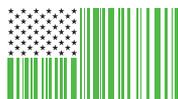
M8 or M12

Three Cable Colors

- Yellow
- Gray
- Black

Four Cable Types

- PVC
- Robotic
- PUR
- TPE



Made in the **USA**



Single Ended M12

MALE STRAIGHT



Poles	Jacket Color	Cable Type	Length	Art. Number
	Yellow	PVC	5m	7000-12021-0140500
	Gray		10m	7000-12021-0141000
3m			7000-12021-2140300	
5m			7000-12021-2140500	
10m			7000-12021-2141000	
	Yellow		PVC	3m
	Yellow	5m	7000-12041-0150500	
		10m	7000-12041-0151000	

MALE 90°



Poles	Jacket Color	Cable Type	Length	Art. Number
	Yellow	PVC	5m	7000-12101-0140500
	Gray		10m	7000-12101-0141000
5m			7000-12101-2140500	
10m			7000-12101-2141000	
3m			7000-12121-0150300	
	Yellow		PVC	5m
	Yellow	10m	7000-12121-0151000	

FEMALE STRAIGHT

Poles	Jacket Color	Cable Type	Length	Art. Number
3	Yellow	PVC	5m	7000-12181-0130500
	Gray	PVC		7000-12181-2130500
 4	Yellow	PVC	2m	7000-12221-0140200
			5m	7000-12221-0140500
			10m	7000-12221-0141000
			15m	7000-12221-0141500
		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	
	Gray	PVC	2m	7000-12221-2140200
			5m	7000-12221-2140500
			10m	7000-12221-2141000
Black		PVC	2m	7000-12221-6140200
			5m	7000-12221-6140500
			10m	7000-12221-6141000
 5	Yellow	PVC	5m	7000-12241-0150500
			10m	7000-12241-0151000
	Gray	PVC	5m	7000-12241-2150500
			10m	7000-12241-2151000
	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



FEMALE 90°

Poles	Jacket Color	Cable Type	Length	Art. Number
	Yellow	PVC	5m	7000-12321-0130500
	Gray	PVC	5m	7000-12321-2130500
10m			7000-12321-2131000	
	Yellow	PVC	2m	7000-12341-0140200
			5m	7000-12341-0140500
			10m	7000-12341-0141000
		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
Black	PVC	2m	7000-12341-6140200	
		5m	7000-12341-6140500	
	PUR	10m	7000-12341-6141000	
		5m	7000-12341-6340500	
10m	7000-12341-6341000			
	Yellow	PVC	5m	7000-12361-0150500
			10m	7000-12361-0151000
			Gray	3m
	5m	7000-12361-2150500		
	10m	7000-12361-2151000		
	Yellow	TPE 18AWG 600V	3m	7700-12361-1610300
			5m	7700-12361-1610500
			10m	7700-12361-1611000
	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
	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



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	.6m	7000-40021-2340060	
			1m	7000-40021-2340100	
			2m	7000-40021-2340200	
			3m	7000-40021-2340300	
	Yellow	TPE 22AWG 300V	.6m	7700-40021-U040060	
			1m	7700-40021-U040100	
			2m	7700-40021-U040200	
			3m	7700-40021-U040300	
			5m	7700-40021-U040500	
			10m	7700-40021-U041000	
	5	Yellow	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	
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	.3m	7000-40121-2340030
			.6m	7000-40121-2340060
			1m	7000-40121-2340100
			1.5m	7000-40121-2340150
	Yellow	TPE 22AWG 300V	.6m	7700-40121-U040060
			1m	7700-40121-U040100
			2m	7700-40121-U040200
			3m	7700-40121-U040300
			5m	7700-40121-U040500
		TPE 18AWG 600V	10m	7700-40121-U041000
			.6m	7700-40121-1500060
			1m	7700-40121-1500100
2m			7700-40121-1500200	
3m			7700-40121-1500300	
5m	7700-40121-1500500			
10m	7700-40121-1501000			

