

- ↘ Saves space
- ↘ Cost-effective
- ↘ Reliable

PASSIVE DISTRIBUTION BOXES

Smart Solutions from Murrelektronik





FACTS ABOUT MURRELEKTRONIK

- Represented worldwide with 26 branch offices and many international distributors
- Over 2,000 employees
- 2 million products in stock so you don't have to wait
- 65,000 different products

MURRELEKTRONIK PROVIDES

- System solutions for all different kinds of applications
- Comprehensive diagnostic options
- Rugged products
- Excellent logistics for fast deliveries
- Compatible with all standard fieldbus systems

THE RIGHT DISTRIBUTION BOX FOR ANY APPLICATION

Single-wire connectivity in machines and installations is troublesome and error-prone. Murrelektronik's passive distribution boxes provide a much more convenient method for connecting sensors and actuators to the control cabinet. Murrelektronik supplies a comprehensive range of distribution boxes: They create optimum installations for any application and are cost-effective, reliable, and space saving solutions!

■ **Saves space!**

Fewer terminal blocks, fewer cable entry systems, and fewer terminal boxes in the field are distribution box solutions that save space and also offer flexible mounting options.

■ **Cost-effective!**

Distribution box installations can be setup quickly. Modular components allow easy and convenient exchange which saves time and costs.

■ **Reliable!**

Integrated LEDs make troubleshooting easy. It goes without saying that Murrelektronik's distribution boxes have IP65 or IP67 protection. Practical and pre-tested plug connections help prevent wiring errors.

PASSIVE INSTALLATION: Conventional wiring versus distribution boxes



HIGH OVERALL COSTS



- ① Project Planning
- ② Procurement
- ③ Installation, Setup
- ④ Service, Maintenance
- ⑤ Time and money saved

TIME AND MONEY SAVED





PASSIVE DISTRIBUTION BOXES FROM MURRELEKTRONIK



Cable Types		PVC	PUR/PVC	PUR	PUR suitable for robots
Cable Standard		★	★★	★★★	★★★★★
Properties*	Flame retardant	■	■	■	■
	Resistant to chemicals	■	■	■	■
	Resistant to cleaning agents (Ecolab)	■			
	Resistant to oil and lubricants		■	■	■
	Bend cycles**		2 million	3 million	5 million
	Suitable for robotic applications				±180°
	Welding spark resistant				■
	UV resistant			■	■
	Halogen-free			■	■
	Varying temperatures	-5 up to +80 °C	-5 up to +80 °C	-25 up to +80 °C	-25 up to +90 °C
	UL/CSA approvals	■	□	■	■
	Compliant with NFPA 79 Edition 2012	■		□	
Application Examples		Packaging Machines Food & Beverage Assembly Lines Production Lines	Packaging Machines Handling Machines Assembly Lines Production Lines	Machine Tools Swivel Tables Metal Cutting	Machine Tools Industrial Robots Metal Cutting High Performance C-Tracks

□ Deviations possible

* The properties of some cable types may differ from this data.

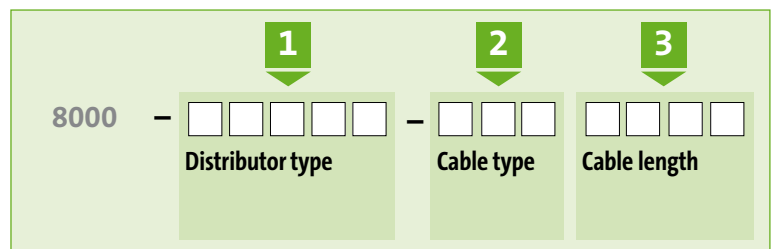
** Max. 3.3 m/s at 5 m horizontal travel distance and max. acceleration of 5 m/s².

ORDERING SYSTEM

Our concept for your individual application solutions. Our distribution boxes are modular systems that you can customize for your application.

ARTICLE NUMBER SYSTEM

The article number consists of three blocks: connector type, cable type and cable length.



EXAMPLE

Block 1: Distributor type

8 8 4 1 0

M12 8-way distribution box, 4-pole with LED

Block 2: Cable type

3 6 2

cable type PUR/PVC

Block 3: Cable length in cm

0 3 0 0

3 m cable length (standard lengths are 0300, 0500, 1000, 1500, 2000, 2500, 3000)

The article number for this example will be:

8000 - 8 8 4 1 0 - 3 6 2 0 3 0 0



For more information and convenient ordering, visit:
shop.murrelektronik.com



M8 DISTRIBUTION SYSTEMS EXACT8

SPACE SAVING INSTALLATION SOLUTIONS

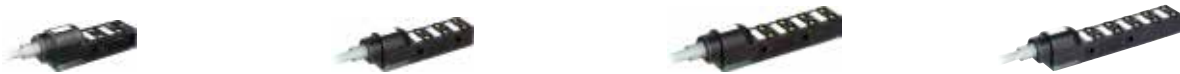
Murrelektronik's M8 distribution systems enable economical installation solutions, even in a confined space. The components are only 30 mm wide and can be installed in many ways – including side mounting.

