

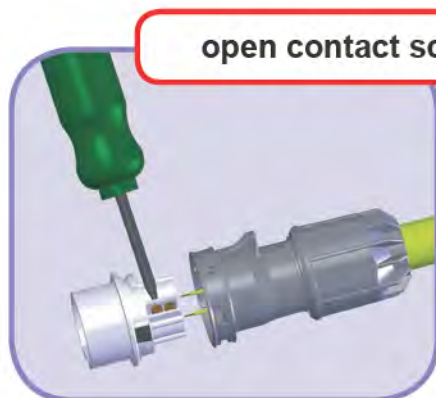
TWIST Extra-low voltage

Protective extra-low-voltage is a preventive measure **for use under extreme conditions**. The **rated voltage** (AC) is limited by **max. 50V**.

Special working conditions like conductive environment in or on boilers, pipelines, containers, metal frames or limited freedom of motion require the use of extra-low-voltage plugs and sockets.

The new “Twist” **extra-low-voltage** series provides a **complete range of plugs, connectors and flanged sockets** which meet all installation requirements, specially developed for use on building sites, shipyards and in factories. Connecting the cable is fast and reliable! No tools are needed for assembly!

ADVANTAGES:



open contact screws

ASSEMBLY WITHOUT TOOL

- multi-ramp quick lock system
- easy fitting by twist-lock action

DISMANTLING

- simply unlock and twist to open

assembly without tool



dismantling

IP66/67

watertight

IP44/54

dust- and splash-proof

VERSIONS:

- 16A and 32A
- IP44/54 and IP66/67
- Plug, connector and flanged socket
- 2p and 3p
- 24V and 42V
- DC, 50/60Hz, 100 to 500 Hz



IP44/54



IP66/67

ADVANTAGES:

- TWIST screwless cable gland for very userfriendly, quick and easy assembly
- fast cable installation
- strain relief and sealing of the cable by tightening the cable-lock gland
- maximum cable security and 100% seal
- ample connection space
- nickel-plated contacts
- easy to handle cable gland by multi-ramp quick-lock system

for cable diameters from $\varnothing$ 8 to $\varnothing$ 24mm

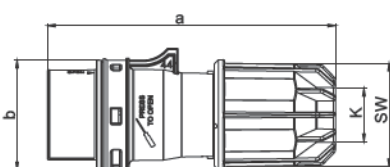


Extra-low voltage – plugs and sockets

Protective extra-low voltage

is a preventive measure for use under extreme conditions, the rated voltage (AC) is limited by max. 50V.

Special working conditions (conductive environment e.g. in or on boilers, pipelines, containers, metal frames or limited freedom of motion) require the use of extra-low voltage plugs and sockets.

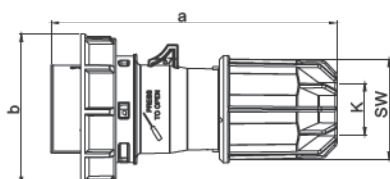


Twist Plug IP44

	16 Amp		32 Amp	
Poles	2	3	2	3
a	135	135	135	135
b	51	51	51	51
c	51	51	51	51
K_cable Ø [mm]	8-24	8-24	8-24	8-24
Connection type:	Screw terminal			
Wire flexible [mm²]	1-10			
Contact screws [Ncm]	160 Ncm			
SW	48			
Weight [g]	142	160	142	160

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP44 splashproof

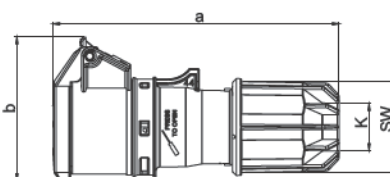


Twist Plug IP67

	16 Amp		32 Amp	
Poles	2	3	2	3
a	124	131	146	152
b	79	87	93	100
K_cable Ø [mm]	8-24	8-24	8-24	8-24
Connection type:	Screw terminal			
Wire flexible [mm²]	1-10			
Contact screws [Ncm]	160 Ncm			
SW	48			
Weight [g]	164	182	164	182

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP67 watertight

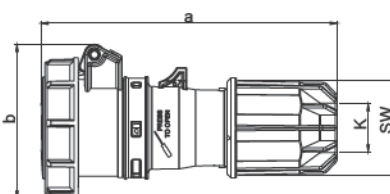


Twist Connector IP44

	16 Amp		32 Amp	
Poles	2	3	2	3
a	150	150	150	150
b	75	75	75	75
c	51	51	51	51
K_cable Ø [mm]	8-24	8-24	8-24	8-24
Connection type:	Screw terminal			
Wire flexible [mm²]	1-10			
Contact screws [Ncm]	160 Ncm			
SW	48			
Weight [g]	179	199	179	199

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP44 splashproof



Twist Connector IP67

	16 Amp		32 Amp	
Poles	2	3	2	3
a	150	150	150	150
b	78	78	78	78
c	51	51	51	51
K_cable Ø [mm]	8-24	8-24	8-24	8-24
Connection type:	Screw terminal			
Wire flexible [mm²]	1-10			
Contact screws [Ncm]	160 Ncm			
SW	48			
Weight [g]	199	219	199	219

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP67 watertight

Amp.	Poles	pack. unit	24V~ 50/60Hz without Minor key	42V~ 50/60Hz 12h	24/42V~ 100-200Hz 4h	24/42V~ 300Hz 2h	24/42V~ 400Hz 3h	24/42V~ 401-500Hz 11h	24/42V= DC 10h
			Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.

Examples:

View: socket (front)

Minor key
3 pol.



Mayor key
3 pol.

For extra-low voltage a minor key is used to distinguish voltage and frequency - see table.

Rated Voltage - V	Frequency - Hz	Clockwise position		Colour acc. to EN 60309
		2P	3P	
20 - 25	50 / 60	without Minor key	without Minor key	Violet
40 - 50	50 / 60	12	12	White
20 - 25 and 40 - 50	100 - 200	4	4	Green
	300	2	2	Green
	400	3	3	Green
	> 400 - 500	11	11	Green
	DC	10	-	White

16	2	10	062v	082-12v	082-4v	082-2v	082-3v	082-11v	082-10v	
16	3	10	063v	083-12v	083-4v	083-2v	083-3v	083-11v	083-10v	
32	2	10	072v	092-12v	092-4v	092-2v	092-3v	092-11v	092-10v	
32	3	10	073v	093-12v	093-4v	093-2v	093-3v	093-11v	093-10v	

083-3v

16	2	10	0622v	0822-12v	0822-4v	0822-2v	0822-3v	0822-11v	0822-10v	
16	3	10	0632v	0832-12v	0832-4v	0832-2v	0832-3v	0832-11v	0832-10v	
32	2	10	0722v	0922-12v	0922-4v	0922-2v	0922-3v	0922-11v	0922-10v	
32	3	10	0732v	0932-12v	0932-4v	0932-2v	0932-3v	0932-11v	0932-10v	

0622v

16	2	10	262v	282-12v	282-4v	282-2v	282-3v	282-11v	282-10v	
16	3	10	263v	283-12v	283-4v	283-2v	283-3v	283-11v	283-10v	
32	2	10	272v	292-12v	292-4v	292-2v	292-3v	292-11v	292-10v	
32	3	10	273v	293-12v	293-4v	293-2v	293-3v	293-11v	293-10v	

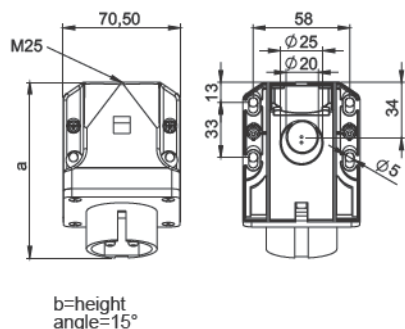
282-4v

16	2	10	2622v	2822-12v	2822-4v	2822-2v	2822-3v	2822-11v	2822-10v	
16	3	10	2632v	2832-12v	2832-4v	2832-2v	2832-3v	2832-11v	2832-10v	
32	2	10	2722v	2922-12v	2922-4v	2922-2v	2922-3v	2922-11v	2922-10v	
32	3	10	2732v	2932-12v	2932-4v	2932-2v	2932-3v	2932-11v	2932-10v	

2622v



Extra-low voltage – plugs and sockets

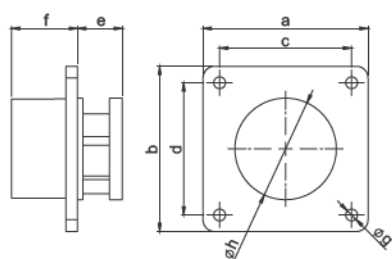


Wall mounted plug IP44

	16 Amp		32 Amp	
Poles	2	3	2	3
a	106	106	106	106
b	77	77	77	77
M	25	25	25	25
Connection type:	Screw terminal			
Wire flexible [mm²]	4-10			
solid [mm²]	4-10			
Contact screws [Ncm]	110 Ncm			
Weight [g]	165	180	165	180

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- top and rear entry
- incl. threaded cable grommet

IP44 splashproof

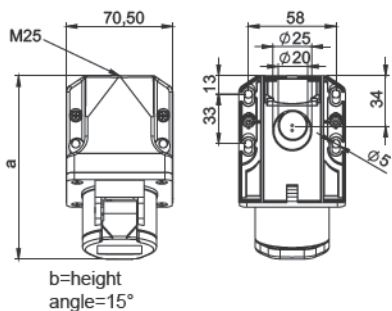


Flanged plug straight IP44

	16 Amp		32 Amp	
Poles	2	3	2	3
Flange				
a x b	70	70	70	70
Fixing center				
c x d	56	56	56	56
e	19	19	19	19
f	28	28	28	28
g	5	5	5	5
h	43	43	43	43
Connection type:	Screw terminal			
Wire flexible [mm²]	4-10			
solid [mm²]	4-10			
Contact screws [Ncm]	110 Ncm			
Weight [g]	77	93	77	93

