

## PN7c

- ▶ Up to 7 contacts
  - ▶ 25 A / 500 V max.
  - ▶ IP66/IP67
  - ▶ GRP or metal
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## DN9c

- ▶ Up to 9 contacts
  - ▶ 30 A / 415 V max.
  - ▶ IP54/IP55
  - ▶ Metal
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## PN12c

- ▶ Up to 12 contacts
  - ▶ 16 A / 480 V max.
  - ▶ IP66/IP67
  - ▶ GRP or metal
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# RANGE SIGNAL & CONTROL

MARECHAL® multicontact connectors are used for signal and control applications such as temporary phone lines and control of overhead cranes. The solid silver-nickel contacts assure superior conductivity, electrical performance and durability. Also the materials used for the bodies resist extreme conditions in harsh environments.

Find all information on our website:



[marechal.com](http://marechal.com)



Technical documentation



Product configurator



## DN20c

- ▶ Up to 20 contacts
- ▶ 25 A / 415 V max.
- ▶ IP54/IP55
- ▶ Metal

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## DSN24c

- ▶ Up to 24 contacts
- ▶ 16 A / 415 V max.
- ▶ IP66/IP67
- ▶ GRP

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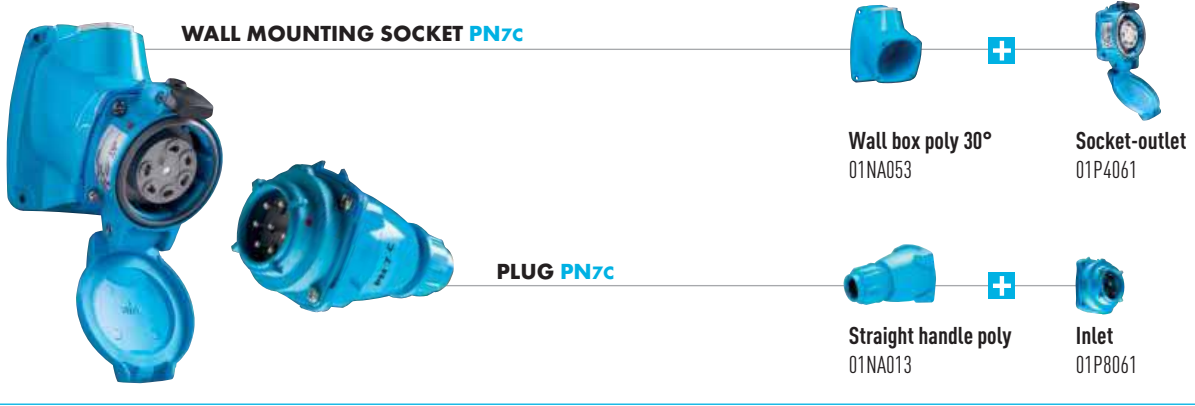


## DSN37c

- ▶ Up to 37 contacts
- ▶ 16 A / 415 V max.
- ▶ IP66/IP67
- ▶ GRP

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TYPICAL CONFIGURATION



### MAIN FEATURES

Rated current/contact (wiring according to standard)	25 A	Shock resistance (metal casing)	IK09
Σ of currents (contacts)	≤ 130 A	Ambient temperature	-40 °C to +60 °C
Maximum voltage	500 V	Flexible wiring (min-max)	1 - 4 mm <sup>2</sup>
IP protection lid closed	IP66/IP67	Stranded wiring (min-max)	1 - 6 mm <sup>2</sup>
IP protection connected plug	IP66/IP67	Wiring (terminals)	screw-type
Shock resistance (poly casing)	IK08	Keying positions	5

**SOCKET-  
OUTLET** female  
**PN7c (16/25 A)**  
**GRP**



**INLET** male  
**PN7c (16/25 A)**  
**GRP**



Umax	Polarity	Part no.	Part no.
50 V	5P (25 A)	01P4050	01P8050
50 V	6P (16 A)	01P4060	01P8060
50 V	7P (16 A)	01P4070	01P8070
500 V	4P+E (25 A)	01P4041	01P8041
500 V	5P+E (25 A)	01P4051	01P8051
500 V	6P+E (16 A)	01P4061	01P8061

Note: When using two different voltages on the same site, thank you for contacting us.