APPROVALS



- Small dimensions (30 mm wide)
- PVC-, PUR/PVC-, PUR- and robot cables for fixed and flexible installations
- Different assembly options for confined spaces
- Quick and easy replacement of homerun cables

Molded Homerun Cable



	4-way		6-way		8-way		10-way	
	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole
PNP	8000-84010-...	8000-84110-...	8000-86010-...	8000-86110-...	8000-88010-...	8000-88110-...	8000-80010-...	8000-80110-...
NPN	8000-84011-...	8000-84111-...	8000-86011-...	8000-86111-...	8000-88011-...	8000-88111-...	8000-80011-...	8000-80111-...

3-pole (1 signal per port) | 4-pole (2 signals per port) | Info about homerun cable starting on page 22

Pluggable Modules | Basic Modules



	4-way		6-way		8-way		10-way	
	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole
PNP	8000-84000-...	8000-84100-...	8000-86000-...	8000-86100-...	8000-88000-...	8000-88100-...	8000-80000-...	8000-80100-...
NPN	8000-84001-...	8000-84101-...	8000-86001-...	8000-86101-...	8000-88001-...	8000-88101-...	8000-80001-...	8000-80101-...

3-pole (1 signal per port) | 4-pole (2 signals per port)

Connection Cap with Homerun Cable



	4-way		6-way		8-way		10-way	
	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole
PNP	8000-84049-...	8000-84149-...	8000-86049-...	8000-86149-...	8000-88049-...	8000-88149-...	8000-80049-...	8000-80149-...

3-pole (1 signal per port) | 4-pole (2 signals per port) | Info about homerun cable starting on page 22

Field Wireable Connection Cap



	4-way		6-way		8-way		10-way	
	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole
PNP	8000-84949-...	8000-84949-...	8000-84949-...	8000-80949-...	8000-84949-...	8000-80949-...	8000-84949-...	8000-84949-...

3-pole (1 signal per port) | 4-pole (2 signals per port)

Sets (Basic Module and Connection Cap)



	4-way		6-way		8-way		10-way	
	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole
PNP	8000-84040-...	8000-84140-...	8000-86040-...	8000-86140-...	8000-88040-...	8000-88140-...	8000-80040-...	8000-80140-...

3-pole (1 signal per port) | 4-pole (2 signals per port) | Info about homerun cable starting on page 22

Pluggable M12 Homerun Port | 8-pole



	4-way	6-way
	3-pole	3-pole
	M12, 8-pole, up to 6 signals	
PNP	8000-84070-...	8000-86070-...
NPN	8000-84071-...	-

3-pole (1 signal per port)

Cordsets | Connectors | Receptacles | 8-pole

Open Ended Cordset				
	Female straight			7000-17041-xxxxxyyy
	Female 90°			7000-17061-xxxxxyyy
Double Ended Cordset				
	Male straight	Female straight		7000-48001-xxxxxyyy
	Male straight	Female 90°		7000-48011-xxxxxyyy
	Male 90°	Female 90°		7000-48021-xxxxxyyy
	Male 90°	Female straight		7000-48031-xxxxxyyy
Field Wireable Connectors				
	Female straight	Clamping range (cable Ø): 6...8 mm		7000-17321-0000000
	Female 90°	Clamping range (cable Ø): 6...8 mm		7000-17331-0000000
	Male straight	Clamping range (cable Ø): 6...8 mm		7000-17301-0000000
	Male straight	Clamping range (cable Ø): 6...8 mm		7000-17311-0000000
Receptacles with Nut				
	Female A-coded	Front mounting	with attached wires	7000-17182-973yyyyy
	Female A-coded	Rear mounting	with attached wires	7000-17185-973yyyyy
	Cable entry system A-coded		shielded	7000-48111-0000000

For details on how to configure your cordset, see page 9

Pluggable M12 Homerun Port | 12-pole



	4-way		6-way		8-way		10-way	
	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole	3-pole	4-pole
	M12, 12-pole, up to 10 signals							
PNP	8000-84060-...	8000-84160-...	8000-86060-...	–	8000-88060-...	–	8000-80060-...	–
NPN	–	–	–	–	8000-88061-...	–	8000-80061-...	–

3-pole (1 signal per port) | 4-pole (2 signals per port)