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- According to EN 60309:
For correct use a locking device has to be provided (see page 32)

IP44 splashproof

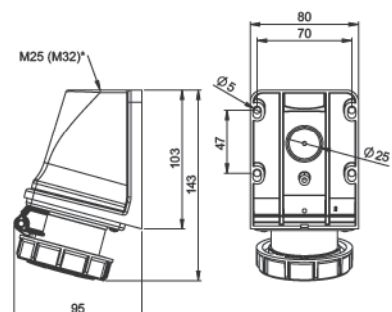


Wall socket IP44

	16 Amp		32 Amp	
Poles	2	3	2	3
a	119	119	119	119
b	85	85	85	85
M	25	25	25	25
Connection type:	Screw terminal			
Wire flexible [mm²]	1-10			
solid [mm²]	1,5-10			
Contact screws [Ncm]	110 Ncm			
Weight [g]	198	215	198	215

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- top and rear entry
- incl. threaded cable grommet

IP44 splashproof



Wall socket IP66/67

	16 Amp		32 Amp	
Poles	2	3	2	3
a	143	143	143	143
b	95	95	95	95
M	25	25	25	25
Connection type:	Screw terminal			
Wire flexible [mm²]	1-10			
solid [mm²]	1,5-10			
Contact screws [Ncm]	110 Ncm			
Weight [g]	231	251	231	251

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- top and rear entry
- incl. threaded bung

IP66/67 watertight

* Option: M32

Amp.	Poles	pack. unit	24V~ 50/60Hz without Minor key	42V~ 50/60Hz 12h	24/42V~ 100-200Hz 4h	24/42V~ 300Hz 2h	24/42V~ 400Hz 3h	24/42V~ 401-500Hz 11h	24/42V~ DC 10h
			Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.

16	2	10	562v	582-12v	582-4v	582-2v	582-3v	582-11v	582-10v
16	3	10	563v	583-12v	583-4v	583-2v	583-3v	583-11v	583-10v
32	2	10	572v	592-12v	592-4v	592-2v	592-3v	592-11v	592-10v
32	3	10	573v	593-12v	593-4v	593-2v	593-3v	593-11v	593-10v



582-12v



with flange 70 x 70 - fixing center 56 x 56									
16	2	10	662v	682-12v	682-4v	682-2v	682-3v	682-11v	682-10v
16	3	10	663v	683-12v	683-4v	683-2v	683-3v	683-11v	683-10v
32	2	10	672v	692-12v	692-4v	692-2v	692-3v	692-11v	692-10v
32	3	10	673v	693-12v	693-4v	693-2v	693-3v	693-11v	693-10v



682-12v



16	2	10	162v	182-12v	182-4v	182-2v	182-3v	182-11v	182-10v
16	3	10	163v	183-12v	183-4v	183-2v	183-3v	183-11v	183-10v
32	2	10	172v	192-12v	192-4v	192-2v	192-3v	192-11v	192-10v
32	3	10	173v	193-12v	193-4v	193-2v	193-3v	193-11v	193-10v



162v



16	2	10	1622v	1822-12v	1822-4v	1822-2v	1822-3v	1822-11v	1822-10v
16	3	10	1632v	1832-12v	1832-4v	1832-2v	1832-3v	1832-11v	1832-10v
32	2	10	1722v	1922-12v	1922-4v	1922-2v	1922-3v	1922-11v	1922-10v
32	3	10	1732v	1932-12v	1932-4v	1932-2v	1932-3v	1932-11v	1932-10v



1922-4v



Extra low voltage – plugs and sockets

Extra-low voltage: flanged sockets straight 16/32A, 2p/3p, <50V

- with screw terminals
- housing material: PA6
- contacts: nickel-plated

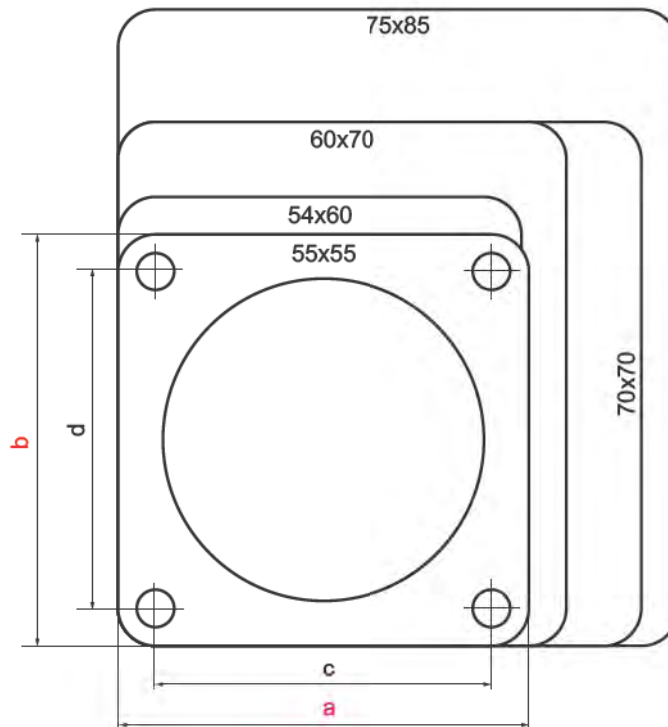
ADVANTAGES:

- reinforced lid
- **one-piece housing**
- bigger terminal connection area
- 6 different flanges available (others on request)
- **IP44/54** dust- & splashproof or
- **IP66/67** watertight



Flanged socket straight

Dimensions:



Versions:

flange		fixing-Center		page	16A		32A	
a	b	c	d	#	2p	3p	2p	3p
54	60	44	44	122-123	IP44	IP44	IP44	IP44
				124-125	IP67	IP67	IP67	IP67
55	55	41	41	122-123	IP44	IP44	IP44	IP44
55	55	45	45	122-123	IP44	IP44	IP44	IP44
60	70	47	53	122-123	IP44	IP44	IP44	IP44
70	70	56	56	122-123	IP44	IP44	IP44	IP44
75	85	60	60	122-123	IP44	IP44	IP44	IP44
				124-125	IP67	IP67	IP67	IP67



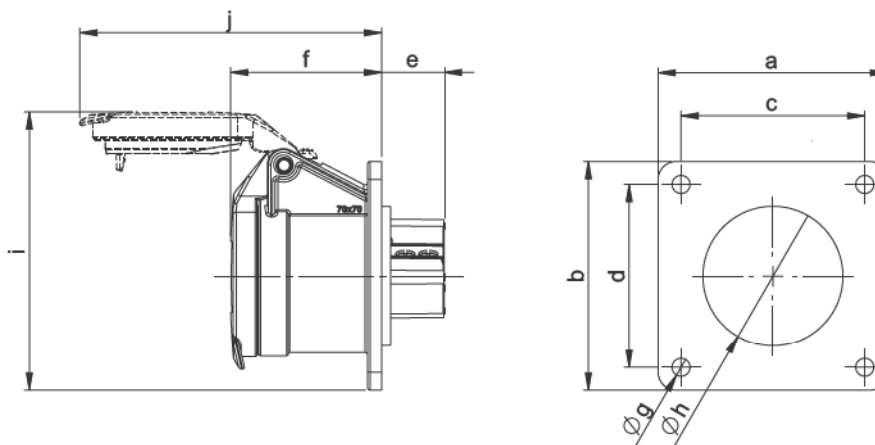
Extra-low voltage – plugs and sockets

Flanged socket straight IP44/54

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- reinforced lid
- large connection area

IP44/54

dust- & splashproof



Flange		Fixing center		Amp	Poles	e	f	Ø g	Ø h	i	j	Weight [g]
a	b	c	d									
54	60	44	44	16	2	19	47	5,5	43	81	93	109
				3	3							130
				32	2							109
				3	3							130
55	55	41	41	16	2	19	47	4,5	43	79	93	109
				3	3							129
				32	2							109
				3	3							129
55	55	45	45	16	2	19	47	4,5	43	79	93	108
				3	3							128
				32	2							108
				3	3							128
60	70	47	53	16	2	19	47	5,5	43	86	93	113
				3	3							133
				32	2							113
				3	3							133
70	70	56	56	16	2	19	47	5,5	43	86	93	118
				3	3							138
				32	2							118
				3	3							138
75	85	60	60	16	2	19	47	5,5	43	93	93	136
				3	3							146
				32	2							126
				3	3							146

- Connection type: Screw terminal
- Wire flexible: 1-10 mm²
- Wire solid: 1,5-10 mm²
- Contact screws: 110 Ncm