**SOCKET-  
OUTLET** female  
**PN7c (16/25 A)**  
**METAL**



**INLET** male  
**PN7c (16/25 A)**  
**METAL**



Umax	Polarity	Part no.	Part no.
50 V	5P (25 A)	09P4050	09P8050
50 V	6P (16 A)	09P4060	09P8060
50 V	7P (16 A)	09P4070	09P8070
415 V	4P+E (25 A)	09P4041	09P8041
415 V	5P+E (25 A)	09P4051	09P8051
415 V	6P+E (16 A)	09P4061	09P8061

**BOXES**

Cable gland not included



Wall box poly 30°



Wall box poly straight



Wall box metal straight



Wall box metal + inclined metal 45°



Wall box poly + inclined poly 70°

Entry	01NA053	01NA055	09NA055	09NA653	09NA653418	09NA653419	Not drilled and without cable gland Part no. 51AA058
M20	01NA053	01NA055	09NA055	09NA653	09NA653418	09NA653419	Not drilled and without cable gland
M25					09NA653418		Part no. 51AA058
M32					09NA653419		Part no. 51AA058

**SLEEVES**



Inclined poly 30°

611A057



Inclined metal 30°

09NA027



Inclined poly 70°

51AA757

**HANDLES**



Straight poly



Angled poly



Straight poly with poly cable gland



Straight metal with metal cable gland



Straight poly without cable gland with metric threaded entry

9-18 mm	01NA013	01NA313	5-12 mm	01NA753	7-13 mm	09NA963	M20	01NA253417
5-21 mm	611A413		8-18 mm	01NA25325P	8-16 mm	09NA95325M	M25	01NA253418
			14-25 mm	01NA25332P	16-24 mm	09NA95332M	M32	01NA253419



**ACCESSORIES & OPTIONS**

**Locking with padlock (ø 4 mm) without shaft (padlocks not supplied)**

Socket no. + 843



**Screw locking imprint BTR 2,5**

Socket no. + 22



**Reversed interior and contacts (inlet cap is included)**

Inlet no. + 001

Socket no. + 001



**IP55 self-closing lid (Socket-outlet)**

Replace P by S

Eg: 400 V 3P+N+E poly = 01S4017



**Inlet cap**

01NA126



**Self-returning lid**

**180° opening lid**

**180° opening and self-returning lid**

Socket no. + R

Socket no. + 10

Socket no. + 18

TYPICAL CONFIGURATION



**WALL MOUNTING SOCKET DN9c**



**PLUG DN9c**



**Wall box metal 20°**  
191A053



**Socket-outlet**  
1914081



**Straight handle poly**  
191A013



**Inlet**  
1918081

### MAIN FEATURES

Rated current/contact (wiring according to standard)	30 A	Ambient temperature	-40 °C to +60 °C
Σ of currents (contacts)	≤ 210 A	Flexible wiring (min-max)	1 - 6 mm <sup>2</sup>
Maximum voltage	415 V	Stranded wiring (min-max)	1,5 - 10 mm <sup>2</sup>
IP protection lid closed	IP55	Wiring (terminals)	screw-type
IP protection connected plug	IP54	Keying positions	2
Shock resistance	IK09		

**SOCKET-OUTLET** female DN9c (30 A)  **INLET** male DN9c (30 A) 

Umax	Polarity	Part no.	Part no.
50 V	6P	1914060	1918060
50 V	7P	1914070	1918070
50 V	8P	1914080	1918080
50 V	9P	1914090	1918090
415 V	5P+E	1914051	1918051
415 V	6P+E	1914061	1918061
415 V	7P+E	1914071	1918071
415 V	8P+E	1914081	1918081

**Note:** When using two different voltages on the same site, thank you for contacting us.

AUXILIARY CONTACTS	
Including 2 pilot contacts (30 A)	Socket no. + 262
Including 2 pilot contacts (30 A)	Inlet no. + 262
Including 4 pilot contacts (30 A)	Socket no. + 264
Including 4 pilot contacts (30 A)	Inlet no. + 264

