

Smart config

Multi coupling solutions | Automotive



Applications

- Assembly
- Testing

Summary	Product overview	2	DuraDock multi	5
	Modularity principles	3	DuraDock power	6
	Quick coupling SPC	4	CombiTac uniq	7

Designed to drive your productivity



Patent pending



Smart config is the best solution for automation in the automotive industry:

Fast to configure, easy to integrate, built for performance.

Key advantages



Maximum flexibility
Modularity for tailored configurations.



Boosted productivity
Facilitate rapid interface connections, optimizing production speed and minimizing errors.



Fast and clear quoting
Get your solution configured in real time and receive a clear, instant quote — right in front of you.



Enhanced safety
Reliable and secure connections for peace of mind.



Streamlined maintenance
Faster interventions and less downtime thanks to durable components and accessible layouts.



Optimized delivery
Standard products available for short-term delivery.

Modularity principles

External Modules

1 Choose connection type

Automatic or
Manual (with toggles)

2 Choose floating device

Parallel (as standard, 0°, Ø 6mm
or
Angular (in option, ±0.5°), Ø 6mm

3 Choose guiding elements

Guiding pin:
Receiver or supply side

4 Choose up to 6 electrical connectors⁽²⁾ among:

- DuraDock multi G2 / DuraDock power 16
- DuraDock multi G3 / DuraDock power 28

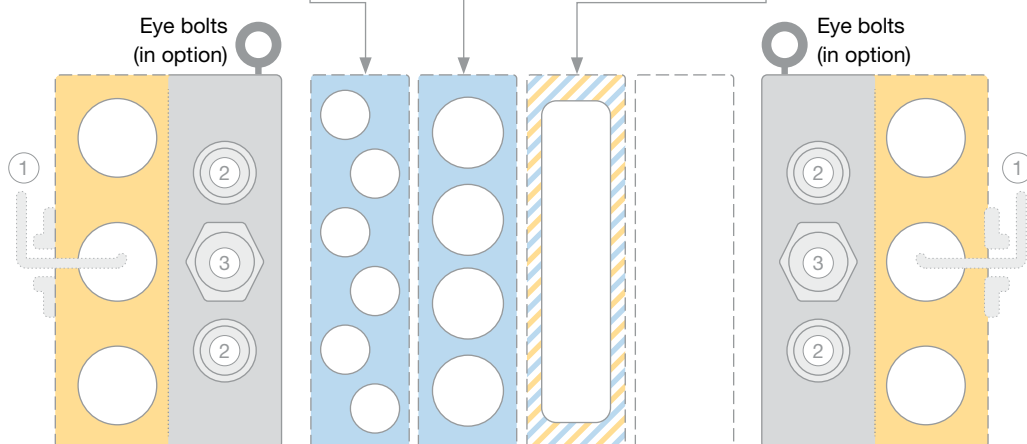
Internal Modules

5 Choose up to 4 modules⁽¹⁾ and select products among:

- Quick coupling SPC 08
(max 6 per module)

- Quick coupling SPC 12
(max 4 per module)

- CombiTac uniq
(1 per module)



How to choose your electrical connector?

	DuraDock multi G2 & G3	DuraDock power	CombiTac uniq
	High-performance connector 	High-performance connector 	Modular connector 
Nbr of poles	multipole 2+PE - 36+PE	single-pole	multipole
Conductor cross-section	0.5 mm² - 35 mm²	35 mm² - 95 mm² 120 mm² - 240 mm²	0.14 mm² - 120 mm²
Rated current	up to 150A	up to 630A	up to 720A
Mating cycles	up to 1,000,000	up to 100,000	up to 100,000
IP	IP67	IP54, IP2X	up to IP2X
Other electrical signals	-	-	Coaxial, fiber, RJ45...
Pneumatic/hydraulic	-	-	Ø3 - Ø8 mm

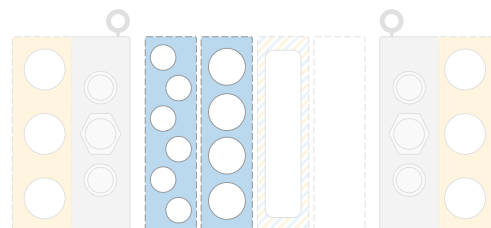
(1) For manual version, choose up to 3 modules only.