Flange (Fixing center)	Amp.	Poles	24V~ 50/60Hz without Minor key	42V~ 50/60Hz 12h	24/42V~ 100-200Hz 4h	24/42V~ 300Hz 2h	24/42V~ 400Hz 3h	24/42V~ 401-500Hz 11h	24/42V= DC 10h
			Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.
54 x 60 (44 x 44)	16	2	362f9v	382-12f9v	382-4f9v	382-2f9v	382-3f9v	382-11f9v	382-10f9v
	16	3	363f9v	383-12f9v	383-4f9v	383-2f9v	383-3f9v	383-11f9v	383-10f9v
	32	2	372f9v	392-12f9v	392-4f9v	392-2f9v	392-3f9v	392-11f9v	392-10f9v
	32	3	373f9v	393-12f9v	393-4f9v	393-2f9v	393-3f9v	393-11f9v	393-10f9v
55 x 55 (41 x 41)	16	2	362f4v	382-12f4v	382-4f4v	382-2f4v	382-3f4v	382-11f4v	382-10f4v
	16	3	363f4v	383-12f4v	383-4f4v	383-2f4v	383-3f4v	383-11f4v	383-10f4v
	32	2	372f4v	392-12f4v	392-4f4v	392-2f4v	392-3f4v	392-11f4v	392-10f4v
	32	3	373f4v	393-12f4v	393-4f4v	393-2f4v	393-3f4v	393-11f4v	393-10f4v
55 x 55 (45 x 45)	16	2	362f5v	382-12f5v	382-4f5v	382-2f5v	382-3f5v	382-11f5v	382-10f5v
	16	3	363f5v	383-12f5v	383-4f5v	383-2f5v	383-3f5v	383-11f5v	383-10f5v
	32	2	372f5v	392-12f5v	392-4f5v	392-2f5v	392-3f5v	392-11f5v	392-10f5v
	32	3	373f5v	393-12f5v	393-4f5v	393-2f5v	393-3f5v	393-11f5v	393-10f5v
60 x 70 (47 x 53)	16	2	362f8v	382-12f8v	382-4f8v	382-2f8v	382-3f8v	382-11f8v	382-10f8v
	16	3	363f8v	383-12f8v	383-4f8v	383-2f8v	383-3f8v	383-11f8v	383-10f8v
	32	2	372f8v	392-12f8v	392-4f8v	392-2f8v	392-3f8v	392-11f8v	392-10f8v
	32	3	373f8v	393-12f8v	393-4f8v	393-2f8v	393-3f8v	393-11f8v	393-10f8v
70 x 70 (56 x 56)	16	2	362v	382-12v	382-4v	382-2v	382-3v	382-11v	382-10v
	16	3	363v	383-12v	383-4v	383-2v	383-3v	383-11v	383-10v
	32	2	372v	392-12v	392-4v	392-2v	392-3v	392-11v	392-10v
	32	3	373v	393-12v	393-4v	393-2v	393-3v	393-11v	393-10v
75 x 85 (60 x 60)	16	2	362f87v	382-12f87v	382-4f87v	382-2f87v	382-3f87v	382-11f87v	382-10f87v
	16	3	363f87v	383-12f87v	383-4f87v	383-2f87v	383-3f87v	383-11f87v	383-10f87v
	32	2	372f87v	392-12f87v	392-4f87v	392-2f87v	392-3f87v	392-11f87v	392-10f87v
	32	3	373f87v	393-12f87v	393-4f87v	393-2f87v	393-3f87v	393-11f87v	393-10f87v



373f87v



392-3f87v

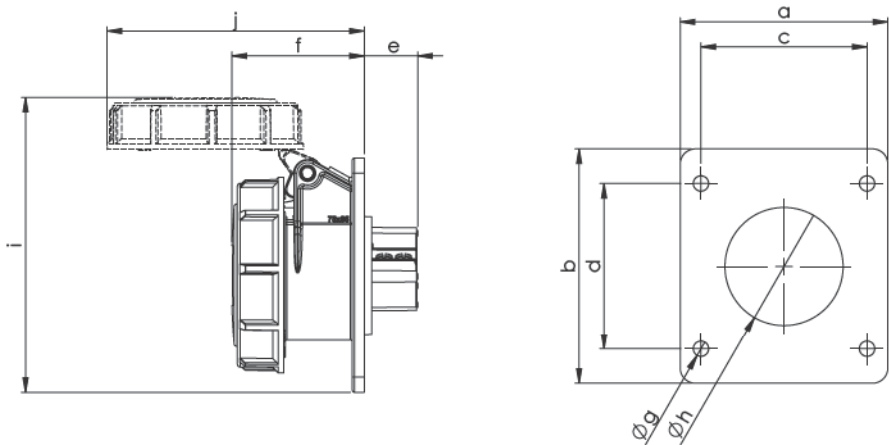


Extra-low voltage – plugs and sockets

Flanged socket straight IP66/67

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- closing lid
- large connection area

IP66/67 watertight



Flange		Fixing center		Amp	Poles	e	f	Ø g	Ø h	i	j	Weight [g]
a	b	c	d									
54	60	44	44	16	2	19	48	5,5	43	95	93	131
				3	3							151
				32	2							131
				3	3							151
75	85	60	60	16	2	19	48	5,5	43	107	93	145
				3	3							165
				32	2							145
				3	3							165

- Connection type: Screw terminal
- Wire flexible: 1-10 mm²
- Wire solid: 1,5-10 mm²
- Contact screws: 110 Ncm

Flange (Fixing center)	Amp.	Poles	24V~ 50/60Hz without Minor key	42V~ 50/60Hz 12h	24/42V~ 100-200Hz 4h	24/42V~ 300Hz 2h	24/42V~ 400Hz 3h	24/42V~ 401-500Hz 11h	24/42V= DC 10h
			Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.
54 x 60 (44 x 44)	16	2	3622f9v	3822-12f9v	3822-4f9v	3822-2f9v	3822-3f9v	3822-11f9v	3822-10f9v
	16	3	3632f9v	3832-12f9v	3832-4f9v	3832-2f9v	3832-3f9v	3832-11f9v	3832-10f9v
	32	2	3722f9v	3922-12f9v	3922-4f9v	3922-2f9v	3922-3f9v	3922-11f9v	3922-10f9v
	32	3	3732f9v	3932-12f9v	3932-4f9v	3932-2f9v	3932-3f9v	3932-11f9v	3932-10f9v
75 x 85 (60 x 60)	16	2	3622f87v	3822-12f87v	3822-4f87v	3822-2f87v	3822-3f87v	3822-11f87v	3822-10f87v
	16	3	3632f87v	3832-12f87v	3832-4f87v	3832-2f87v	3832-3f87v	3832-11f87v	3832-10f87v
	32	2	3722f87v	3922-12f87v	3922-4f87v	3922-2f87v	3922-3f87v	3922-11f87v	3922-10f87v
	32	3	3732f87v	3932-12f87v	3932-4f87v	3932-2f87v	3932-3f87v	3932-11f87v	3932-10f87v

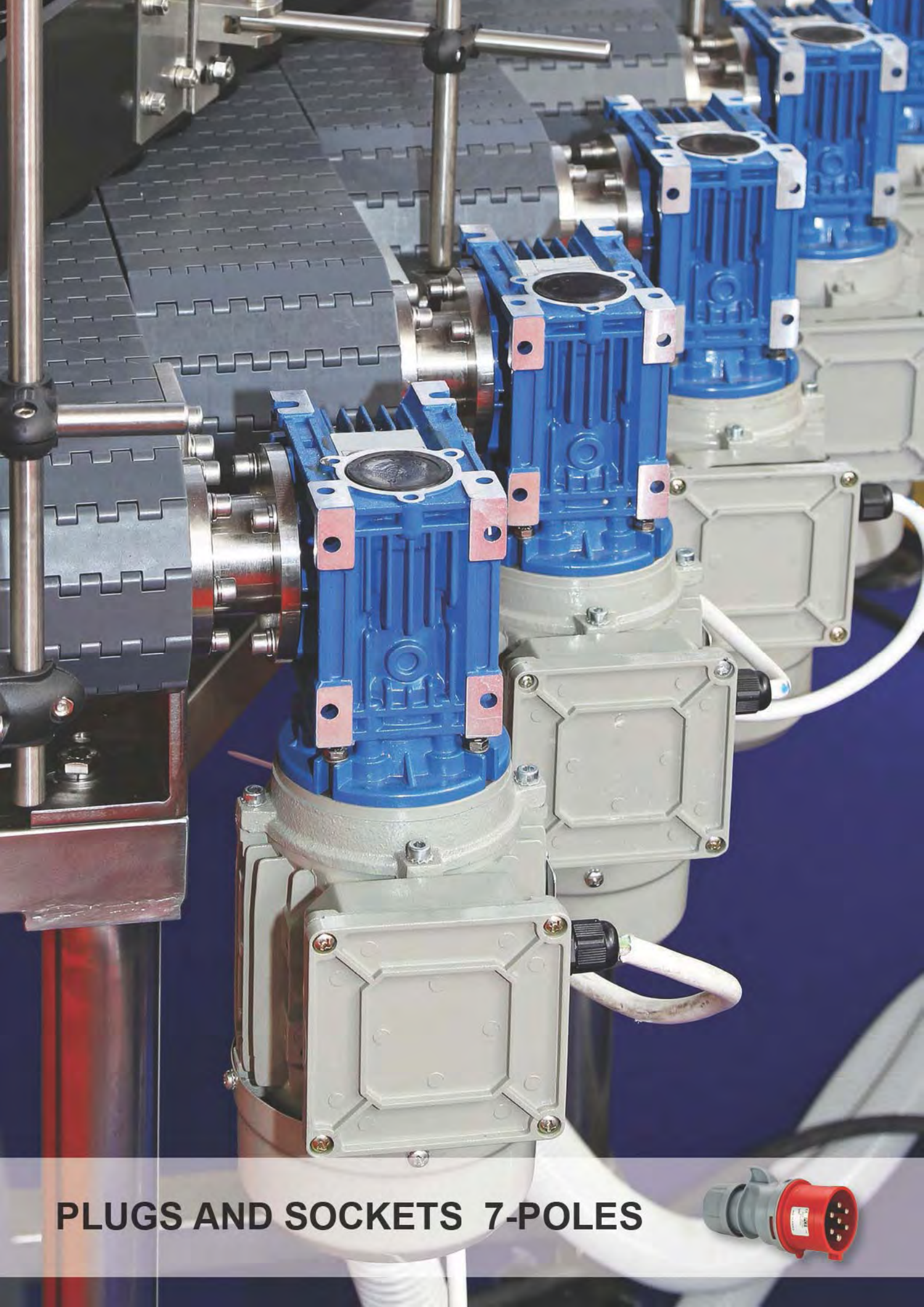


3922-4f9v



3722f87v





PLUGS AND SOCKETS 7-POLES



Plugs and sockets 7-poles

7-pole (6P+E) industrial plugs and sockets cover a wide range of application.