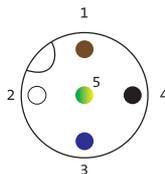


MALE 90° to FEMALE STRAIGHT

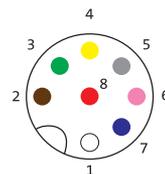
Poles	Jacket Color	Cable Type	Length	Art. Number
4	Yellow	TPE 22AWG 300V	.6m	7700-40201-U040060
			1m	7700-40201-U040100
			2m	7700-40201-U040200
			3m	7700-40201-U040300
			5m	7700-40201-U040500

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



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

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

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
	5m		7000-08001-2100500	
3		PUR	10m	7000-08001-2301000
4	Yellow	PVC	5m	7000-08011-0110500
	Gray			7000-08011-2110500



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	
 3	Yellow	PVC	3m	7000-08041-0100300	
			5m	7000-08041-0100500	
			10m	7000-08041-0101000	
	Gray	PUR	PVC	5m	7000-08041-0300500
				10m	7000-08041-2100500
		PUR	PVC	10m	7000-08041-2101000
				3m	7000-08041-2300300
				5m	7000-08041-2300500
				10m	7000-08041-2301000
	Black	PVC	5m	7000-08041-6100500	
10m			7000-08041-6101000		
3		PUR		7000-08041-6300500	
4	Yellow	PVC	5m	7000-08061-0110500	
	Gray			7000-08061-2110500	

FEMALE 90°



Poles	Jacket Color	Cable Type	Length	Art. Number
 3	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	7000-08081-6100500
			10m	7000-08081-6101000
4	Yellow	PVC	5m	7000-08101-0110500
	Gray			7000-08101-2110500

Cable Types

Properties	PVC	PUR (Type 3)	TPE	PUR (Type 5)
Flame Retardant	✓	✓	✓	✓
Chemical Resistant	✓	✓	✓	✓
Oil Resistant		✓	✓	✓
Welding			✓	✓
C-Track Flex Rating		10 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 & Prod. Lines	Mach. Tools Swivel Tables Metal Cutting	Automotive Assembly & Prod. Lines	Mach. Tools Ind. Robots Metal Cutting

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
High Flex PUR	Yellow	1m	7000-88001-0300100
		1.5m	7000-88001-0300150
		2m	7000-88001-0300200
		5m	7000-88001-0300500



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	Yellow	1m	7000-88021-0300100
		1.5m	7000-88021-0300150
		2m	7000-88021-0300200



3-pole M8 MALE STRAIGHT to M12 FEMALE STRAIGHT

Cable Type	Jacket Color	Length	Art. Number
PVC	Yellow	.3m	7000-88241-0100030
		.6m	7000-88241-0100060
		1m	7000-88241-0100100
		1.5m	7000-88241-0100150
		2m	7000-88241-0100200



3-pole M8 MALE STRAIGHT to M12 FEMALE 90°

Cable Type	Jacket Color	Length	Art. Number
PVC	Yellow	.3m	7000-88261-0100030
		.6m	7000-88261-0100060
		1m	7000-88261-0100100
		1.5m	7000-88261-0100150
		2m	7000-88261-0100200





Torque Wrench

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

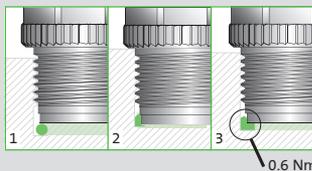
Art. No. 7000-99102-0000000

M12 Power TORQUE WRENCH

Art. No. 7000-99106-0000000

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!*

Receptacles

M12 FRONT MOUNT (Mounting Nut Included)

Type	Poles	Cable Length	Art. Number
Male	4	.5m	7000-13502-9710050
Female			7000-13542-9710050
Male	5		7000-13522-9720050
Female			7000-13562-9720050



M8 FRONT MOUNT (Mounting Nut Included)

Type	Poles	Cable Length	Art. Number
Male	3	.5m	7000-08553-9700050
Female			7000-08573-9700050
Male	4		7000-08563-9690050
Female			7000-08583-9690050