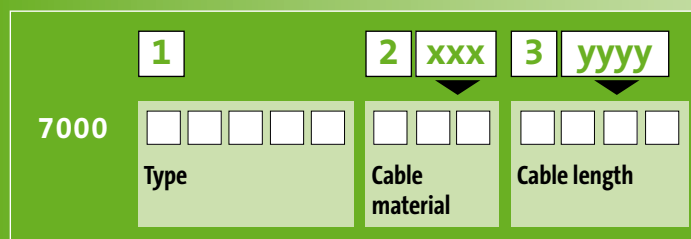
Cordsets | Receptacles | 12-pole

Open Ended Cordset			
	Female straight		7000-19041-xxxyyyy
	Female 90°		7000-19061-xxxyyyy
Double Ended Cordset			
	Male straight	Female straight	7000-53001-xxxyyyy
	Male straight	Female 90°	7000-53021-xxxyyyy
	Male 90°	Female 90°	7000-53061-xxxyyyy
	Male 90°	Female straight	7000-53041-xxxyyyy
Receptacles with Nut			
	Female A-coded	Front mounting	with attached wires
			7000-19182-979yyyyy
	Female A-coded	Rear mounting	with attached wires
			7000-19185-979yyyyy

For details on how to configure your cordset, see below

Article Number System for M12 and M23 Homerun Cable

Replace xxx with the part no. of the requested cable material (see page 23) and yyyy with the cable length

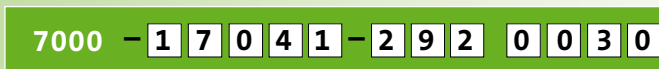


Example

- Block 1: Type M12 female straight
- Block 2: Cable Material PUR, Ctrack suitable, gray
- Block 3: Cable Length 0.3 cable length



The article number for this example will be:





M12 DISTRIBUTION SYSTEMS

EXACT12

RELIABLE AND ECONOMICAL

Distribution boxes are designed for consistently connected solutions from the control into the field. They can be easily separated for assembly and transport. The fully potted boxes are sealed and resistant to a variety of media.

APPROVALS



- Quick installation with pre-wired and tested cordsets
- 2 signals per port saves space. The second signal corresponds to the white LED
- Available with molded homerun cable, pluggable homerun cable or connection for direct installation into the cabinet

Molded Homerun Cable



	4-way		8-way	
	4-pole	5-pole	4-pole	5-pole
PNP	8000-84410-...	8000-84510-...	8000-88410-...	8000-88510-...
NPN	8000-84411-...	8000-84511-...	8000-88411-...	8000-88511-...
no LED	8000-84412-...	8000-84512-...	8000-88412-...	8000-88512-...

4-pole (1 signal per port) | 5-pole (2 signals per port) | Info about homerun cable starting on page 22

Pluggable Modules | Basic Modules



	4-way		8-way	
	4-pole	5-pole	4-pole	5-pole
PNP	8000-84400-...	8000-84500-...	8000-88400-...	8000-88500-...
	–	8000-84600-... with pot. separation	–	8000-88600-... with pot. separation
NPN	8000-84401-...	8000-84501-...	8000-88401-...	8000-88501-...
no LED	8000-84402-...	8000-84502-...	8000-88402-...	8000-88502-...

4-pole (1 signal per port) | 5-pole (2 signals per port)

Connection Cap with Homerun Cable



	4-way		8-way	
	4-pole	5-pole	4-pole	5-pole
PNP	8000-84459-...	8000-84559-...	8000-88459-...	8000-88559-...
	–	8000-84659-... with pot. separation	–	8000-88659-... with pot. separation

Info about homerun cable starting on page 22

Field Wireable Connection Cap



	4-way		8-way	
	Pluggable spring clamp terminal	Screw terminals	Pluggable spring clamp terminal	Screw terminals
PNP	8000-88549-0000000	8000-88559-0000000	8000-88549-0000000	8000-88559-0000000

Sets (Basic Module and Connection Cap)



	4-way				8-way			
	Pluggable spring clamp terminals		Screw terminals		Pluggable spring clamp terminals		Screw terminals	
	4-pole	5-pole	4-pole	5-pole	4-pole	5-pole	4-pole	5-pole
PNP	8000-84440-...	8000-84540-...	8000-84450-...	8000-84550-...	8000-88440-...	8000-88540-...	8000-88450-...	8000-88550-...
NPN	–	–	8000-84451-...	8000-84551-...	–	–	8000-88451-...	8000-88551-...
no LED	–	–	8000-84452-...	8000-84552-...	–	–	8000-88452-...	8000-88552-...