(2) For manual version, choose up to 4 electrical connectors only.



Quick coupling SPC 08 & 12

Non spill quick release & pocket mounting coupling



Customer benefits



Clean and secure coupling

The flat-faced, pollution-free design ensures long-term fluid integrity.



Exceptional durability

Designed for intensive use, ideal for demanding industrial environments.



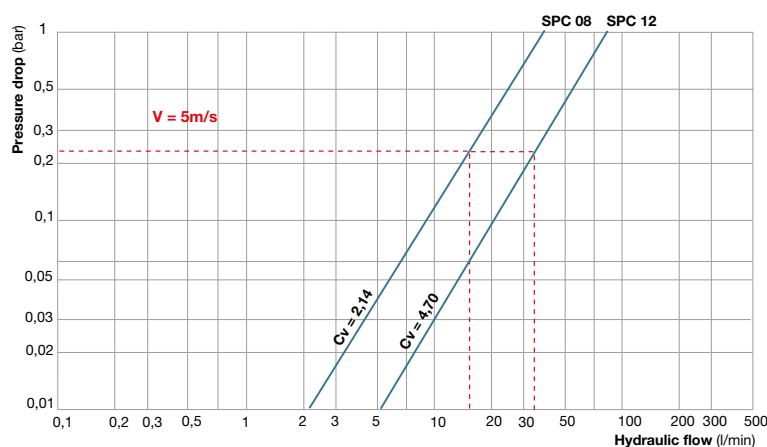
Simplified maintenance

No direct connection between hose/pipe and plug/socket makes servicing fast and easy.

Technical data

	SPC 08	SPC 12
Flow (l/min)	15.1	33.9
Nominal bore (mm)	8	12
Max. Working pressure (bar)	16	16
Volume of air introduced* at connection (cm³)	0.055	0.063
Spillage* at disconnection (cm³)	0.026	0.038
Volume of liquid displaced (cm³)	- Socket side	2.26
	- Plug side	2.00
		5.59

Hydraulic charts flow rate / pressure drop



For use outside the indicated temperature ranges: Contact us.

* These are not cumulative values: they decrease with the number of cycles.

** The minimal temperatures of use are given for static conditions and exempt from mechanical stress.

*** Important! The use and any contact of this seal with fluids of mineral origin (oil, fat...) is highly inadvisable.

Construction

High-resistance stainless steel.

Sealing

Depending upon the type of seal**

Types of seal	Operating temperatures
Fluorocarbon (FPM) /JV	- 10 to + 150 °C
Ethylene-Propylene (EPDM)*** /JE	- 20 to + 150 °C

Part-numbers

SPC socket	Part-numbers
SPC08	SPC08.2000/IA/JV or JE
SPC12	SPC12.2000/IA/JV or JE

SPC plug	Part-numbers
SPC08	SPC08.5000/IA/JV or JE
SPC12	SPC12.5000/IA/JV or JE
SPC08 - Full flow	SPC08.5000/IA/JV/OS
SPC12 - Full flow	SPC12.5000/IA/JV/OS

Shut off

Double shut off

- Socket and plug with automatic shut-off: standard
Example:
socket **SPC08.2000/IA/JV** + plug **SPC08.5000/IA/JV**

Single shut off

- Socket with automatic shut-off and full flow plug add /OS code at the end of the plug part number
Example:
socket **SPC12.2000/IA/JV** + plug **SPC12.5000/IA/JV/OS**