- 7-pole (6P+E)
- 16A or 32A
- IP rating IP44/54 or IP66/67
- Contacts: nickel-plated
- Screw terminals
- External central cable gland

Application for industry, agriculture and commerce:

- Star delta connections (motor)
- Tapped winding connections (pole changing)
- Actuation
- Monitoring
- Controlling
- Indicating
- Electrical interlocks, and many more ...

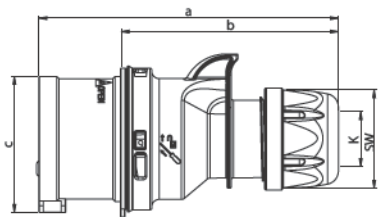
Products: plugs and sockets 7-pole:

- Plugs and angled plugs
- Flanged and wall mounted plugs
- Connectors and angled connectors
- Flanged and wall mounted sockets

The possibility of producing inductive resp. pre-mating contacts by shortend pins, enlarges the range of application.



Plugs and sockets 7-poles

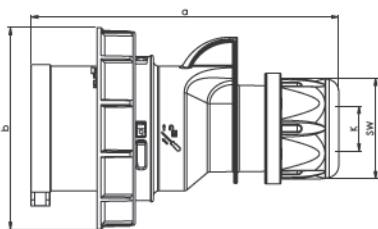


Shark Plug IP44/54

	16 Amp	32 Amp
Poles	7	7
a	134	155
b	98	109
c	61	70
K_cable Ø [mm]	8-16	11,5-22
Connection type:	Screw terminal	
Wire flexible [mm²]	1-2,5	2,5-6
Contact screws [Ncm]	100 Ncm	110 Ncm
SW	42	50
Weight [g]	185	283

- with screw terminals
- housing material: PA6
- contacts: nickel-plated

IP44/54 dust- and splashproof

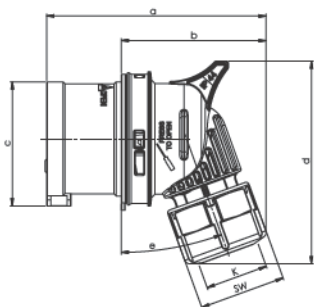


Shark Plug IP66/67

	16 Amp	32 Amp
Poles	7	7
a	134	155
b	87	100
K_cable Ø [mm]	8-16	11,5-22
Connection type:	Screw terminal	
Wire flexible [mm²]	1-2,5	2,5-6
Contact screws [Ncm]	100 Ncm	110 Ncm
SW	42	50
Weight [g]	217	329

- with screw terminals
- housing material: PA6
- contacts: nickel-plated

IP66/67 watertight

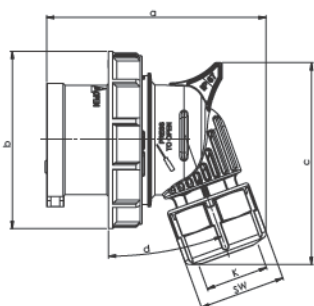


Twist Angled plug IP44/54

	16 Amp	32 Amp
Poles	7	7
a	108	135
b	71	90
c	61	70
d	99	114
e [°]	20	25
K_cable Ø [mm]	8-16	11,5-22
Connection type:	Screw terminal	
Wire flexible [mm²]	1-2,5	2,5-6
Contact screws [Ncm]	100 Ncm	110 Ncm
SW	42	50
Weight [g]	189	286

- with screw terminals
- housing material: PC/ABS
- contacts: nickel-plated

IP44/54 dust- and splashproof



Twist Angled plug IP66/67

	16 Amp	32 Amp
Poles	7	7
a	108	135
b	87	100
c	99	114
d [°]	20	25
K_cable Ø [mm]	8-16	11,5-22
Connection type:	Screw terminal	
Wire flexible [mm²]	1-2,5	2,5-6
Contact screws [Ncm]	100 Ncm	110 Ncm
SW	42	50
Weight [g]	220	331

- with screw terminals
- housing material: PC/ABS
- contacts: nickel-plated

IP66/67 watertight

Amp.	Poles	pack, unit	110V~ 50/60Hz 4h	230V~ 50/60Hz 9h	400V~ 50/60Hz 6h	500V~ 50/60Hz 7h
			Cat.No.	Cat.No.	Cat.No.	Cat.No.
16	7	10	017-4v	017-9v	017-6v	017-7v
32	7	10	027-4v	027-9v	027-6v	027-7v



027-6v



16	7	10	0172-4v	0172-9v	0172-6v	0172-7v
32	7	10	0272-4v	0272-9v	0272-6v	0272-7v



0272-6v



16	7	10	8017-4v	8017-9v	8017-6v	8017-7v
32	7	10	8027-4v	8027-9v	8027-6v	8027-7v



8027-6v



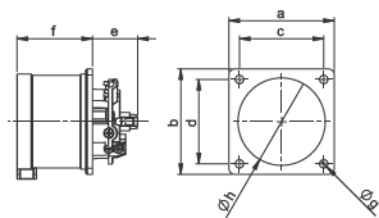
16	7	10	80172-4v	80172-9v	80172-6v	80172-7v
32	7	10	80272-4v	80272-9v	80272-6v	80272-7v



80272-6v



Plugs and sockets 7-poles

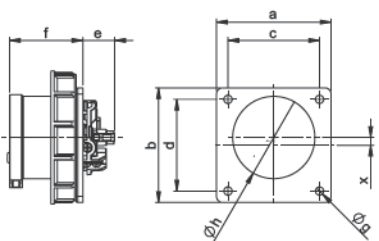


Flanged plug straight IP44/54

	16 Amp		32 Amp	
Poles	7	7	7	7
a	70	75	70	75
b	70	75	70	75
c	56	60	56	60
d	56	60	56	60
e	28	28	30	30
f	42	42	51	51
Ø g	5,5	5,5	5,5	5,5
Ø h	55	55	55	55
Connection type:	Screw terminal			
Wire flexible [mm²]	1-2,5		2,5-6	
solid [mm²]	1-4		2,5-10	
Contact screws [Ncm]	100 Ncm		110 Ncm	
Weight [g]	147	152	216	221

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- According to EN 60309:
For correct use a locking device has to be provided (see page 32)

IP44/54 dust- and splashproof

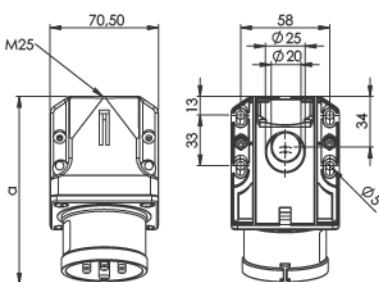


Flanged plug straight IP66/67

	16 Amp		32 Amp	
Poles	7	7	7	7
a	75	75	75	75
b	75	75	75	75
c	60	60	60	60
d	60	60	60	60
e	28	30	30	30
f	48	58	58	58
Ø g	5,5	5,5	5,5	5,5
Ø h	55	55	55	55
x	5,05	0	0	0
Connection type:	Schraubklemmen			
Wire flexible [mm²]	1-2,5		2,5-6	
solid [mm²]	1-4		2,5-10	
Contact screws [Ncm]	100 Ncm		110 Ncm	
Weight [g]	180		265	

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- According to EN 60309:
For correct use a locking device has to be provided (see page 32)
- for 16A 7p the plug is placed off centered for keeping the standards

IP66/67 watertight

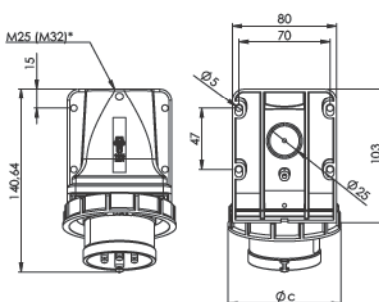


Wall mounted plug IP44/54

	16 Amp		32 Amp	
Poles	7	7	7	7
a	122	132	132	132
b	79	85	85	85
M	25	25	25	25
Connection type:	Screw terminal			
Wire flexible [mm²]	1-2,5		2,5-6	
solid [mm²]	1-4		2,5-10	
Contact screws [Ncm]	100 Ncm		110 Ncm	
Weight [g]	235		304	

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- top and rear entry
- incl. threaded cable grommet
- 9517*, 9527* large housing for wiring through

IP44/54 dust- and splashproof



Wall mounted plug IP66/67

	16 Amp		32 Amp	
Poles	7	7	7	7
a	140	152	152	152
b	100	102	102	102
c	87	100	100	100
M*	25	25	25	25
Connection type:	Screw terminal			
Wire flexible [mm²]	1-2,5		2,5-6	
solid [mm²]	1-4		2,5-10	
Contact screws [Ncm]	100 Ncm		110 Ncm	
Weight [g]	271		356	

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- top and rear entry
- incl. threaded bung

IP66/67 watertight

*M32 optional on request

110V~

 50/60Hz
4h

230V~

 50/60Hz
9h

400V~

 50/60Hz
6h

500V~

 50/60Hz
7h

 Amp.
Poles
pack,
unit

Cat.No.

Cat.No.

Cat.No.

Cat.No.