4-pole (1 signal per port) | 5-pole (2 signals per port)

Sets (Basic Module and Connection Cap)






	4-way		8-way	
	Screw terminals	Screw terminals	Pluggable spring clamp terminals	Screw terminals
	5-pole	5-pole	5-pole	5-pole
PNP	8000-84650-... with pot. separation	–	8000-88640-... with pot. separation	8000-88650-... with pot. separation
NPN	–	8000-84651-... with pot. separation	–	8000-88651-... with pot. separation

Rear Mount



	8-way	
	Spring clamp terminals soldered	Pluggable spring clamp terminals
	5-pole	5-pole
PNP	8000-88580-...	8000-88590-...
	8000-88680-... with pot. separation	8000-88690-... with pot. separation
NPN	–	8000-88591-...
no LED	–	8000-88592-...

Accessories for Rear Mount Exact12

Mounting accessories		
	Snap-on adapter	996074
	Fastener for snap-on adapter	996079
	Blind plate IP54 rated	996075

Pluggable M12 Homerun Port



	4-way		8-way	
	2 x 4 pole, 2 x 5 pole	5-pole	6 x 4 pole, 2 x 5 pole	
	M12, 8-pole, up to 6 signals Ground on hex screw	M12, 12-pole, up to 8 signals Ground on hex screw	M12, 12-pole, up to 10 signals Ground on hex screw	
PNP	8000-84470-...	8000-84560-...	8000-88460-...	

4-pole (1 signal per port) | 5-pole (2 signals per port)





Pluggable M23 Homerun Port



	4-way		8-way	
	5-pole	5-pole	4-pole	5-pole
	M23, 12-pole, up to 8 signals Ground on hex screw and pin	M23, 19-pole, up to 8 signals Ground on hex screw and pin	M23, 12-pole, up to 8 signals Ground on hex screw and pin	M23, 19-pole, up to 16 signals Ground on hex screw and pin
PNP	8000-84530-...	8000-84520-...	8000-88430-...	8000-88520-...
no LED	–	–	–	8000-88522-...

4-pole (1 signal per port) | 5-pole (2 signals per port)

Accessories Exact12 Distribution Boxes

Mounting Accessories		
	DIN rail mounting adapter	27905
Homerun Cable Accessories		
	Blind plug M12, inner thread VE4, plastic	56951
	Blind plug M23 metal	55352
Cordsets		
	For more information about connection cables go to: shop.murrelektronik.com	



M12 DISTRIBUTION SYSTEMS

MVP12 METAL

RUGGED, RESISTANT TO MEDIA, IP68 SEALED

MVP12 Metal distribution boxes perform great when used in the harsh environments of mechanical engineering and plant construction. They are fully potted and resistant to oils and cooling lubricants. The metal housing withstands extreme temperatures and intensive mechanical stress. The distribution boxes are designed for voltages of up to 125 VAC/DC. Tested shielding ensures safety even under extreme external interferences.

APPROVALS



- Quick installation with pre-wired and tested cordsets
- Molded homerun cable or M23 plug connection
- High-quality PUR cable with wide wire cross sections
- Shielded models for EMC compatible installations
- Sealed up to IP68

Molded Homerun Cable



	4-way	8-way
	5-pole	
PNP	8000-54510-...	8000-58510-...
	8000-54610-... with pot. separation	8000-58610-... with pot. separation
NPN	–	8000-58511-...
	–	8000-58611-... with pot. separation
no LED	8000-54512-...	8000-58512-...

5-pole (2 signals per port) | Info about homerun cable starting on page 22

Molded Homerun Cable



	4-way	8-way
	5-pole	
	shielded	
PNP	8000-54513-...	8000-58513-...
no LED	8000-54515-...	8000-58515-...

5-pole (2 signals per port) | Info about homerun cable starting on page 22

Pluggable M23 Homerun Port



	4-way	8-way
	5-pole	
PNP	8000-54520-...	8000-58520-...
no LED	8000-54522-...	8000-58522-...

MVP12 Universal Metal with Pluggable / Molded Homerun Cable



	4-way	4-way
	4-pole + ground	
	M23, 19-pole	shielded
no LED	8000-54722-...	8000-54712-...

5-pole, shielded or unshielded, depending on M23 homerun cable

5-pole (2 signals per port) | Info about homerun cable starting on page 22



M12 DISTRIBUTION SYSTEMS

UNIVERSAL EXACT12 AND MVP12

INCREDIBLY VERSATILE

Murrelektronik's universal distribution boxes can collect up to four signals per port independently of each other. They are the right solution for applications that include analog signals. A typical application is measuring temperatures with resistance sensors or thermo elements.