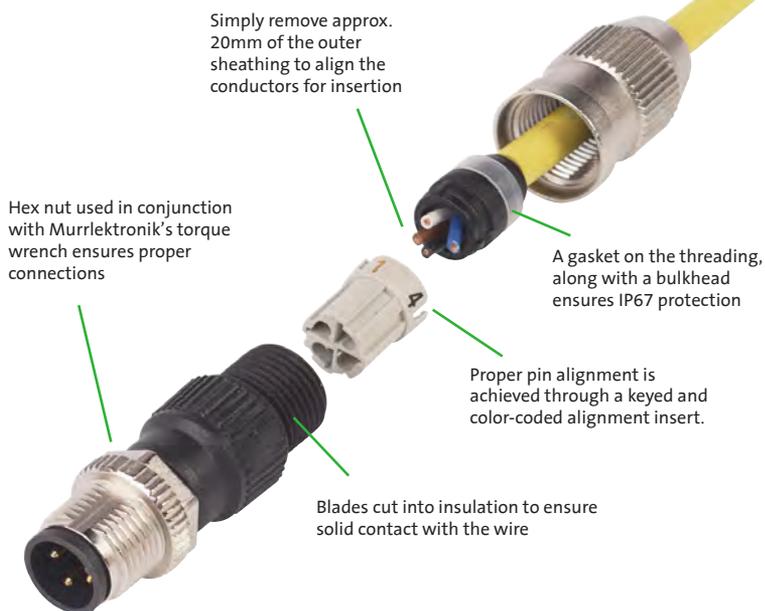
M12 REAR MOUNT (Mounting Nut Included)

Type	Poles	Cable Length	Art. Number
Male	4	.5m	7000-13505-9710050
Female			7000-13545-9710050
Male	5		7000-13525-9720050
Female			7000-13565-9720050
Male	8		7000-17165-9730050
Female			7000-17185-9730050
Male	12		7000-19165-9790050
Female			7000-19185-9790050



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.



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)	7000-12702-0000000
5-pole (Male)		7000-12722-0000000
4-pole (Female)		7000-12901-0000000
4-pole (Male)		7000-12741-0000000
5-pole (Male)		7000-12762-0000000
5-pole (Female)		7000-12962-0000000
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



M8 IDC STRAIGHT

Pole	Wire Diameter (AWG)	Art. Number
3-pole (Male)	.25 - .5mm ² (24 - 20)	7000-08325-0000000
3-pole (Female)		7000-08365-0000000
4-pole (Male)		7000-08345-0000000
4-pole (Female)		7000-08385-0000000
3-pole (Male)	.14 - .34mm ² (26 - 22)	7000-08331-0000000



M8 SCREW TERMINAL STRAIGHT

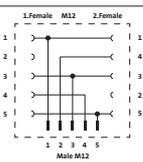
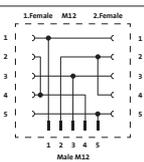
Pole	Wire Diameter (AWG)	Art. Number
3-pole (Male)	.14 - .5mm ² (26 - 20)	7000-08601-0000000
3-pole (Female)		7000-08621-0000000
4-pole (Male)		7000-08611-0000000
4-pole (Female)		7000-08631-0000000



T-Splitter

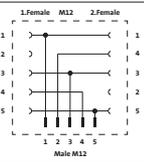
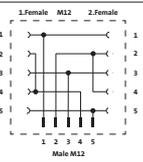
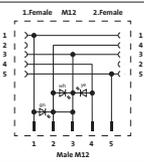
M12-M12



Art. Number	7000-41121-0000000	7000-41181-0000000
Pole	5	
Circuit Diagram		
Circuit	Standard	Standard with Signal Bridge

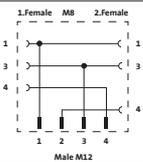
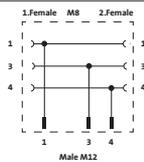
M12-M12 (Slim Line) with Fixed Coupling Nut