Flange 70 x 70 - Fixing center: 56 x 56

 16 7 10 617-4v 617-9v **617-6v** 617-7v

 32 7 10 627-4v 627-9v **627-6v** 627-7v

Flange 75 x 75 - Fixing center: 60 x 60

 16 7 10 617-4f7v 617-9f7v **617-6f7v** 617-7f7v

 32 7 10 627-4f7v 627-9f7v **627-6f7v** 627-7f7v


627-6v

Flange 75 x 75 - Fixing center: 60 x 60

 16 7 10 6172-4v 6172-9v **6172-6v** 6172-7v

 32 7 10 6272-4v 6272-9v **6272-6v** 6272-7v


6272-6v

 16 7 10 517-4v 517-9v **517-6v** 517-7v

 32 7 10 527-4v 527-9v **527-6v** 527-7v

for wiring through (M25 top, 2xM25 bottom)

 16 7 5 9517-4v 9517-9v **9517-6v** 9517-7v

 32 7 5 9527-4v 9527-9v **9527-6v** 9527-7v


9527-6v



527-6v

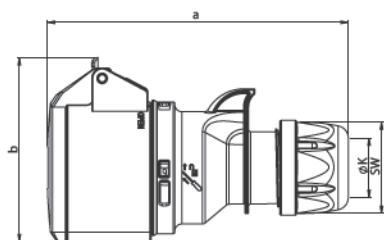
 16 7 5 5172-4kv 5172-9kv **5172-6kv** 5172-7kv

 32 7 5 5272-4kv 5272-9kv **5272-6kv** 5272-7kv


5272-6kv



Plugs and sockets 7-poles

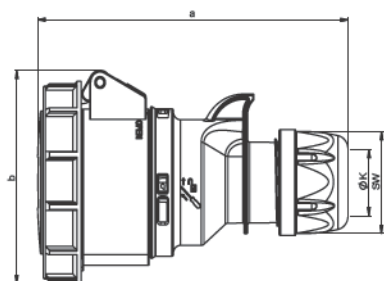


Shark Connector IP44/54

	16 Amp	32 Amp
Poles	7	7
a	145	168
b	89	99
K_cable Ø [mm]	8-16	11,5-22
Connection type:	Screw terminal	
Wire flexible [mm²]	1-2,5	2,5-6
Contact screws [Ncm]	100 Ncm	110 Ncm
SW	42	50
Weight [g]	210	310

- with screw terminals
- housing material: PA6
- contacts: nickel-plated

IP44/54 dust- and splashproof

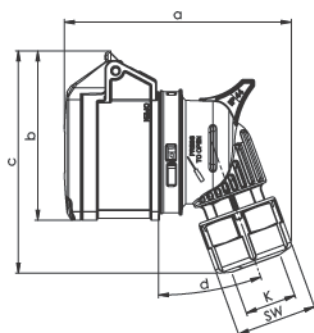


Shark Connector IP66/67

	16 Amp	32 Amp
Poles	7	7
a	147	171
b	92	102
K_cable Ø [mm]	8-16	11,5-22
Connection type:	Screw terminal	
Wire flexible [mm²]	1-2,5	2,5-6
Contact screws [Ncm]	100 Ncm	110 Ncm
SW	42	50
Weight [g]	254	377

- with screw terminals
- housing material: PA6
- contacts: nickel-plated

IP66/67 watertight

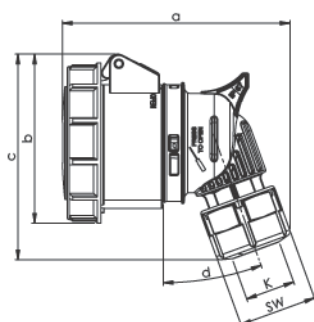


Twist Angled connector IP44/54

	16 Amp	32 Amp
Poles	7	7
a	119	147
b	89	99
c	117	126
d [°]	20	25
K_cable Ø [mm]	8-16	11,5-22
Connection type:	Screw terminal	
Wire flexible [mm²]	1-2,5	2,5-6
Contact screws [Ncm]	100 Ncm	110 Ncm
SW	42	50
Weight [g]	214	313

- with screw terminals
- housing material: PC/ABS
- contacts: nickel-plated

IP44/54 dust- and splashproof



Twist Angled connector IP66/67

	16 Amp	32 Amp
Poles	7	7
a	124	152
b	92	102
c	112	122
d [°]	20	25
K_cable Ø [mm]	8-16	11,5-22
Connection type:	Screw terminal	
Wire flexible [mm²]	1-2,5	2,5-6
Contact screws [Ncm]	100 Ncm	110 Ncm
SW	42	50
Weight [g]	258	379

- with screw terminals
- housing material: PC/ABS
- contacts: nickel-plated

IP66/67 watertight

Amp.	Poles	pack, unit	110V~ 50/60Hz 4h	230V~ 50/60Hz 9h	400V~ 50/60Hz 6h	500V~ 50/60Hz 7h
			Cat.No.	Cat.No.	Cat.No.	Cat.No.
16	7	10	217-4v	217-9v	217-6v	217-7v
32	7	10	227-4v	227-9v	227-6v	227-7v



227-6v

16	7	10	2172-4v	2172-9v	2172-6v	2172-7v
32	7	10	2272-4v	2272-9v	2272-6v	2272-7v



2272-6v

16	7	10	8217-4v	8217-9v	8217-6v	8217-7v
32	7	10	8227-4v	8227-9v	8227-6v	8227-7v



8227-6v

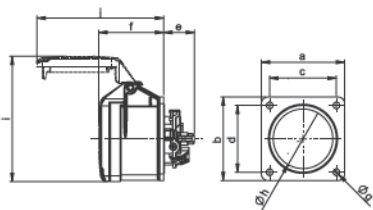
16	7	10	82172-4v	82172-9v	82172-6v	82172-7v
32	7	10	82272-4v	82272-9v	82272-6v	82272-7v



82272-6v



Plugs and sockets 7-poles

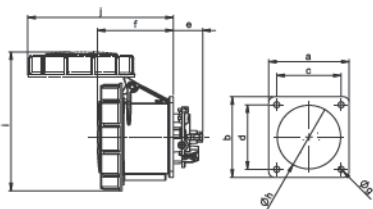


Flanged socket straight IP44/54

	16 Amp		32 Amp	
Poles	7	7	7	7
a	70	75	70	75
b	70	75	70	75
c	56	60	56	60
d	56	60	56	60
e	26	26	28	23
f	55	55	67	67
Ø g	5,5	5,5	5,5	5,5
Ø h	52	52	58	58
Connection type:	Screw terminal			
Wire flexible [mm²]	1-2,5		2,5-6	
solid [mm²]	1-4		2,5-10	
Contact screws [Ncm]	100 Ncm		110 Ncm	
Weight [g]	174	179	243	253

- with screw terminals
- housing material: PA6
- contacts: nickel-plated

IP44/54 dust- and splashproof

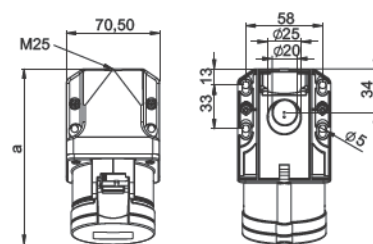


Flanged socket straight IP66/67

	16 Amp		32 Amp	
Poles	7	7	7	7
a	70	75	70	75
b	70	75	70	75
c	56	60	56	60
d	56	60	56	60
e	26	26	28	28
f	59	59	71	71
Ø g	5,5	5,5	5,5	5,5
Ø h	55	55	60	60
i	117	117	130	130
j	115	115	136	136
Connection type:	Screw terminal			
Wire flexible [mm²]	1-2,5		2,5-6	
solid [mm²]	1-4		2,5-10	
Contact screws [Ncm]	100 Ncm		110 Ncm	
Weight [g]	207	211	292	299

- with screw terminals
- housing material: PA6
- contacts: nickel-plated

IP66/67 watertight



b=Height
Angle=15°

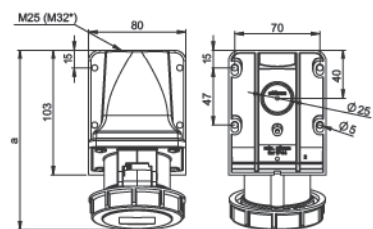
Wall mounted socket IP44/54

	16 Amp		32 Amp	
Poles	7	7	7	7
a	133	145	145	145
b	100	107	107	107
M	25	25	25	25
Connection type:	Screw terminal			
Wire flexible [mm²]	1-2,5		2,5-6	
solid [mm²]	1-4		2,5-10	
Contact screws [Ncm]	100 Ncm		110 Ncm	
Weight [g]	261	330	330	330

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- top and rear entry
- incl. threaded cable grommet

• 917*, 927* large housing for wiring through

IP44/54 dust- and splashproof



b=Height
Angle=15°

Wall mounted socket IP66/67

	16 Amp		32 Amp	
Poles	7	7	7	7
a	148	163	163	163
b	102	112	112	112
M	25	25	25	25
Connection type:	Screw terminal			
Wire flexible [mm²]	1-2,5		2,5-6	
solid [mm²]	1-4		2,5-10	
Contact screws [Ncm]	100 Ncm		110 Ncm	
Weight [g]	302	390	390	390

- with screw terminals
- housing material: PA6
- contacts: nickel-plated
- top and rear entry
- incl. threaded bung

IP66/67 watertight

Amp.	Poles	pack. unit	110V~	230V~	400V~	500V~
			50/60Hz 4h	50/60Hz 9h	50/60Hz 6h	50/60Hz 7h
			Cat.No.	Cat.No.	Cat.No.	Cat.No.
with flange 70 x 70 - fixing center 56 x 56						
16	7	10	317-4v	317-9v	317-6v	317-7v
32	7	10	327-4v	327-9v	327-6v	327-7v
with flange 75 x 75 - fixing center 60 x 60						
16	7	10	317-4f7v	317-9f7v	317-6f7v	317-7f7v
32	7	10	327-4f7v	327-9f7v	327-6f7v	327-7f7v



327-6v

with flange 70 x 70 - fixing center 56 x 56						
16	7	10	3172-4f70v	3172-9f70v	3172-6f70v	3172-7f70v
32	7	10	3272-4f70v	3272-9f70v	3272-6f70v	3272-7f70v
with flange 75 x 75 - fixing center 60 x 60						
16	7	10	3172-4v	3172-9v	3172-6v	3172-7v
32	7	10	3272-4v	3272-9v	3272-6v	3272-7v



3272-6v

16	7	10	117-4v	117-9v	117-6v	117-7v
32	7	10	127-4v	127-9v	127-6v	127-7v
for wiring through (M25 top, 2xM25 bottom)						
16	7	5	917-4v	917-9v	917-6v	917-7v
32	7	5	927-4v	927-9v	927-6v	927-7v



927-6v



127-6v

16	7	5	1172-4v	1172-9v	1172-6v	1172-7v
32	7	5	1272-4v	1272-9v	1272-6v	1272-7v



1272-6v





CONTAINER PLUGS AND SOCKETS

Container plugs and sockets

PCE container plugs and sockets are specially designed for the rough condition on reefer-containers, at harbors and terminals.