**BOXES**

Cable gland not included



Wall box metal 20°

Wall box metal + inclined metal 70°

Wall box metal + inclined metal 30°

Wall box metal + straight metal sleeve

Entry				
M20	191A053	873A053417	191A653	191A095
M25	191A053418	873A053	191A653418	191A095418
M32	191A053419	873A053419	191A653419	191A095419
M40		873A053420	191A653420	191A095420

**SLEEVES**



Inclined metal 30°

Inclined metal 70°

Straight metal

191A027	873A087	191A127
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**HANDLES**



Straight poly

Straight poly with poly cable gland

Straight metal with metal cable gland

Straight poly without cable gland with metric threaded entry

10-30 mm	191A013	5-12 mm	191A753	7-13 mm	191A963	M20	191A253417
10-30 mm	191A473*	9-18 mm	191A25325P	8-16 mm	191A95325M	M25	191A253418
		14-25 mm	191A25332P	16-24 mm	191A95332M	M32	191A253419
		18-32 mm	191A25340P	22-32 mm	191A95340M	M40	191A253420

\*With built-in finger draw plate (recommended for inline connections)

**ACCESSORIES & OPTIONS**

Locking with shaft for 3 padlocks  
ø 8 mm (padlocks not supplied)

Socket no. + 844

Lockable plug: contact us

Padlocking device 1 to 6 padlocks  
873A541



E-Stop button

Socket no. + 453



Inlet cap

191A126



180° opening lid

Self-returning lid

180° opening and self-returning lid  
IP66/IP67 (socket & inlet)

Socket no. + 10

Socket no. + R

Socket no. + 18

Part no. + 600

**TYPICAL CONFIGURATION**

**WALL MOUNTING SOCKET PN12C**

**PLUG PN12C**

Wall box poly 30°  
01NA053

Socket-outlet  
01A4001

Straight handle poly  
01NA013

Inlet  
01A8001

## ELECTRICAL FEATURES

Maximum voltage	480 V
Impulse withstand voltage	5 kV / Pollution degree 3
Contact resistance	< 2mΩ
Permitted current range	4-20 mA / 16 A
Rated current percontact (max)	16 A
Total current carried	≤ 110 A
Flexible wiring (min-max)	1 - 2,5 mm <sup>2</sup>
Wiring (terminals)	Crimp type terminals (tool optional) or directly soldered
Keying positions	2

## CLIMATIC FEATURES

Ambient temperature	-40 °C to +60 °C
IP protection connected plug	IP66/IP67
IP protection lid closed	IP66/IP67
Salt, Fog performance	200 hrs minimum connected
Resistance to fluids	Motor oils, petrol, fats, detergents...

## MECHANICAL FEATURES

Butt contacts	Female contacts: copper alloy silver plated / Male contacts: Silver-nickel tips
Contact protection	Silvering
Load cycles	More than 5000 cycles
Shock resistance (poly casing)	IK08
Shock resistance (metal casing)	IK09
Vibration	Frequency 5-1000 Hz, 1g / (90 minutes on each critical frequency) according to IEC 6068-2-6

**SOCKET-  
OUTLET** female  
**PN12C (16 A)**



**INLET** male  
**PN12C (16 A)**



Umax	Contacts	Part no.*	Part no.*
480 V	12 contacts	01A4001	01A8001

\* The listed Part nos. call up GRP casings. For metal casings, replace prefix 01 with 09

Each product is supplied with 1 bag of 13 contacts depending on the maximum configuration. This allows you to configure the product as required.