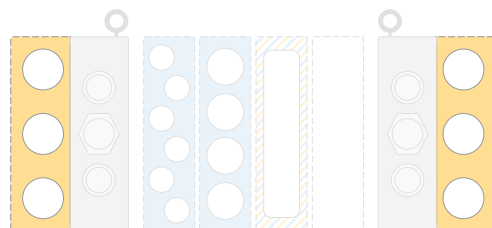
Test conditions

- Fluid: Water
- Viscosity: 1.08 cSt at 40° C
- Density: 998 Kg/m³
- Direction of flow: Socket → Plug
- at 40° C



DuraDock multi size G2-G3

Multi-pole
high performance
connectors



Customer benefits



Durable and reliable

Up to 1 million mating cycles for long-term performance.



Flexible configurations

Combine data, signals, and high-current in one solution.



Safe and easy to use

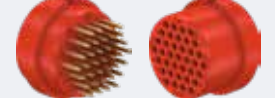
Robust, reliable and user-friendly.



Proven contact technology

MULTILAM technology ensures constant performance.

Technical data

NBR	Number of poles	Rated voltage (V)
Signal applications		
	15+PE - 36+PE	25 - 250
Hybrid applications (on demand)		
	3+PE+4	250 - 830
Power applications		
	4+PE - 15+PE	250 - 400
High Current applications		
	2+PE - 6+PE	400 - 630
Silicone (SIL) (on demand)		
	6+PE - 36+PE	250 - 830

Carrier size	G2 & G3
Housing version	MGA2/REA02 MGA3/REA03
Number of poles	from 3 (2+PE) to 37 (36+PE)
Rated voltage	max. 830 V
Rated current	max. 150 A
Pollution degree Overvoltage category	3 CAT III
Cable outlet	straight / angled 90°
Contact material	CuZn alloy; silver or gold plated
Protection type, plugged in	IP67
Safety class	II
Conductor cross-section	0.5 mm ² - 35 mm ²
Housing material	aluminium
Carrier material	NBR, SIL
Mating cycles	up to 1,000,000

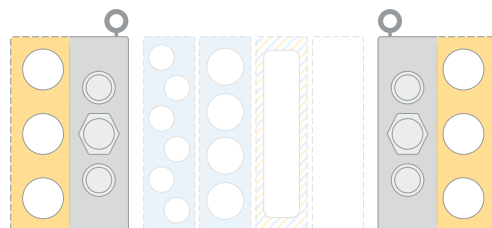


For more detailed information

related to DuraDock multi size G2-G3,
please consult DuraDock multi full range documentation

DuraDock power

Single-pole
high-performance
connector



Customer benefits



Durable and reliable

Up to 100,000 mating cycles.



Proven contact technology

MULTILAM technology ensures constant performance.



Safe and powerful

Handles high currents and voltages for demanding applications (IP2X/IP54).

Technical data

Model	Insulated version	
Number of poles	single-pole	
Rated voltage	AC 1000 V, DC 1500 V	
Rated current	Ø16 Ø28	max. 340 A max. 630 A
Pollution degree	3	
Overvoltage category	CAT III	
Cable outlet	straight / angled 90°	
Contact material	CuZn alloy, silver-plated	
Contact system	MULTILAM	

Protection type	Unplugged Plugged in	IP2X IP54
Safety class	II	
Conductor cross-section		
DuraDock power 16	35 mm ² – 95 mm ² (2 AWG – 3/0 AWG)	
DuraDock power 28	120 mm ² – 240 mm ² (250 MCM...450 MCM)	
Housing material	PA	
Insulation material	POM	
Mating cycles	up to 100,000	
Ambient temperature	-10 °C to +40 °C	

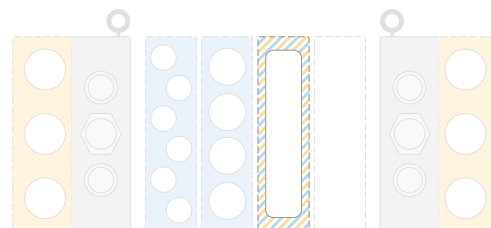


For more detailed information

related to DuraDock power 16 & 28 insulated versions,
please consult DuraDock power full range documentation

CombiTac uniq

Modular connector



Customer benefits



Durable and reliable

Up to 100,000 mating cycles.