- 32A, 4-pole, 3h, 440V
- IP rating IP67
- nickel-plated contacts
- robust design
- external, centric cable gland
- with Lloyd's Register Type Approval*



Container products:

- plug* and connector
- wall socket
- flanged socket straight/sloping
- switched interlocked socket*
- switched interlocked socket with fuse*
- special distribution boxes (on request)



Container plugs and sockets



Shark Container Plug

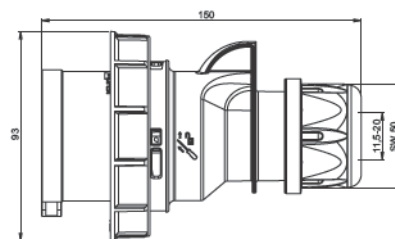
- 32A 4p 3h 440V
- nickel-plated contacts

IP67 watertight



0242-3v

pack.unit: 10



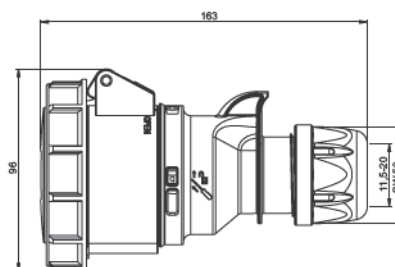
Shark Container Connector

- 32A 4p 3h 440V
- nickel-plated contacts

IP67 watertight

2242-3v

pack.unit: 10



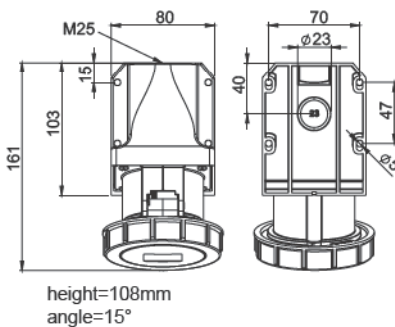
Container Wall socket

- 32A 4p 3h 440V
- nickel-plated contacts

IP67 watertight

1242-3v

pack.unit: 5



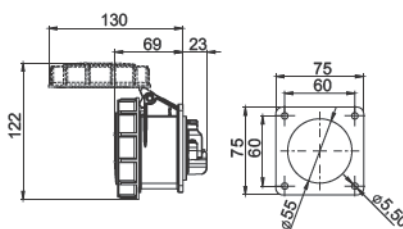
Container Flanged socket straight

- 32A 4p 3h 440V
- nickel-plated contacts
- flange = 75 x 75
- fixing center = 60 x 60

IP67 watertight

3242-3v

pack.unit: 10



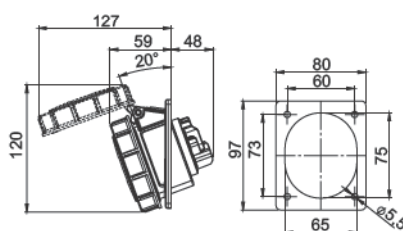
Container Flanged socket sloping

- 32A 4p 3h 440V
- flange = 80 x 97 mm
- fixing center = 60 x 73 mm

IP67 watertight

4242-3f78v

pack.unit: 10



Container Switched interlocked socket

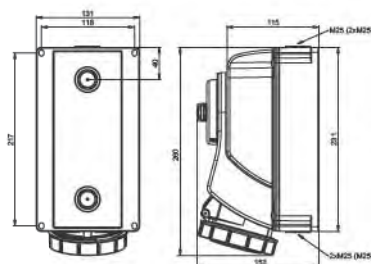
- 32A 4p 3h 440V
- nickel-plated contacts
- up to 3 x M25 cable entries
- mechanical interlock
- lockable by padlock

IP67 watertight



75242-3

pack.unit: 1



Container Switched interlocked socket with fuse

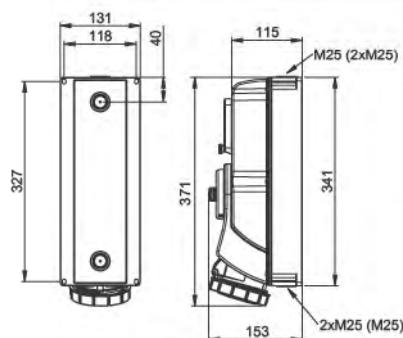
- 32A 4p 3h 440V
- nickel-plated contacts
- cylindrical fuse D02-3p 440V
- up to 3 x M25 cable entries
- mechanical interlock
- lockable by padlock

IP67 watertight



78242-3

pack.unit: 1



Container Switched interlocked socket with DIN rail

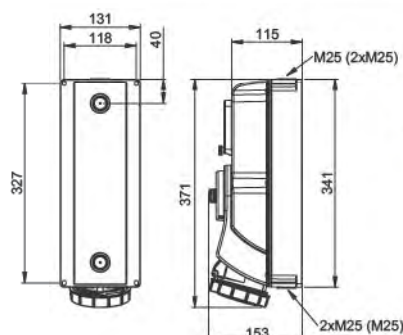
- 32A 4p 3h 440V
- nickel-plated contacts
- DIN rail with window for 5 modules
- up to 3 x M25 cable entries
- mechanical interlock
- lockable by padlock

IP67 watertight



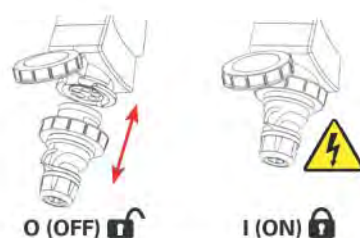
76242-3

pack.unit: 1



- compact design for wall mounting
- nickel-plated contacts
- Series 76/78... with window for 5 units, cap dimensions: 45mm
- mechanical interlock:
after plugging and switching-on **plug is locked**
after switching-off and unplugging **switch is locked**
- all components are mounted on bottom
- **large connecting area - easy of installation**
- possibility for wiring through
- ready wired for connection
- at switch-off position: lockable by padlock (40 mm)

Detailed information see page 102 ... „Switched interlocked sockets“.





CARAVAN PLUGS AND SOCKETS

Caravan plugs and sockets

PCE caravan devices are perfectly designed for the use on camp sites, caravan and marinas.

- 16A, 3-pole, 6h, 230V
- IP rating: IP44
- Contacts: brass or
nickel-plated
- Solid design
- Different versions available

Caravan products

- plug and connector
- flanged socket lockable
- wall mounted plug
- angled plug, angled connector
- adapters
- distribution products
- energy pillars (see page 290)



Caravan plugs and sockets for camping areas



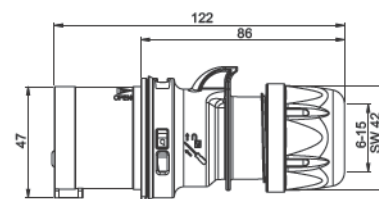
Shark Caravan Plug

- 16A 3p 230V
- contacts: brass
 - to order nickel-plated contacts please add a "v" e.g. 013-6v
- technical data see Plugs on page 20

IP44 splashproof

013-6

pack.unit: 10



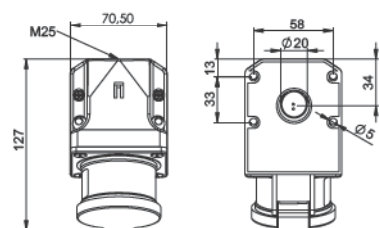
Caravan Wall mounted plug

- 16A 3p 230V
- contacts: brass
 - to order nickel-plated contacts please add a "v" e.g. 513-6dv
- with hinged lid and gasket
- technical data see Wall mounted plugs page 26

IP44 splashproof

513-6d

pack.unit: 10



height= 92mm
angle= 15°



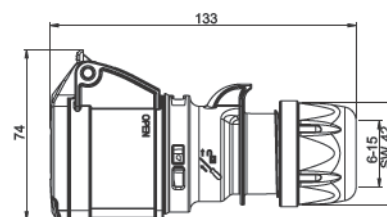
Shark Caravan Connector

- 16A 3p 230V
- contacts: brass
 - to order nickel-plated contacts please add a "v" e.g. 213-6v
- technical data see connectors on page 52

IP44 splashproof

213-6

pack.unit: 10



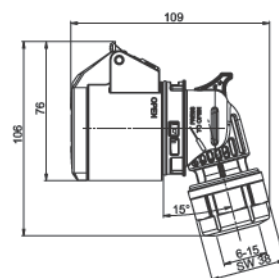
Caravan Angled connector

- 16A 3p 230V
- contacts: brass

IP44 splashproof

8213-6

pack.unit: 10



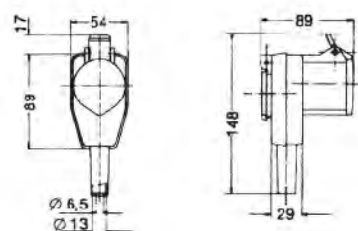
Caravan Angled connector with safety socket