### BAG OF 13 CONTACTS (SUPPLIED WITH INSULATION SLEEVES AND FERRULES)

Female socket-outlet Part Number	01AA213
Male inlet Part Number	01AA113

**BOXES**

Cable gland not included



Wall box poly 30°



Wall box poly straight



Wall box metal straight



Wall box metal + inclined metal 45°



Wall box poly + inclined poly 70°

Entry	01NA053	01NA055	09NA055	09NA653	09NA653418	09NA653419
M20	01NA053	01NA055	09NA055	09NA653	Not drilled and without cable gland Part no. 51AA058	
M25				09NA653418		
M32				09NA653419		

**SLEEVES**



Inclined poly 30°

611A057



Inclined metal 30°

09NA027



Inclined poly 70°

51AA757

**HANDLES**



Straight poly



Angled poly



Straight poly with poly cable gland



Straight metal with metal cable gland



Straight poly without cable gland with metric threaded entry

9-18 mm	01NA013	01NA313	5-12 mm	01NA753	7-13 mm	09NA963	M20	01NA253417
5-21 mm	611A413		8-18 mm	01NA25325P	8-16 mm	09NA95325M	M25	01NA253418
			14-25 mm	01NA25332P	16-24 mm	09NA95332M	M32	01NA253419



**ACCESSORIES & OPTIONS**

Locking with padlock (ø 4 mm) without shaft (padlocks not supplied)

Socket no. + 843



Screw locking imprint BTR 2,5

Socket no. + 22



Reversed interior and contacts (inlet cap is included)

Inlet no. + 001

Socket no. + 001



Inlet cap

01NA126



Self-returning lid

180° opening lid

180° opening and self-returning lid

Socket no. + R

Socket no. + 10

Socket no. + 18

**ACCESSORIES & OPTIONS**

Crimping tool

61CA500



Helavia sleeve expansion tool

61CA400

Bag of 13 heat shrink insulation sleeves

61CA083





## MAIN FEATURES

Rated current/contact (wiring according to standard)	25 A	Ambient temperature	-40 °C to +60 °C
Σ of currents (contacts)	≤ 350 A	Flexible wiring (min-max)	1 - 6 mm <sup>2</sup>
Maximum voltage	415 V	Stranded wiring (min-max)	1,5 - 10 mm <sup>2</sup>
IP protection lid closed	IP55	Wiring (terminals)	screw-type
IP protection connected plug	IP54	Keying positions	4
Shock resistance	IK09		

**SOCKET-  
OUTLET** female  
DN20c (25 A)



**INLET** male  
DN20c (25 A)



U <sub>max</sub>	Polarity	Part no.	Part no.
50 V	10P	1964100	1968100
50 V	11P	1964110	1968110
50 V	12P	1964120	1968120
50 V	13P	1964130	1968130
50 V	14P	1964140	1968140
50 V	15P	1964150	1968150
50 V	16P	1964160	1968160
50 V	17P	1964170	1968170
50 V	18P	1964180	1968180
50 V	19P	1964190	1968190
50 V	20P	1964200	1968200
415 V	9P+E	1964091	1968091
415 V	10P+E	1964101	1968101
415 V	11P+E	1964111	1968111
415 V	12P+E	1964121	1968121
415 V	13P+E	1964131	1968131
415 V	14P+E	1964141	1968141
415 V	15P+E	1964151	1968151
415 V	16P+E	1964161	1968161
415 V	17P+E	1964171	1968171
415 V	18P+E	1964181	1968181
415 V	19P+E	1964191	1968191

**Note:** When using two different voltages on the same site, thank you for contacting us.

**BOXES**

Cable gland not included



Wall box metal + inclined metal 70°

Wall box metal + inclined metal 30°

Wall box metal + straight metal sleeve

Entry			
M32	879A823419	196A653419	196A095419
M40	879A823420	196A653420	196A095420
M50	879A823	196A653	196A095
M63	879A823463	196A653463	196A095463

**SLEEVES**



Inclined metal 30°

Inclined metal 70°

Straight metal

196A027	879A087	196A127
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**HANDLES\***



Straight elastomer

Straight poly with metal cable gland

Straight metal with metal cable gland

Straight poly without cable gland with metric threaded entry

18-25 mm	659A013D25	35-48 mm	619A25363M	16-24 mm	196A95332M	M63	619A253463
25-35 mm	659A013D35			22-32 mm	196A963		
35-45 mm	659A013D45			34-44 mm	196A95350M		

\* For use at 135 °C, use only metal handles.