APPROVALS



- For universal applications, including for analog signals
- Quick installation with pre-wired cordsets
- High-quality PUR cable with wide wire cross sections

Universal Exact12 with Molded Homerun Cable



	4-way	
	Molded homerun cable	Molded homerun cable
	5-pole/all-pole	4-pole + ground
no LED	8000-84712-...	8000-94712-...

5-pole, als suitable for analog signals | Info about homerun cable starting on page 22

MVP12 Universal Sets (Basic Module and Cap)



	4-way	
	Pluggable spring clamp terminals	Screw terminals
	4-pole + ground	
no LED	8000-44742-0000000	8000-44752-0000000

5-pole, also suitable for analog signals

MVP12 Universal Basic Module



	4-way	
	Basic module	
	5-pole/all-pole	
	8000-44702-0000000	

MVP12 Universal Connection Cap with Molded Homerun Cable | Field Wireable Connection Caps



	4-way	4-way	4-way	4-way
	Pluggable spring clamp terminal	Pluggable spring clamp terminal	Screw terminals	Pluggable spring clamp terminal
	5-pole			
	8000-84749-...	8000-84759-...	8000-84749-0000000	8000-84759-0000000

Info about homerun cable starting on page 22



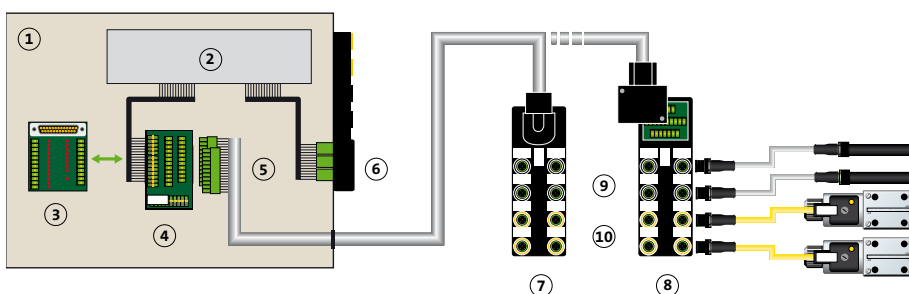
M12 DISTRIBUTION SYSTEMS

EXACT12 SAFETY

SAFE APPLICATIONS

Exact12 distribution boxes for safety applications connect up to eight safe actuators in addition to eight standard sensors. They meet the EN ISO 13849-2 requirements. The ports are easily identified by a yellow ring that encircles them.

APPROVALS



- ① Control Cabinet
- ② I/O Level
- ③ Pluggable service adapter for setup, test and troubleshooting
- ④ Transfer module
- ⑤ Pluggable terminals
- ⑥ Distribution box with rear connection to the cabinet
- ⑦ Distribution box with molded home-run cable
- ⑧ Distribution box with pluggable connection cap
- ⑨ 8 digital inputs/outputs
- ⑩ 8 safety outputs

Exact12 Safety for Safety Wiring with Molded Homerun Cable



	8-way	8-way
	With cable and terminals	Molded home-run cable
	P1-P4 5 pole PNP-LED, P5-P8 3 pole + ground 1:1 no LED	
PNP	8000-98710-...	8000-987A0-...

Info about homerun cable starting on page 22

Exact12 Safety for Safety Wiring | Rear Mount



	8-way
	Spring clamp terminals
	P1-P4 5 pole PNP-LED, P5-P8 3 pole + ground 1:1 no LED
PNP	8000-98790-0000000 with pot. separation

Exact12 Safety for Safety Wiring Basic Module



	8-way	8-way
	P1-P4 5 pole PNP-LED, P5-P8 4/3 pole 1:1 no LED	P1-P4 5 pole PNP-LED, P5-P8 4/3 pole, Y-wiring, 1:1 no LED
PNP	8000-98700-0000000	8000-98800-0000000



Exact12 Safety for Safety Wiring | Basic Module | Connection Cap



	8-way	8-way	8-way	8-way
	P1-P4 5 pole PNP-LED, P5-P8 4/3 pole 1:1 no LED		5-pole (4/3-pole)	5-pole
	–	–	With cable and terminals	–
PNP	8000-98700-0000000	8000-98800-0000000	8000-98749-...	8000-987A9-...

Info about homerun cable starting on page 22

Accessories Exact12 Safety for Safety Wiring

	Transfer module IP20, DIN rail mounting	596154
	Measurement adapter with LED, IP20	596153



XTREME DISTRIBUTION BOXES – PLENTY OF POWER FOR EXTREME ENVIRONMENTS

Trucks and other heavy equipment have to deal with complicated conditions in extreme environments. With cordsets and distribution boxes from the XTREME series, Murrelektronik offers reliable and uncomplicated installation solutions for these environments.