- 16A 3p 230V
- contacts: brass

IP44 splashproof

8213-Do

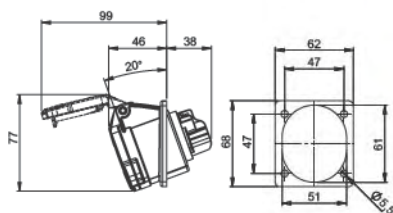
pack.unit: 10



Flanged socket sloping lockable

- 16A 3p 230V
- Flange 62 x 68 - fixing center 47 x 47 mm
- lockable with padlock

IP44 splashproof



413-6f66

pack.unit: 10



Caravan Adapter

- with safety socket acc. Aust./German system
- also available with Belg./French and British socket outlet
- nickel-plated contacts

IP44 splashproof

Entry:
CEE-plug 16A 3p 230V

Outlet:
1 safety socket 16A 2p+E 250V

9433100*

pack.unit: 10



Caravan Adapter

- plug for domestic use with two earthing systems / CEE-socket outlet
- nickel-plated contacts

IP20

Entry:
1 plug (two earthing system) 2p+E 250V

Outlet:
1 CEE-socket 16A 3p 230V

9434100*

pack.unit: 10



Caravan Adapter with cable

- 16A 3p 230V

IP44 splashproof

80cm cable H07RN-F 3G1,5 with CEE-plug 16A 3p 230V and solid rubber connector acc. to Austr./German system 16A 2p+E 250V

9007

pack.unit: 10



80cm cable H07RN-F 3G1,5 with solid rubber safety plug (two earthing system) 16A 2p+E 250V and CEE-connector 16A 3p 230V

9009

pack.unit: 10



Caravan Combination Series St. Anton

IP44 splashproof

Entry:
1,5m cable H07RN-F 3G1,5 with CEE-plug 16A 3p 230V

Outlet:
1 safety socket acc. Aust./German system 16A 2p+E 250V

Protection:
1 RCD 25A 0,03A

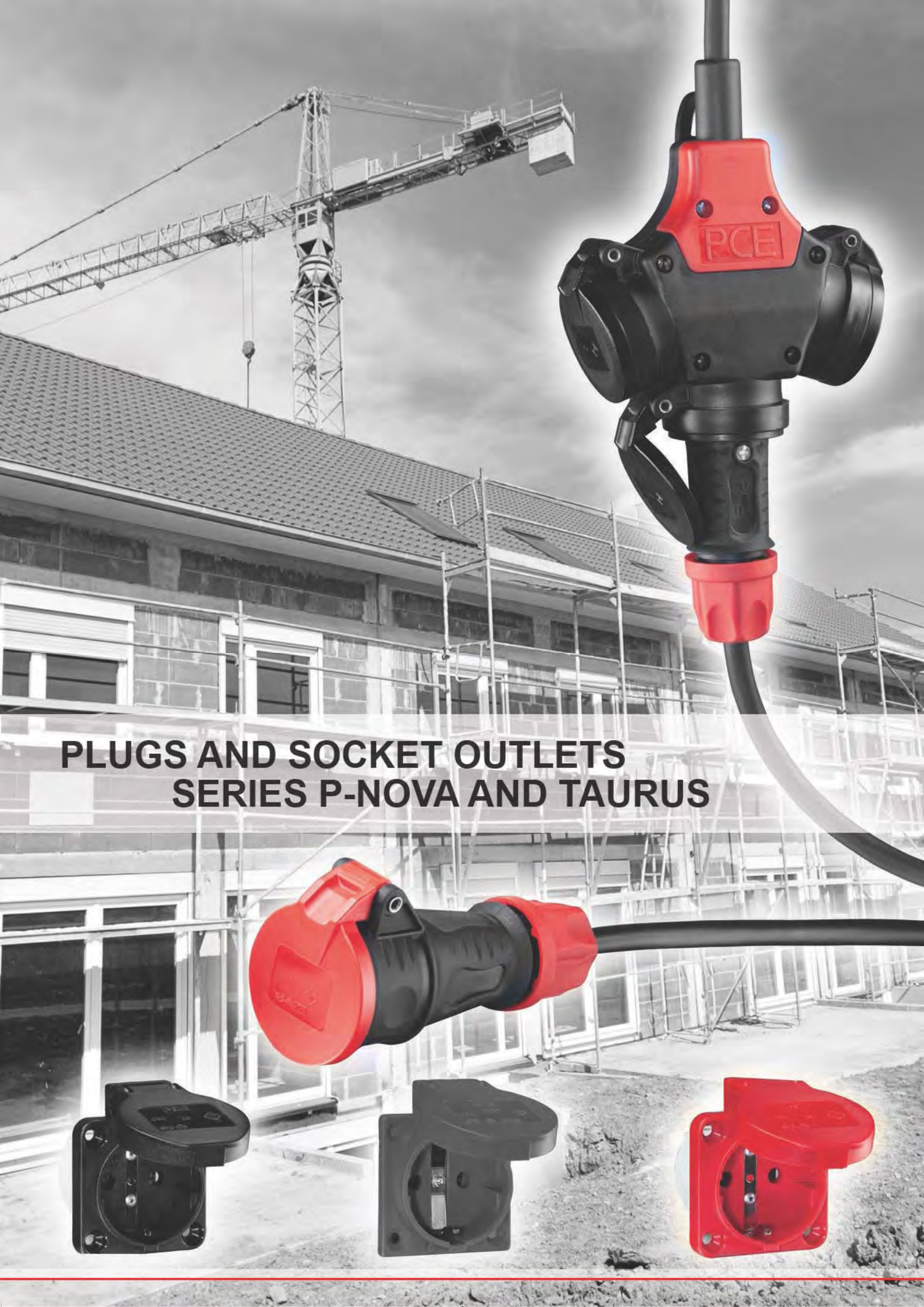
9437125

pack.unit: 1



* Export version (in Austria and Germany not allowed)





PLUGS AND SOCKET OUTLETS SERIES P-NOVA AND TAURUS



Plugs and socket outlets – Series P-Nova and Taurus

P-Nova

The socket outlet with earthing contact Page 146



Nautilus

watertight flanged sockets Page 160



Taurus

Plug and connector systems Page 166



Top Taurus

Plug and connector systems Page 174



Special plugs and sockets

Multiple socket outlets Seite 178



Adaptors Seite 180



Testing plugs and adaptors Seite 181



The socket outlet with earthing contact

The „P-Nova“ socket outlet with earthing contact is characterized in particular by its:

- robust construction based on high-grade polyamide, 
- screwless connection technology or screw contact system (connection from the rear or the side)
- various flange sizes
- four-point mounting
- special sealing contour for IP54 on the backside



Screw contact system



Connection from the rear

Connection from the side

Screwless connection technology



With spring-clamp (screwless)
Connection from the rear

Technical data

-  IP54
- flange dimensions: 50x50 as standard, 70x70 as well as 75x75
- hinged lid with wide opening angle
- high closing pressure on hinged lid
- finger protection VBG4

Spring-clamp connection technology

- spring-clamp with connection from the rear
- pre-tensioned release mechanism - no tool needed for initial connection
- connection without an end sleeve possible
- double connection through independent spring-clamps for wiring through

Connection



Re-connection



P-Nova plus

– Product features

- + **minimized contact carrier**
for mounting in narrow surroundings (cable reels)
- + **optimum screw contacts**
- + **open contact screws**
- + **hinged lid with wide opening angle, high closing pressure**
- + **flange size 50x50mm**
(thinner flange, no separate gasket necessary)
- + **fixing center 38x38mm (fourpoint-mounting with countersunk screw)**
- + **IP54 splashproof** 
- + **high stability by single-part housing**
also in case of child protection (shutter)!
- + **robust construction based on highgrade polyamide 6**
- + **optional: approved child protection for all types**
- + **Austrian/German versions according to DIN VDE 0620-1st of February 2010**
- + **Minimum quantity for ordering special versions: 1.000 pieces**

Child protection (shutter)



Belgian/French standard

Earth pin with single part terminal (also available in version with child protection (shutter))