Art. Number	7000-41131-0000000	7000-41191-0000000	7000-41135-0000000
Pole	5		5 with LED
Circuit Diagram			
Circuit	Standard	Standard with Signal Bridge	Standard with LED

M12-M8 (Slim Line)



Art. Number	7000-41211-0000000	7000-41231-0000000
Pole	4	3
Circuit Diagram		
Circuit	Standard	Parallel

CAT5e Ethernet Cable

EtherNet/IP

EtherCAT

Modbus

PROFINET

M12 - M12



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

M12 - RJ45

Poles	Jacket Color	Cable Type	Length	Art. Number
4	Green	PUR (UL/CSA) Suitable for C-tracks	1.5m	7000-44711-7960150
			3m	7000-44711-7960300
			5m	7000-44711-7960500
			7.5m	7000-44711-7960750
			10m	7000-44711-7961000
		TPE c(UL)us ITC/PLTC AWM 80°C 600V	1.5m	7700-44711-S7V0150
			3m	7700-44711-S7V0300
			5m	7700-44711-S7V0500
			7.5m	7700-44711-S7V0750
			10m	7700-44711-S7V1000
8	Teal	TPE c(UL)us	1.5m	7700-44711-S4U0150
			3m	7700-44711-S4U0300
			5m	7700-44711-S4U0500
			7.5m	7700-44711-S4U0750
			10m	7700-44711-S4U1000
		Type CM AWM 80°C 600V	1.5m	7700-48521-S4W0150
			3m	7700-48521-S4W0300
			5m	7700-48521-S4W0500
			7.5m	7700-48521-S4W0750
			10m	7700-48521-S4W1000



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
		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	1.5m	7700-74301-S4U0150
			3m	7700-74301-S4U0300
			5m	7700-74301-S4U0500
			7.5m	7700-74301-S4U0750
			10m	7700-74301-S4U1000
		Type CM AWM 80°C 600V	1.5m	7700-74718-S4W0150
			3m	7700-74718-S4W0300
			5m	7700-74718-S4W0500
			7.5m	7700-74718-S4W0750
			10m	7700-74718-S4W1000



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

M12 X-coded 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-S4X0200
			5m	7700-51001-S4X0500
			10m	7700-51001-S4X1000

M12 - RJ45



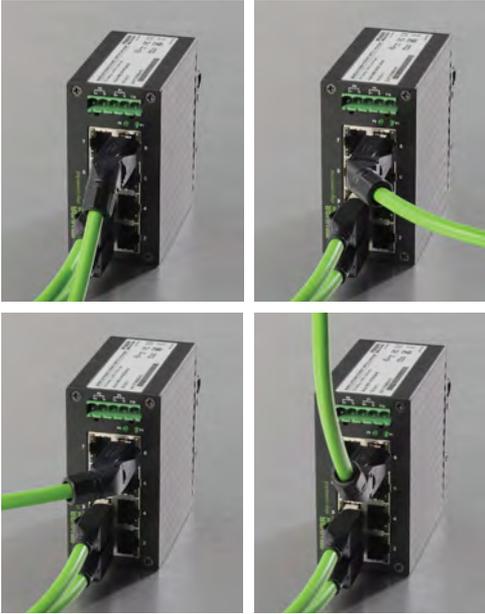
Poles	Jacket Color	Cable Type	Length	Art. Number
 8	Green	PUR (UL/CSA)	2m	7000-51101-7900200
			5m	7000-51101-7900500
			10m	7000-51101-7901000
	Teal	TPE c(UL)us	2m	7700-51101-S4X0200
			5m	7700-51101-S4X0500
			10m	7700-51101-S4X1000

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-S4X0100
			2m	7700-51551-S4X0200
			5m	7700-51551-S4X0500

RJ45 Pro - 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 & 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



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
4	TPE	1.5m		7700-A4021-U1C0150
		3m		7700-A4021-U1C0300
		5m		7700-A4021-U1C0500
		10m		7700-A4021-U1C1000
5	TPE	1.5m		7700-A5021-U1D0150
		3m		7700-A5021-U1D0300
		5m	7700-A5021-U1D0500	
		10m	7700-A5021-U1D1000	

