

# MOBILE AUTOMATION

Industrial connectivity for outdoor applications



We connect your Innovation





Mintec has proudly focused on **mobile automation** for years. For us this means having to deal with extreme environments: concrete **mixers**, **cranes**, **operating machines**, etc. are all vehicles that operate outdoors, subject to strong vibrations, dust, liquids and lubricants.

For this reason, our connectors must be robust, flexible even at low temperatures and waterproof, that's why we choose high quality materials and design every component for the most extreme applications.

## INNOVATIVE SOLUTIONS FOR VALVES AND CIRCULAR CONNECTORS

### MOLDED DIN CONNECTORS - INTEGRATED PUR GASKET

- > Abrasion resistance
- > High low temperature flexibility
- > Excellent hydrolytic stability
- > Oils, Fuels and Solvent Resistance



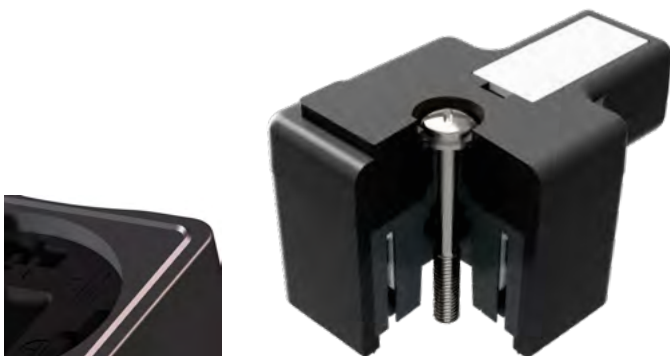
#### NOT LOOSING SCREW

Inside the body a conical profile acts as a retention system for the screw.



#### IP67 LOCKING SYSTEM

Molding a layer of 0.5 mm of PUR over a harder polyamide support, we create an integrated gasket that is compressed by the underhead washer screw.



#### INTEGRATED PUR GASKET

Under the connector we mold a 0.5 mm PUR profile that acts as an integrated O-ring. Thanks to the mnemonic properties of PUR, these innovative sealing solutions maintain a stable compression over time, making our DIN connectors safely waterproof in the most harsh conditions and in presence of strong vibrations.

### B12 BAYONET LOCKING - QUICK AND SAFE

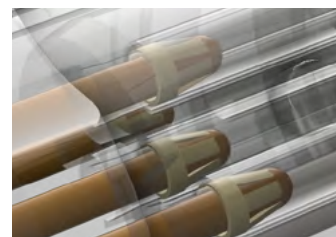
Manufactured according to IEC 61076-2-011 standard, the B12 Bayonet locking guarantees a faster, safer and easier connection. The snap coupling allows you to have confirmation of the perfect closure by an acoustic "Click" and no torque wrench is required. Due the excellent behavior against vibrations and shocks this system can overcome the IEC 61373:2010 requirements, making this connection suitable for railway and transportation fields.

The Bayonet M12 Female configuration is backwards compatible with the current threaded M12 standard.

### PRESS-FIT TECHNOLOGY

These female pins for M12 include a specific ring for clipping the male pins, maintaining a stable contact even with strong vibrations and mechanical stresses.

This feature guarantees that there is no possibility to lose the connection in every extreme condition.



### MIL CRIMPING

Our crimping tools are MIL m22520/2-01 compliant, for an unfailing everlasting connection.





## PRE-WIRED CONNECTORS ADVANTAGES

We promote pre-wired solutions with a wide range of moulded connectors. This installation concept brings many advantages to our customers that have to deal with outdoor heavy-duty vehicles. For this reason, we enlarged our portfolio including the PP over-mold version of **Deutsch** and **Junior Timer** connectors.

### GUARANTEE WATERPROOF

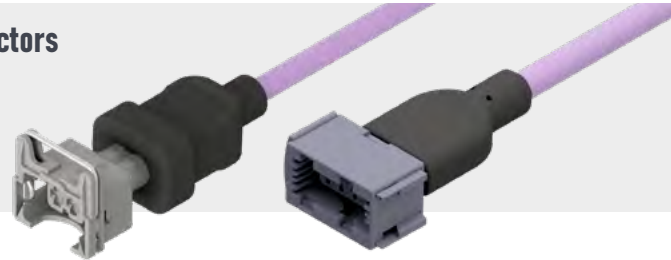
Pre-wired connections are the easiest way to achieve a reliable protection to liquids. The molding process prevents water infiltration even from cable inlet.

- > DT06-2S
- > DT06-4S
- > DT06-6S



### Junior Timer connectors

- > 2 poles male
- > 2 poles female
- > 4 poles A code
- > 4 poles B code



### QUICK INSTALLATION / FAST TROUBLESHOOTING

Pre-wired connectors simplify and speed up both electrical projects and wiring. There is no need of junction boxes, so sizing and mechanical design can benefit of this wiring concept. Clamps, terminals and manual wiring are replaced by simple connectors mating and standard pinouts. In addition, our production is 100% tested for a quick and operational installation.