MVP12 STEEL – RESISTANT AND FUNCTIONAL

MVP12 Steel distribution boxes with stainless steel housings are IP69k rated to meet the requirements of the food and beverage industry. They are an excellent choice for implementing decentralized installations for the food and beverage industry. They replace terminal boxes and make the routing of extremely complex cables easier.

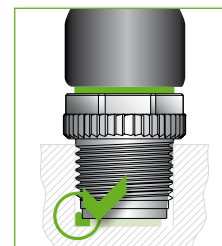


For more information about distribution boxes visit:

➤ shop.murrelektronik.com
or contact your sales representative.

SIMPLY PRACTICAL

- Always the right torque for the perfect seal
- Connect cables easily, reliably, and consistently
- Easy to use within confined space



Perfectly sealed with the o-ring

Molded and Pluggable Homerun Cable | Technical Data

Cable No.	Structure	Jacket material/ color	Certification	Diameter	Bend radius	Torsion	Temperature (mobile)	Shielded
293	8x0.25 mm ²	PVC gr	–	6.0±0.2 mm	12xD	–	-5°C...+70°C	–
295	8x0.25 mm ²	PUR gr	UL/CSA	6.0±0.2 mm	10xD	180°	-20°C...+80°C	–
301	12x0.25 mm ²	PUR gr	UL/CSA	6.9±0.2 mm	15xD	–	-20°C...+80°C	–
302	12x0.25 mm ²	PUR gr	UL/CSA	6.9±0.2 mm	10xD	180°	-25°C...+90°C	–
333	4x0.34 3x0.75mm ²	PUR/PVC gr	UL/CSA	7.4±0.3 mm	12xD	–	-5°C...+70°C	–
334	4x0.34+2x0.75 mm ²	PUR gr	UL/CSA	7.6±0.2 mm	10xD	–	-5°C...+80°C	–
337	4x0.34+2x0.75 mm ²	PUR/PVC gr	UL/CSA	6.9±0.2 mm	12xD	–	-5°C...+70°C	–
350	6x0.34+2x0.75mm ²	PUR/PVC gr	UL/CSA	7.8±0.2 mm	12xD	–	-5°C...+70°C	–
356	6x0.34+2x0.75 mm ²	PUR gr	UL/CSA	8.5±0.2 mm	10xD	–	-5°C...+80°C	–
357	8x0.34+2x0.75 mm ²	PUR/PVC gr	UL/CSA	8.6±0.2 mm	12xD	–	-5°C...+70°C	–
358	8x0.34+2x0.75 mm ²	PUR/PVC gr	–	8.6±0.2 mm	12xD	–	-5°C...+70°C	–
359	8x0.34+2x0.75 mm ²	PUR gr	UL/CSA	9.2±0.2 mm	10xD	–	-5°C...+80°C	–
360	8x0.34+2x0.75 mm ²	PUR gr	UL/CSA	9.2±0.2 mm	10xD	–	-5°C...+80°C	–
362	8x0.34+3x0.75 mm ²	PUR/PVC gr	UL/CSA	8.1±0.3 mm	12xD	–	-5°C...+80°C	–
363	8x0.34+3x0.75mm ²	PUR/PVC gr	UL/CSA	8.1±0.3 mm	12xD	–	-5°C...+70°C	–
373	8x0.34+3x0.75mm ²	PUR gr	UL/CSA	9.3±0.3 mm	12xD	–	-5°C...+80°C	X
374	8x0.34+5x0.75 mm ²	PUR/PVC gr	UL/CSA	9.2±0.2 mm	12xD	–	-5°C...+80°C	–
377	8x0.34 mm ²	PUR gr	UL/CSA	6.2±0.2 mm	10xD	180°	-25°C...+80°C	–
384	10x0.34+2x0.75 mm ²	PUR gr	UL/CSA	9.3±0.2 mm	10xD	–	-5°C...+80°C	–
385	10x0.34+2x0.75 mm ²	PUR/PVC gr	UL/CSA	8.3±0.2 mm	12xD	–	-5°C...+70°C	–
386	12x0.34+2x0.75 mm ²	PUR/PVC gr	–	8.8±0.2 mm	12xD	–	-5°C...+70°C	–
389	12x0.34+2x0.75 mm ²	PUR gr	UL/CSA	9.5±0.2 mm	10xD	–	-5°C...+80°C	–
395	16x0.34+2x0.75 mm ²	PUR/PVC gr	–	9.6±0.2 mm	12xD	–	-5°C...+70°C	–
396	16x0.34+2x0.75 mm ²	PUR gr	UL/CSA	10.4±0.2 mm	10xD	–	-5°C...+80°C	–
398	16x0.34+3x0.75mm ²	PUR/PVC gr	UL/CSA	10.7±0.5 mm	12xD	–	-5°C...+70°C	–
401	16x0.34+3x0.75mm ²	PUR gr	UL/CSA	11.7±0.3 mm	12xD	–	-5°C...+80°C	X
403	16x0.34+5x0.75 mm ²	PUR gr	UL/CSA	11.5±0.3 mm	10xD	–	-5°C...+80°C	–
404	16x0.34+5x0.75 mm ²	PUR/PVC gr	UL/CSA	12.5±0.3 mm	12xD	–	-5°C...+70°C	–
407	20x0.34+2x0.75 mm ²	PUR gr	UL/CSA	10.2±0.3 mm	12xD	–	-5°C...+70°C	–
408	20x0.34+2x0.75 mm ²	PUR gr	UL/CSA	10.2±0.3 mm	10xD	–	-5°C...+80°C	–
411	20x0.34+2x0.75 mm ²	PUR gr	UL/CSA	11.3±0.2 mm	10xD	–	-5°C...+80°C	–
412	20x0.34+2x0.75 mm ²	PUR/PVC gr	–	10.4±0.2 mm	12xD	–	-5°C...+70°C	–
447	8x0.5+3x1.0 mm ²	PUR gr	UL/CSA	9.4±0.3 mm	10xD	–	-5°C...+80°C	–
448	8x0.5+3x1.0 mm ²	PUR gr	UL/CSA	9.0±0.3 mm	10xD	–	-5°C...+80°C	–
452	16x0.5+3x1.0 mm ²	PUR gr	UL/CSA	11.5±0.3 mm	10xD	–	-5°C...+80°C	–
533	18 x 0.75 mm ²	PUR gr	–	11.7±0.5 mm	20xD	–	-5°C...+70°C	–
702	12x0.14 mm ²	PVC bk	–	6.0±0.2 mm	10xD	–	-5°C...+70°C	–
705	12x0.14 mm ²	PUR bk	UL/CSA	6.0±0.2 mm	10xD	180°	-25°C...+85°C	–
708	24x0.2+2x0.75 mm ²	PUR bk	UL/CSA	10.2±0.3 mm	10xD	–	-20°C...+80°C	–
722	8x0.25 mm ²	PUR bk	UL/CSA	6.0±0.2 mm	10xD	180°	-20°C...+80°C	–