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
4	TPE	1.5m		7700-A4031-U1C0150
		3m		7700-A4031-U1C0300
		5m		7700-A4031-U1C0500
		10m		7700-A4031-U1C1000
5	TPE	1.5m		7700-A5031-U1D0150
		3m		7700-A5031-U1D0300
		5m	7700-A5031-U1D0500	
		10m	7700-A5031-U1D1000	

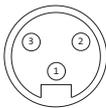
Mini (7/8") Double Ended Cable

MALE STRAIGHT TO FEMALE STRAIGHT

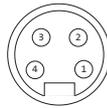
Poles	Cable Type	Length	Jacket Color	Art. Number
3	TPE	.3m	Yellow	7700-A3A01-U1B0030
		.6m		7700-A3A01-U1B0060
		1m		7700-A3A01-U1B0100
		2m		7700-A3A01-U1B0200
		3m		7700-A3A01-U1B0300
		5m		7700-A3A01-U1B0500
		10m		7700-A3A01-U1B1000
4	TPE	.3m		7700-A4A01-U1C0030
		.6m		7700-A4A01-U1C0060
		1m		7700-A4A01-U1C0100
		2m		7700-A4A01-U1C0200
		3m		7700-A4A01-U1C0300
		5m		7700-A4A01-U1C0500
		10m		7700-A4A01-U1C1000
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



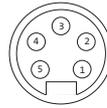
Pin Outs



3-Pole



4-Pole



5-Pole

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") Receptacles

3-pole, 1/2" NPT, PVC, IEC Colors

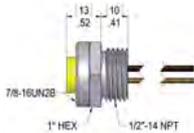
Gender	Wire Gauge	L = .5m	L = 2m
		Article Number	Article Number
Male (Ext.) Str.	16AWG	MURE-3MR-0.5M	MURE-3MR-2M
Female (Int.) Str.	16AWG	MURE-3FR-0.5M	MURE-3FR-2M

4-pole, 1/2" NPT, PVC, IEC Colors

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

5-pole, 1/2" NPT, PVC, IEC Colors

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



Female (Int.) Straight



Male (Ext.) Straight

Mini (7/8") T-Couplers



Description	Color	Article Number
5-pole T, Male (Ext.) / 2 x Female	Yellow	7700-A5T01-0000000
4-pole T, Male (Ext.) / 2 x Female	Yellow	7700-A4T01-0000000
3-pole T, Male (Ext.) / 2 x Female	Yellow	7700-A3T01-0000000
3-pole T, Male (Ext.) / 2 x Female	Red	7700-A3T05-0000000

Mini (7/8") Field Wireables

Poles	AWG Range	Cable O.D. Range	Female Straight (Female Threads)	Male Straight (Male Threads)
3	14-22	5 - 13mm	MUR-3FP-FW	MUR-3MPM-FW
4			MUR-4FP-FW	MUR-4MPM-FW
5			MUR-5FP-FW	MUR-5MPM-FW

L-coded M12 Power

MALE STRAIGHT

Poles	Cable Type	Length	Jacket Color	Art. Number
4	16AWG TPE	5m	Yellow	7700-P4101-U0C0500
		10m		7700-P4101-U0C1000
	14AWG TPE	5m		7700-P4101-U0N0500
		10m		7700-P4101-U0N1000
5	16AWG TPE	5m		7700-P4201-U0D0500
		10m		7700-P4201-U0D1000
	14AWG TPE	5m		7700-P4201-U0P0500
		10m		7700-P4201-U0P1000



MALE 90°

Poles	Cable Type	Length	Jacket Color	Art. Number
4	16AWG TPE	5m	Yellow	7700-P4111-U0C0500
		10m		7700-P4111-U0C1000
5		5m		7700-P4211-U0D0500
		10m		7700-P4211-U0D1000