**ACCESSORIES & OPTIONS**

**Locking with shaft for 3 padlocks**  
ø 8 mm (padlocks not supplied)

Socket no. + 844

**Lockable plug: contact us**

**Padlocking device 1 to 6 padlocks**  
873A541



**E-Stop button**

Socket no. + 453



**Inlet cap**

196A126



**Closing mechanism**

Draw lever only: 196A376

Draw plate only: 196A396



**180° opening lid**

Socket no. + 10

**Self-returning lid**

Socket no. + R

**180° opening and self-returning lid**

Socket no. + 18

**IP66/IP67 (socket & inlet)**

Socket no. + 600

**TYPICAL CONFIGURATION**

**WALL MOUNTING SOCKET DSN24C**

Wall box poly 70° 51BA058 + Socket-outlet 61B4002

**PLUG DSN24C**

Straight handle poly 613A013 + Inlet 61B8002

## ELECTRICAL FEATURES

Maximum voltage	480 V
Impulse withstand voltage	5 kV / Pollution degree 3
Contact resistance	< 2mΩ
Permitted current range	4-20 mA / 16 A
Rated current percontact (max)	16 A
Total current carried	≤ 230 A
Flexible wiring (min-max)	1 - 2,5 mm <sup>2</sup>
Wiring (terminals)	crimping
Keying positions	1

## CLIMATIC FEATURES

Ambient temperature	-40 °C to +60 °C
IP protection connected plug	IP66/IP67
IP protection lid closed	IP66/IP67
Salt, Fog performance	200 hrs minimum connected
Resistance to fluids	Motor oils, petrol, fats, detergents...

## MECHANICAL FEATURES

Butt contacts	Female contacts: copper alloy silver plated / Male contacts: Silver-nickel tips
Contact protection	Silvering
Load cycles	More than 5000 cycles
Shock resistance	IK08
Vibration	Frequency 5-1000 Hz, 1g / (90 minutes on each critical frequency) according to IEC 6068-2-6

**SOCKET-  
OUTLET** female  
DSN24C (16 A)



**INLET** male  
DSN24C (16 A)



Umax	Contacts	Part no.	Part no.
480 V	24 contacts	61B4002	61B8002

Each product is supplied with 2 bags of 13 contacts depending on the maximum configuration.  
This allows you to set up the product to suit your needs.

### BAG OF 13 CONTACTS (SUPPLIED WITH INSULATION SLEEVES AND FERRULES)

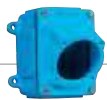
Female socket-outlet Part Number	01AA213
Male inlet Part Number	61CA113

**BOXES**

Cable gland not included



Wall box poly 30°



Wall box metal + inclined poly 30°



Wall box metal + straight metal sleeve



Wall box poly + inclined poly 70°

Entry				
M20	613A053	613A653	693A095	Not drilled and without cable gland Part no. 51BA058
M25	613A083	613A653418	693A095418	
M32		613A653419	693A095419	
M40		613A653420	693A095420	

**SLEEVES**



Inclined poly 30°

613A027



Inclined poly 70°

51BA757



Straight metal

693A127

**HANDLES**



Straight poly



Straight poly with poly cable gland



Straight metal with metal cable gland



Straight poly without cable gland with metric threaded entry

5-21 mm	613A013	5-12 mm	613A753	7-13 mm	613A963	M20	613A253417
		9-18 mm	613A25325P	8-16 mm	613A95325M	M25	613A253418
		14-25 mm	613A25332P			M32	613A253419
		18-32 mm	613A25340P			M40	613A253420

**ACCESSORIES & OPTIONS**

Locking with shaft for 3 padlocks  
ø 4 mm (padlocks not supplied)

Socket no. + 844

Locking with shaft for 2 padlocks  
ø 8 mm (padlocks not supplied)

Socket no. + Z1646

Lockable plug: contact us

E-Stop button

Socket no. + 453

Inlet cap

613A426

Closing mechanism (in-line connections)  
(a pair of finger draw plates)