## PRODUCT RANGE FOR CONTROL UNITS

- > M12 A code complete range connectors for CAN and DeviceNET protocols
- > Passive HUB distributors for star topology and daisy chain BUS connection
- > Metal thread in all passive boxes
- > All Mintec distribution boxes and CAN HUBS are mounting the Bayonet system IEC 61076-2-011



## HIGH QUALITY CABLES

Thanks to the careful selection of materials, Mintec is able to guarantee the right cable for each application. Often special vehicles deals with hazardous materials, in this case we can provide our connectors with **ADR** compliant cables (**European Agreement concerning the International Carriage of Dangerous Goods by Road**).

### PUR UL CABLES

- > Good resistance to chemical and oils
- > Good abrasion and mechanical stress resistance
- > For dynamic applications / drag chain installations
- > Up to 2.000.000 complete bending cycles
- > -25°C .. +80°C temperature range

### PUR CABLES

- > Good resistance to chemical and oils
- > Good abrasion and mechanical stress resistance
- > For mild dynamic applications
- > Halogen free
- > 25°C .. +80°C temperature range



Length	Female straight M12	Male straight M12	Female angled M12	Male angled M12	Length	double ended M12
<b>PUR BLACK CABLE 5x0.34mm<sup>2</sup></b>						
3m	43041-031	43201-031	43121-031	43281-031	0.3m	44220-190
5m	43041-051	43201-051	43121-051	43281-051	0.6m	44220-191
10m	43041-101	43201-101	43121-101	43281-101	1.5m	44220-192
<b>PUR UL BLACK CABLE 5x0.34 mm<sup>2</sup></b>						
3m	43043-030	43203-030	43123-030	43283-030	0.3m	44220-300
5m	43043-050	43203-050	43123-050	43283-050	0.6m	44220-301
10m	43043-100	43203-100	43123-100	43283-100	1.5m	44220-302



Length	form A	form A double valve int.150 mm	Length	double ended form A - M12	Length	double ended form A double valve int.150 mm - M12
<b>PUR BLACK CABLE cross section 0.75mm<sup>2</sup></b>						
1.5m	48044-000	40100-100	0.3m	45301-020	1.5m	40100-200
3m	48044-001	40100-101	0.6m	45301-021	3m	40100-201
5m	48044-002	40100-102	1.5m	45301-022	5m	40100-202
<b>EO circuit with transient suppression TRANSIL and 24V yellow bipolar LED</b>						
1.5m	48144-165	40100-031	0.3m	45301-035	1.5m	40100-203
3m	48144-166	40100-004	0.6m	45301-036	3m	40100-204
5m	48144-152	40100-005	1.5m	45301-037	5m	40100-205
<b>PUR UL BLACK CABLE cross section 0.75mm<sup>2</sup></b>						
1.5m	48084-000	40100-130	0.3m	45303-020	1.5m	40100-230
3m	48084-001	40100-131	0.6m	45303-021	3m	40100-231
5m	48084-002	40100-132	1.5m	45303-022	5m	40100-232
<b>EO circuit with transient suppression TRANSIL and 24V yellow bipolar LED</b>						
1.5m	48184-165	40100-133	0.3m	45303-036	1.5m	40100-233
3m	48184-166	40100-134	0.6m	45303-035	3m	40100-234
5m	48184-167	40100-135	1.5m	45303-037	5m	40100-235





Length	DT06-2S	DT06-4S	DT06-6S	Length	double ended DT06-2S - M12	double ended DT06-4S - M12
<b>PUR BLACK CABLE cross section 0.75mm<sup>2</sup></b>						
3m	62501-100	62521-100	62541-100	0.3m	45501-100	45521-100
5m	62501-101	62521-101	62541-101	0.6m	45501-101	45521-101
10m	62501-102	62521-102	62541-102	1.5m	45501-102	45521-102
<b>PUR UL BLACK CABLE cross section 0.75mm<sup>2</sup></b>						
3m	62503-100	62523-100	62543-100	0.3m	45503-100	45523-100
5m	62503-101	62523-101	62543-101	0.6m	45503-101	45523-101
10m	62503-102	62523-102	62543-102	1.5m	45503-102	45523-102



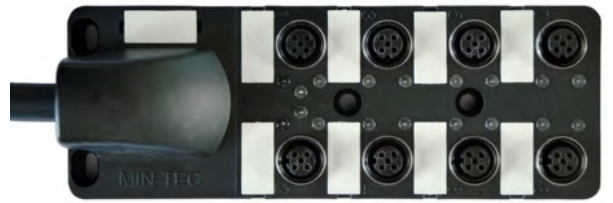
Length	Female Junior Timer 2 pin	Male Junior Timer 2 pin	Female Junior Timer 4 pin A-code	Length	double ended 2 pin Female Junior Timer - M12	double ended 4 pin Female Junior Timer - M12
<b>PUR BLACK CABLE cross section 0.75mm<sup>2</sup></b>						
3m	62001-100	62011-100	62101-100	0.3m	45001-100	45011-100
5m	62001-101	62011-101	62101-101	0.6m	45001-101	45011-101
10m	62001-102	62011-102	62101-102	1.5m	45001-102	45011-102
<b>PUR UL BLACK CABLE cross section 0.75mm<sup>2</sup></b>						
3m	62003-100	62013-100	62103-100	0.3m	45003 -100	45013 -100
5m	62003-101	62013-101	62103-101	0.6m	45003 -101	45013 -101
10m	62003-102	62013-102	62103-102	1.5m	45003 -102	45013 -102