FEMALE STRAIGHT

Poles	Cable Type	Length	Jacket Color	Art. Number
4	16AWG TPE	3m	Yellow	7700-P4121-U0C0300
		5m		7700-P4121-U0C0500
		10m		7700-P4121-U0C1000
	14AWG TPE	3m		7700-P4121-U0N0300
		5m		7700-P4121-U0N0500
		10m		7700-P4121-U0N1000
5	16AWG TPE	3m		7700-P4221-U0D0300
		5m		7700-P4221-U0D0500
		10m		7700-P4221-U0D1000
	14AWG TPE	3m		7700-P4221-U0P0300
		5m		7700-P4221-U0P0500
		10m		7700-P4221-U0P1000



FEMALE 90°

Poles	Cable Type	Length	Jacket Color	Art. Number
4	16AWG TPE	3m	Yellow	7700-P4131-U0C0300
		5m		7700-P4131-U0C0500
		10m		7700-P4131-U0C1000
5	16AWG TPE	3m		7700-P4231-U0D0300
		5m		7700-P4231-U0D0500
		10m		7700-P4231-U0D1000



MALE STRAIGHT TO FEMALE STRAIGHT



Poles	Cable Type	Length	Jacket Color	Art. Number
4	16AWG TPE	3m	Yellow	7700-P4141-U0C0300
		5m		7700-P4141-U0C0500
		10m		7700-P4141-U0C1000
	14AWG TPE	3m		7700-P4141-U0N0300
		5m		7700-P4141-U0N0500
		10m		7700-P4141-U0N1000
5	16AWG TPE	3m		7700-P4241-U0D0300
		5m		7700-P4241-U0D0500
		10m		7700-P4241-U0D1000
	14AWG TPE	3m		7700-P4241-U0P0300
		5m		7700-P4241-U0P0500
		10m		7700-P4241-U0P1000

MALE STRAIGHT TO FEMALE 90°



Poles	Cable Type	Length	Jacket Color	Art. Number
4	16AWG TPE	3m	Yellow	7700-P4151-U0C0300
		5m		7700-P4151-U0C0500
		10m		7700-P4151-U0C1000
5		3m		7700-P4251-U0D0300
		5m		7700-P4251-U0D0500
		10m		7700-P4251-U0D1000

MALE 90° TO FEMALE STRAIGHT



Poles	Cable Type	Length	Jacket Color	Art. Number
4	16AWG TPE	3m	Yellow	7700-P4161-U0C0300
		5m		7700-P4161-U0C0500
		10m		7700-P4161-U0C1000
5		3m		7700-P4261-U0D0300
		5m		7700-P4261-U0D0500
		10m		7700-P4261-U0D1000

MALE 90° TO FEMALE 90°



Poles	Cable Type	Length	Jacket Color	Art. Number
4	16AWG TPE	3m	Yellow	7700-P4171-U0C0300
		5m		7700-P4171-U0C0500
		10m		7700-P4171-U0C1000
5		3m		7700-P4271-U0D0300
		5m		7700-P4271-U0D0500
		10m		7700-P4271-U0D1000

Receptacles and T-Coupler

Poles	Wire Gauge	Length	Gender	Article Number
4	16AWG	.5m	Male	7000-P4182-9440050
		1m		7000-P4182-9440100
		.5m	Female	7000-P4192-9440050
		1m		7000-P4192-9440100
5		.5m	Male	7000-P4282-9800050
		1m		7000-P4282-9800100
		.5m	Female	7000-P4292-9800050
		1m		7000-P4292-9800100



Description	Article Number
5-pole	7000-P4901-0000000



Field Wireables

Description	Article Number
5-pole Male, Screw Terminal	7000-P4591-0000000
5-pole Female, Screw Terminal	7000-P4611-0000000



L-Code to Mini Adapter

Poles	Cable Type	Length	Jacket Color	Art. Number
4	16AWG TPE	.3m	Yellow	7700-A4P41-U0C0030
		1m		7700-A4P41-U0C0100
		3m		7700-A4P41-U0C0300
5		.3m		7700-A5P41-U0D0030