613A346

180° opening lid

Socket no. + 10

Self-returning lid

Socket no. + R

180° opening and self-returning lid

Socket no. + 18



**ACCESSORIES & OPTIONS**

Crimping tool

61CA500



Helavia sleeve expansion tool

61CA400

Bag of 13 heat shrink insulation sleeves

61CA083



## ELECTRICAL FEATURES

Maximum voltage	480 V
Impulse withstand voltage	5 kV / Pollution degree 3
Contact resistance	< 2mΩ
Permitted current range	4-20 mA / 16 A
Rated current per contact (max)	16 A
Total current carried	≤ 360 A
Flexible wiring (min-max)	1 - 2,5 mm <sup>2</sup>
Wiring (terminals)	crimping
Keying positions	3

## CLIMATIC FEATURES

Ambient temperature	-40 °C to +60 °C
IP protection connected plug	IP66/IP67
IP protection lid closed	IP66/IP67
Salt, Fog performance	200 hrs minimum connected
Resistance to fluids	Motor oils, petrol, fats, detergents...

## MECHANICAL FEATURES

Butt contacts	Female contacts: copper alloy silver plated / Male contacts: Silver-nickel tips
Contact protection	Silvering
Load cycles	More than 5000 cycles
Shock resistance	IK08
Vibration	Frequency 5-1000 Hz, 1g / (90 minutes on each critical frequency) according to IEC 6068-2-6

**SOCKET-OUTLET** female  
DSN37c (16 A)



**INLET** male  
DSN37c (16 A)



Umax	Contacts	Part no.	Part no.
480 V	37 contacts	61C4003	61C8003

Each product is supplied with 3 bags of 13 contacts depending on the maximum configuration. This allows you to set up the product to suit your needs.

### BAG OF 13 CONTACTS (SUPPLIED WITH INSULATION SLEEVES AND FERRULES)

Female socket-outlet Part Number	01AA213
Male inlet Part Number	61CA113

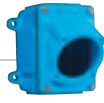


**BOXES**

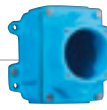
Cable gland not included



Wall box poly 30°



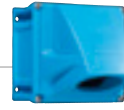
Wall box metal + inclined poly 30°



Wall box metal + straight metal sleeve



Wall box metal + inclined metal 70°



Wall box poly + inclined poly 70°

Entry	616A053	616A653	696A095	873A053	
M25	616A053	616A653	696A095	873A053	Not drilled and without cable gland Part no. 51CA058
M32		616A653419	696A095419	873A053419	
M40		616A653420	696A095420	873A053420	

**SLEEVES**



Inclined poly 30°

616A027



Inclined poly 70°

51CA757



Straight metal

696A127



Inclined metal 70°

873A087

**HANDLES**



Straight poly



Straight poly with poly cable gland



Straight metal with metal cable gland



Straight poly without cable gland with metric threaded entry

10-30 mm	616A013	5-12 mm	616A25320P	7-13 mm	616A95320M	M20	616A253417
10-30 mm	616A473*	9-18 mm	616A753	8-16 mm	616A963	M25	616A253418
		14-25 mm	616A25332P	16-24 mm	616A95332M	M32	616A253419
		18-32 mm	616A25340P	22-32 mm	616A95340M	M40	616A253420

\*With built-in finger draw plate (recommended for inline connections)

**ACCESSORIES & OPTIONS**

Locking with shaft for 3 padlocks  
ø 4 mm (padlocks not supplied)

Socket no. + 844

Locking with shaft for 2 padlocks  
ø 8 mm (padlocks not supplied)

Socket no. + Z1646

Lockable plug: contact us

E-Stop button

Socket no. + 453

Inlet cap

616A426

Closing mechanism (in-line connections)  
(a pair of finger draw plates)

616A346

180° opening lid

Socket no. + 10

Self-returning lid

Socket no. + R

180° opening and self-returning lid

Socket no. + 18



**ACCESSORIES & OPTIONS**

Crimping tool

61CA500



Helavia sleeve expansion tool

61CA400

Bag of 13 heat shrink insulation sleeves

61CA083