Length	double ended B12 - M12	double ended from A - B12	double ended DT06 - 2S - B12	double ended 2 pin female Junior Timer - B12
<b>PUR CABLE 5x0.34mm<sup>2</sup></b>				
0.3m	34220-190	35301-020	35501-100	35001-100
0.6m	34220-191	35301-021	35501-101	35001-101
1.5m	34220-192	35301-022	35501-102	35001-102
<b>PUR UL CABLE 5x0.34mm<sup>2</sup></b>				
<b>PUR UL CABLE cross section 0.75mm<sup>2</sup></b>				
0.3m	34220-300	35303-020	35503-100	35003-100
0.6m	34220-301	35303-021	35503-101	35003-101
1.5m	34220-302	35303-022	35503-102	35003-102



M12 DISTRIBUTION BOXES



Length Pre-wired distribution box 4 ways 5 pin with LED

Pre-wired distribution box 8 ways 5 pin with LED

PUR BLACK CABLE 3G0.75mm <sup>2</sup> + 8x0.34mm <sup>2</sup>		PUR BLACK CABLE 3G0.75mm <sup>2</sup> + 16x0.34mm <sup>2</sup>	
5m	47071-000		47111-000
10m	47071-001		47111-001
15m	47071-002		47111-002
PUR UL BLACK CABLE 3G0.75mm <sup>2</sup> + 8x0.34mm <sup>2</sup>		PUR UL BLACK CABLE 3G0.75mm <sup>2</sup> + 16x0.34mm <sup>2</sup>	
5m	47073-000		47113-000
10m	47073-001		47113-001
15m	47073-002		47113-002

FIELD WIREABLE

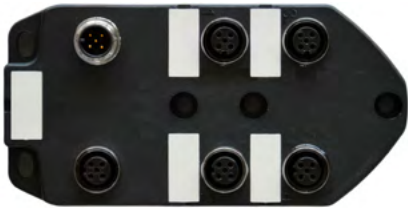


Cable Diameter	Female 5 poles	Male 5 poles	Angled female 5 poles	Angled male 5 poles
PG7	46420-002	46480-002	46540-002	46600-002
PG9	46420-003	46480-003	46540-003	46600-003

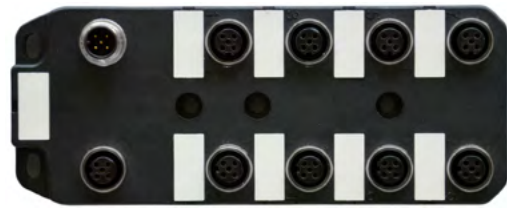




Length	male straight M12 A code	female straight M12 A code	male angled M12	female angled M12	Length	double ended M12
<b>2x2xAWG22 PUR UL Violet cable</b>						
2m	43773-000	43753-000	43783-000	43763-000	0.3m	44850-300
3m	43773-001	43753-001	43783-001	43763-001	0.6m	44850-301
5m	43773-002	43753-002	43783-002	43763-002	1.5m	44850-302
<b>1x2xAWG22 + 1x2xAWG24 PUR UL Violet cable</b>						
2m	43923-000	43903-000	43933-000	43913-000	0.3m	44940-300
3m	43923-001	43903-001	43933-001	43913-001	0.6m	44940-301
5m	43923-002	43903-002	43933-002	43913-002	1.5m	44940-302



M12 Passive HUB



M12 Passive HUB

distribution system for CanOpen/Devicenet 4 ports + IN/OUT  
47209-000

distribution system for CanOpen/Devicenet 8 ports + IN/OUT  
47209-002





## Mintec - Creativity, Passion, Innovation. "The Quality Connection"

Our long and consolidated experience in the connection sector, combined with our passion and creativity, have led us to create quality products that are highly appreciated in the "outdoor" sectors: connectors suitable for heavy-duty applications, where resistance and continuity of service are required, even when subjected to significant stress, vibrations, large temperature ranges, in the continuous presence of dust and liquids.

We transfer this know-how to our products on a daily basis, with consequent advantages in addition to the basic characteristics found in more widely used products, guaranteeing, for example, compliance with IP67 on all products and IP68 where the customer requires it.

Our connectors are therefore developed, manufactured and marketed with the expertise and passion that sets us apart and is expressed in the product itself.

As certified operators, we work in compliance with ISO 9001:2015 standards. Furthermore, being in close contact with the main certification bodies for the Approvals of its products, Mintec offers numerous products with the UL mark. All this in a "Green" context that sees our company working in energy autonomy thanks to its own photovoltaic system.

Mintec means Quality also in the customer service, from the initial activities of support to the connection project, to the customisation of the product or the simple choice of the standard connector, up to a careful after-sales service.



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