Molded Homerun Cables | Cable Nos. for Exact8 | Exact12 Distribution Boxes

Description	Type	PUR / PVC	PUR gray		
Cable Standard		★★	★★★		
Exact8, 10-way, 3 pole	8000-80010	385	384		
Exact8, 10-way, 3 pole	8000-80011	385	384		
Exact8, set (basic module and cap), 10-way, 3 pole	8000-80040	385	384		
Exact8, connection cap, 3 pole	8000-80049	385	384		
Exact8, 10-way, 4 pole	8000-80110	412	411		
Exact8, 10-way, 4 pole	8000-80111	412	411		
Exact8, 4-way, 3 pole	8000-84010	337	334		
Exact8, 4-way, 3 pole	8000-84011	337	334		
Exact8, set (basic module and cap), 4-way, 3 pole	8000-84040	337	334		
Exact8, connection cap, 4-way, 3 pole	8000-84049	337	334		
Exact8, 4-way, 4 pole	8000-84110	358	360		
Exact8, 4-way, 4 pole	8000-84111	358	360		
Exact8, set (basic module and cap), 4-way, 4 pole	8000-84140	358	360		
Exact8, connection cap, 4-way, 4 pole	8000-84149	358	360		
Exact8, 6-way, 3 pole	8000-86010	350	356		
Exact8, 6-way, 3 pole	8000-86011	350	356		
Exact8, set (basic module and cap), 6-way, 3 pole	8000-86040	350	356		
Exact8, connection cap, 6-way, 3 pole	8000-86049	350	356		
Exact8, 6-way, 4 pole	8000-86110	386	389		
Exact8, 6-way, 4 pole	8000-86111	386	389		
Exact8, set (basic module and cap), 6-way, 4 pole	8000-86140	386	389		
Exact8, connection cap, 6-way, 4 pole	8000-86149	386	389		
Exact8, 8-way, 3 pole	8000-88010	357	359		
Exact8, 8-way, 3 pole	8000-88011	357	359		
Exact8, set (basic module and cap), 8-way, 3 pole	8000-88040	357	359		
Exact8, connection cap, 8-way, 3 pole	8000-88049	357	359		
Exact8, 8-way, 4 pole	8000-88110	395	396		
Exact8, 8-way, 4 pole	8000-88111	395	396		
Exact8, set (basic module and cap), 8-way, 4 pole	8000-88140	395	396		
Exact8, connection cap, 8-way, 4 pole	8000-88149	395	396		
Exact12, 4-way, 4 pole	8000-84410	333	–		
Exact12, 4-way, 4 pole	8000-84411	333	–		
Exact12, 4-way, 4 pole	8000-84412	333	–		
Exact12, connection cap, 4 pole	8000-84459	333	–		
Exact12, 4-way, 5 pole	8000-84510	363	448		
Exact12, 4-way, 5 pole	8000-84511	363	448		
Exact12, 4-way, 5 pole	8000-84512	363	448		
Exact12, connection cap, 5 pole	8000-84559	363	448		
Exact12, connection cap, 5 pole with pot. separation	8000-84659	374	–		
Exact12, connection cap	8000-84759	404 / 533	–		
Exact12, 4-way, 4 pole	8000-88410	362	447		
Exact12, 4-way, 4 pole	8000-88411	362	–		
Exact12, 4-way, 4 pole	8000-88412	362	–		
Exact12, connection cap, 4 pole	8000-88459	362	447		
Exact12, 4-way, 5 pole	8000-88510	398	452		
Exact12, 4-way, 5 pole	8000-88511	398	452		
Exact12, 4-way, 5 pole	8000-88512	398	452		
Exact12, connection cap, 5 pole	8000-88559	398	452		
Exact12, connection cap, 5 pole with pot. separation	8000-88659	–	403		