Fully customizable



All-in-one modularity

Combine power, signal, data, fluid, and pneumatic connections in a single compact solution.



Quick and easy configuration thanks to online configurator

Technical data

Model	uniq
High Voltage	max. 5 kV
Rated current	max. 720 A
Pollution degree Overvoltage category	2 - 3 (see CombiTac documentation) CAT II - CAT III (see CombiTac documentation)
Electrical signals	Signal, power, Data/Ethernet (up to 10 Gbit), Coaxial, Fiberoptic, thermocoupling
Protective grounding	Through end pieces
Protection type	Up to IP2X
Fluid	Pneumatic & hydraulic
Conductor cross-section	0.14 mm ² - 120 mm ²
Supporting rail material	Aluminium
Carrier material	PA, EPTR, PEEK, LCP
Mating cycles	Up to 100,000
Contact termination type	Crimp, PCB, screw

Please note that CombiTac uniq has been adapted for Smart config. Here are the specific parameters:

- End piece with earthing for panel mounting male
- Height → 140 mm
- Supporting rail in aluminium only

CombiTac uniq

Modular connector



Power

	Nom. Ø contact	3 mm - 12 mm; 5 mm x 42 mm
	Conductor cross-section	2.5 mm ² - 240 mm ² 14 AWG - 460 MCM
	Rated current	25 A - 720 A
	Mating cycles	100,000

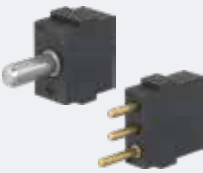
High voltage

	Nom. Ø contact	1.5 mm - 4 mm
	Conductor cross-section	1.5 mm ² - 3 mm ² 16 AWG - 12 AWG
	Voltage	Up to 5 kV
	Mating cycles	100,000

Signal

	Nom. Ø contact	0.6 mm - 1.5 mm
	Conductor cross-section	0.14 mm ² - 1.5 mm ² 26 AWG - 16 AWG
	Rated current	1,4 A - 10 A
	Mating cycles	100,000

Earthing

	Nom. Ø contact	6 mm - 8 mm
	Conductor cross-section	6 mm ² - 35 mm ² 10 AWG - 2 AWG
	Rated current	320 A - 1600 A (3s)
	Mating cycles	100,000

Data

	Nom. Ø contact	CAT6A Ethernet, CAT 5 Ethernet, Profibus, Profnet, Interbus, CAN-BUS, USB 2.0, PoE
	Termination type	Crimp, RJ45, M12, Coaxial (crimp and SAM)
	Mating cycles	100,000

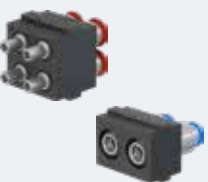
Fiber optics

	Data transmission	Glass, plastic, multimode
	Insertion loss	Glass: typisch 0.5 dB at 850/1300 nm Plastic: < 3 dB at 650 nm Lens version: < 6 dB at 650 nm
	Mating cycles	500 100,000 (lense version)

Thermocoupling

	Thermocoupling types	E, J, K, N, T
	Termination type	Crimp
	Mating cycles	100,000

Pneumatic coupling

	Nom. Ø	3 mm - 8 mm
	Max. working pressure	15 bar
	Min. working pressure	14 mbar
	Mating cycles	100,000

Fluid coupling

	Nom. Ø	3 mm - 6 mm
	Max. working pressure	15 bar
	Industrial vacuum pressure	up to 10 torr
	Mating cycles	100,000

To configure your CombiTac uniq for Smart config, please get in touch with your sales representative.



For more detailed information

related to CombiTac uniq made for Smart config,
please consult CombiTac uniq full range documentation





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