Bulk Cable

SENSOR



Poles	Cable Type	Length	Wire Gauge	Jacket Color	Art. No.
4	PVC	100m	22AWG	Yellow	7000-C0101--0140000
				Gray	7000-C0101--2140000
	Black			7000-C0101--6140000	
				PUR	7000-C0101--6340000

NETWORK



Poles	Cable Type	Length	Jacket Color	Art. No.
2x2x24AWG	TPE	100m	Teal	7700-C0201-S4U0000
		500m		7700-C0505-S4U0000
4x2x24AWG		100m		7700-C0201-S4W0000
		500m		7700-C0505-S4W0000

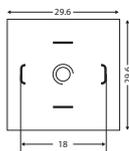
POWER



Poles	Cable Type	Length	Wire Gauge	Jacket Color	Art. No.
3	TPE	500m	16AWG	Yellow	7700-C0705-U1B0000
4					7700-C0705-U0C0000
					7700-C0705-U1C0000
5					7700-C0705-U0D0000
					7700-C0705-U1D0000

Valve Plugs

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

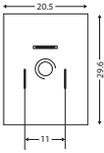
24V AC/DC WITH LED & SUPPRESSION

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

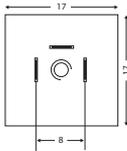
110V AC/DC WITH LED & SUPPRESSION

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

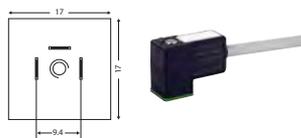
110V AC/DC WITH LED & SUPPRESSION

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

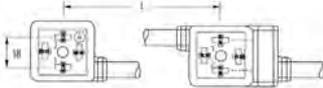
Double Valve Plugs

FORM A (18mm)
24V AC/DC with LED & SUPPRESSION



Cable Type	Cable Length	Jacket Color	Art. Number
PUR/PVC	3m	Gray	7000-58041-2270300
	5m		7000-58041-2270500
	1.5m	Black	7000-58041-6270150
	5m		7000-58041-6270500