Molded Homerun Cables | Cable Nos. for M12 Metall | Exact12 Universal | Exact12 Safety Distribution Boxes

Description	Type	PUR / PVC	PUR gray	PUR shielded	
Cable Standard		★★	★★★	★★★★	
M12 Metal, 4-way, 5 pole	8000-54510	–	448	–	
M12 Metal, 4-way, 5 pole	8000-54512	–	448	–	
M12 Metal, 4-way, 5 pole, shielded	8000-54513	–	–	373	
M12 Metal, 4-way, 5 pole, shielded	8000-54515	–	–	373	
M12 Metal, 4-way, 5 pole, with potential separation	8000-54610	374	–	–	
M12 Metal, 4-way, 5 pole	8000-54712	–	–	401	
M12 Metal, 8-way, 5 pole	8000-58510	–	452	–	
M12 Metal, 8-way, 5 pole	8000-58511	–	452	–	
M12 Metal, 8-way, 5 pole	8000-58512	–	452	–	
M12 Metal, 8-way, 5 pole	8000-58513	–	–	401	
M12 Metal, 8-way, 5 pole	8000-58515	–	–	401	
M12 Metal, 8-way, 5 pole, with potential separation	8000-58610	403	–	–	
Exact12 Universal, 4-way, 5 pole	8000-84712	398	452	–	
Exact12 Universal, 4 pole + ground	8000-94712	412	–	–	
Exact12 Safety, 8-way, 5 pole, w/o electrical feedback	8000-98710	407	–	–	
Exact12 Safety, connection cap, 5 pole	8000-98749	–	408	–	
Exact12 Safety,	8000-987A0	407	–	–	
Exact12 Safety	8000-987A9	–	408	–	

M12 Plug Connection | Cable Nos. for M12 Connection Cables

Description	Type	PVC	PUR gray	PUR black	PUR suitable for robots
Cable Standard		★	★★	★★★★	★★★★★
open ended wires, M12 female, straight, 8 pole	7000-17041	293	295	722	377
open ended wires, M12 female, 90°, 8 pole	7000-17061	293	295	722	377
M12 connection cable, male straight/female straight 8 pole	7000-48001	293	295	722	377
M12 connection cable, male straight/female 90° 8 pole	7000-48011	293	295	722	377
M12 connection cable, male 90°/female 90° 8 pole	7000-48021	293	295	722	377
M12 connection cable, male 90°/female straight 8 pole	7000-48031	293	295	722	377
open ended wires, M12 female, straight, 12 pole	7000-19041	702	301	705	302
open ended wires, M12 female, 90°, 12 pole	7000-19061	702	301	705	302
M12 connection cable, male straight/female straight 12 pole	7000-53001	702	301	705	302
M12 connection cable, male straight/female 90° 12 pole	7000-53011	702	301	705	302
M12 connection cable, male 90°/female 90° 12 pole	7000-53021	702	301	705	302
M12 connection cable, male 90°/female straight 12 pole	7000-53031	702	301	705	302



stay connected

➔ www.murrelektronik.com

The information contained herein has been compiled with the utmost care. Liability for the correctness, completeness and topicality of the information is restricted to gross negligence.

Our company embraces social responsibility in all aspects of our business activities. Our brochures are printed using environmentally friendly production techniques and products.