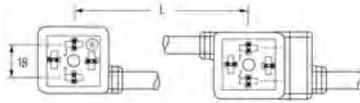
CONTACT LAYOUT
L = 200mm



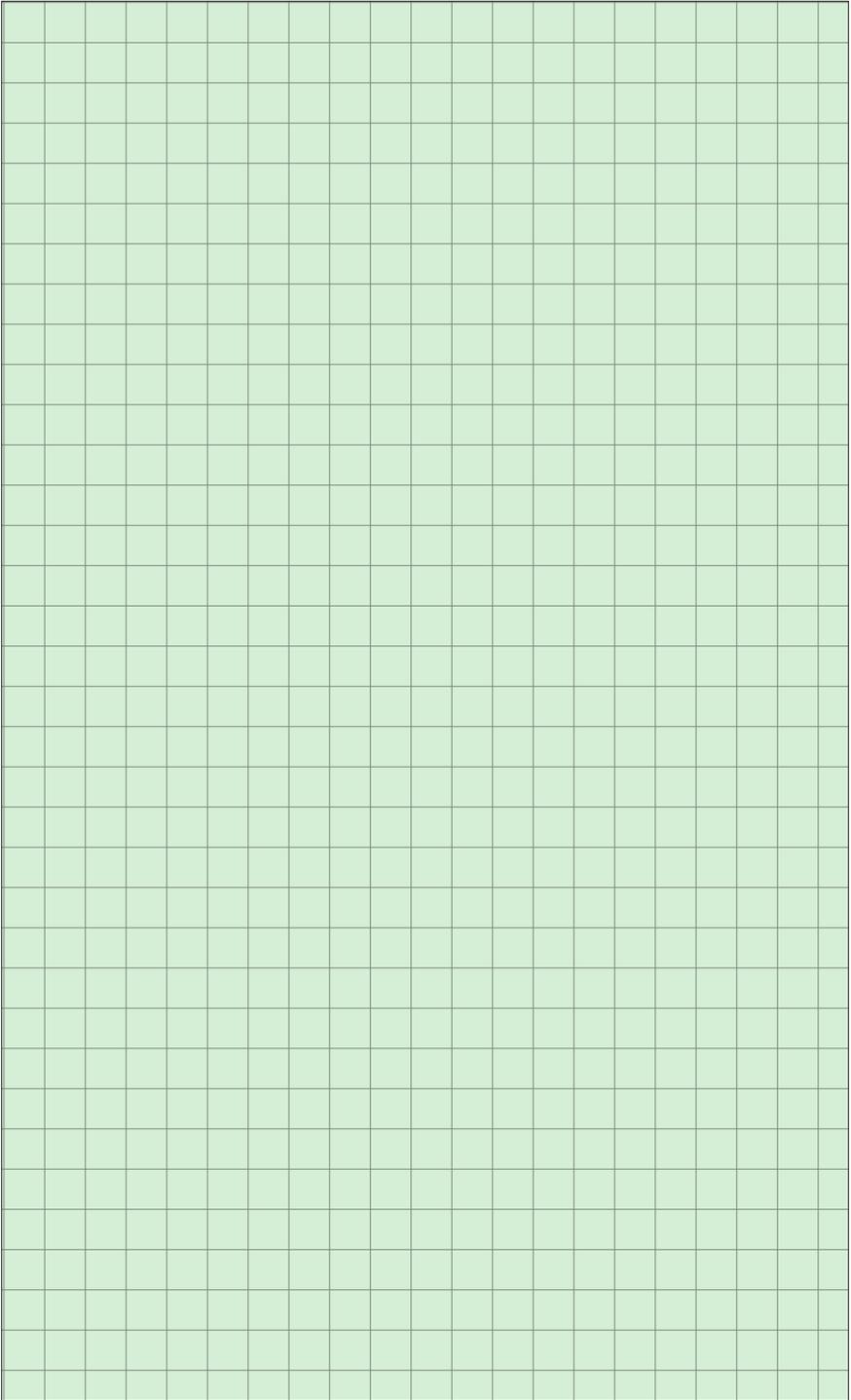
FORM A (18mm)
110 V AC/DC with LED & SUPPRESSION

Cable Type	Cable Length	Jacket Color	Art. Number
PUR/PVC	3m	Gray	7000-58025-2270300
			7000-58005-2270300

CONTACT LAYOUT
 7000-58025-2270300 L = 150mm
 7000-58005-2270300 L = 110mm



Notes:



Have you seen our YouTube® Channel?

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, MICO Pro and Modlink 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

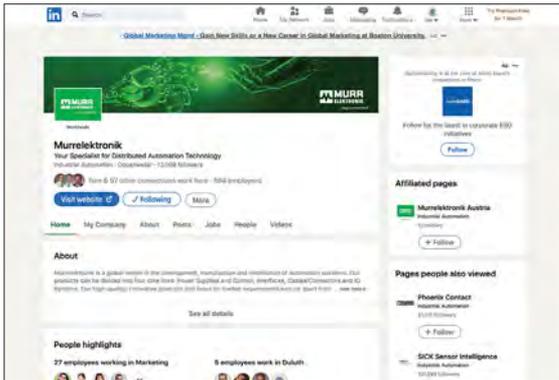


IDC



Torque Wrench

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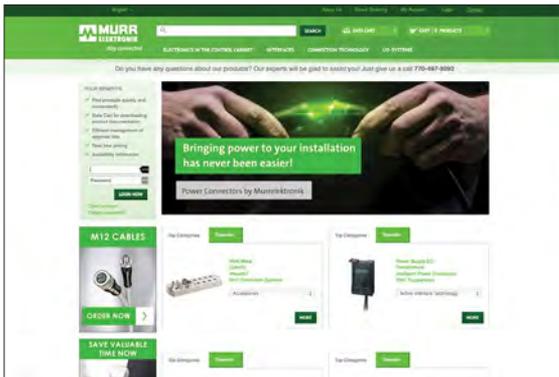


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