Screw contact systems

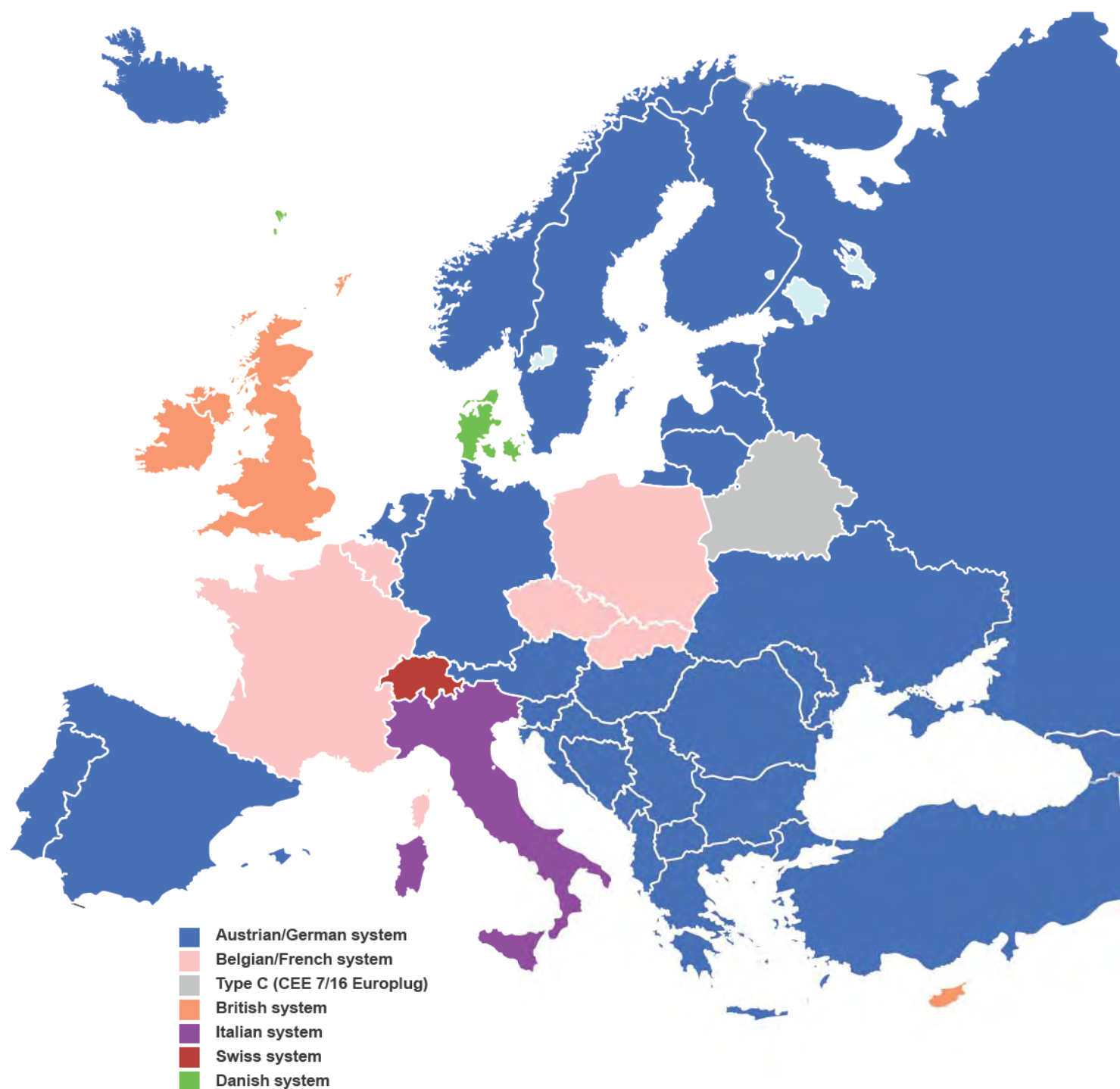


Connection from the side

Connection from the rear



Safety plug and socket system in EUROPE



Order information:

Safety sockets are available in grey, red, yellow, black and white (blau = standard)

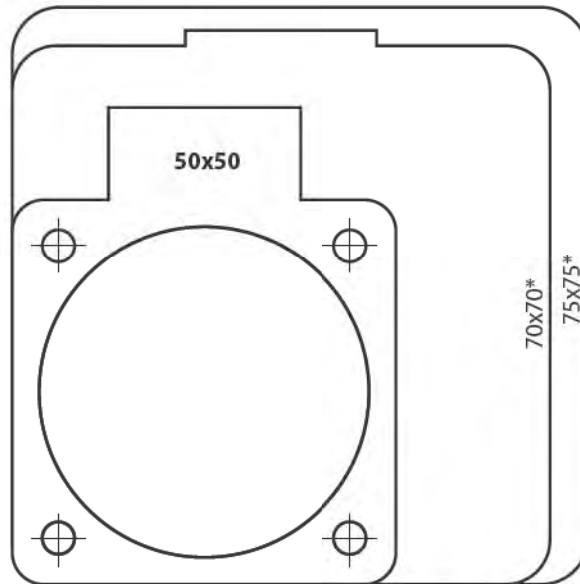
P-Nova: Special versions are available on request, e.g.: with side connection and child protection (shutter)

Minimum quantity for ordering special versions: 1.000 pieces



Socket outlets

Dimensions:



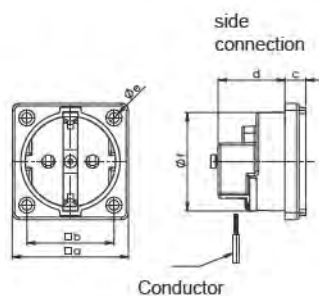
* only P-NOVA

Versions: (Flange: 50 x 50)

Screw terminals	Screwless connection	Side connection	Rear connection	Child protection (shutter)	Sealing bulge**				
									
									
						Austrian/German system		Belgian/French system	
•		•				1050-0bs	105-0bs	1040-0bs	104-0bs
•		•		•		1050-0bsc	105-0bsc	1040-0bsc	104-0bsc
•			•			1050-0b	105-0b	1040-0b	104-0b
•			•	•		1050-0bc	105-0bc	1040-0bc	104-0bc
•			•		•	1050-0bw	105-0bw		
	•		•				109-0b		108-0b
	•		•	•			109-0bc		108-0bc
	•		•		•		109-0bw		

** Plugs and socket outlets (DIN 49440) for portable use subject to the standard
DIN VDE 0620-1:2010 and ÖVE/ÖNORM EA 8684-2-2:2010



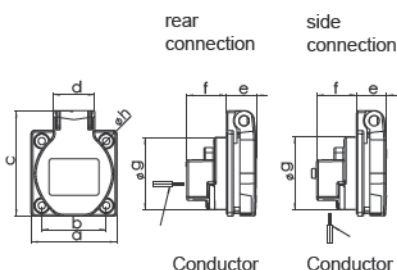


Socket outlet Austrian/German system

	• STANDARD •
	16 Amp
Poles	2P + E
a	50
b	37,5
c	9
d	29
e	4,3
f	43
Connection type:	Screwed contact
Wire flexible [mm²]	1 - 2x2,5
solid [mm²]	1 - 2x2,5
Contact screws [Ncm]	80
Weight [g]	34

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP20

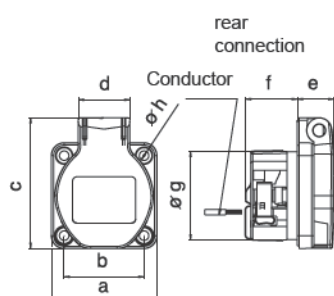


Socket outlet Austrian/German system

	• STANDARD •
	16 Amp
Poles	2P + E
a	50
b	38
c	62
d	25
e	18
f	24
g	43
h	4,2
Connection type:	Screwed contact
Wire flexible [mm²]	1 - 2x2,5
solid [mm²]	1 - 2x2,5
Contact screws [Ncm]	80
Weight [g]	45

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP54 splashproof

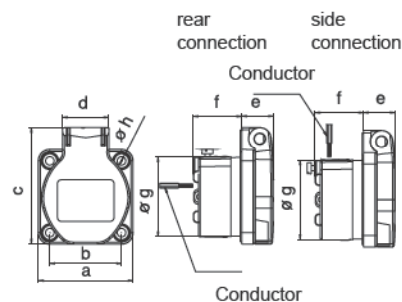


Socket outlet Austrian/German system

	• STANDARD •	• SPECIAL •	
	16 Amp	16 Amp	
Poles	2P + E	2P + E	2P + E
a	50	70	75
b	38	56	60
c	62	72	75
d	25	25	25
e	17	17	17
f	26	26	26
g	43	43	43
h	4,2	5,5	5,5
Connection type:		Screwless	
Wire flexible [mm²]		1 - 2x2,5	
solid [mm²]		1 - 2x2,5	
Weight [g]	43	48	49

- screwless connection technology
- housing material: PA6
- contacts: nickel-plated contacts
- rear connection

IP54 splashproof



Socket outlet Austrian/German system

	• STANDARD •	• SPECIAL •	
	16 Amp	16 Amp	
Poles	2P + E	2P + E	2P + E
a	50	70	75
b	38	56	60
c	62	72	75
d	25	25	25
e	17	17	17
f	26	26	26
g	43	43	43
h	4,2	5,5	5,5
Connection type:		Screwed contact	
Wire flexible [mm²]		1 - 2x2,5	
solid [mm²]		1 - 2x2,5	
Contact screws [Ncm]		80	
Weight [g]	45	50	51

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP54 splashproof



Amp.
 Poles
 pack.
 unit
 Abbreviations/Types

Cat.No.

Cat.No.

Cat.No.

				
16	3	100	„SC“ side connection, with child protection (shutter)	10584-0wsc



10584-0wsc

				
16	3	100	rear connection (standard)	1050-0b
16	3	100	„S“ side connection	1050-0bs
16	3	100	„C“ rear connection, with child protection (shutter)	1050-0bc
16	3	100	„SC“ side connection, with child protection (shutter)	1050-0bsc



1050-0b

						
16	3	100	rear connection (standard)	109-0b	109-7b	109-8b
16	3	100	„C“ rear connection, with child protection (shutter)	109-0bc	109-7bc	109-8bc



109-0b
Flange = 50x50



109-8b
Flange = 75x75

						
16	3	100	rear connection (standard)	105-0b	105-7b	105-8b
16	3	100	„S“ side connection	105-0bs	105-7bs	105-8bs
16	3	100	„C“ rear connection, with child protection (shutter)	105-0bc	105-7bc	105-8bc
16	3	100	„SC“ side connection, with child protection (shutter)	105-0bsc	105-7bsc	105-8bsc

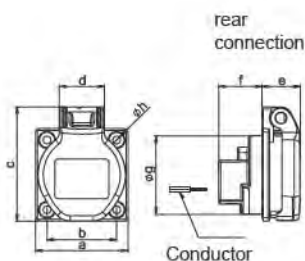


105-0b
Flange = 50x50

Special versions are available on request. For more information about our ordering system, please have a look on page 148.

Minimum order quantity for special versions: 1.000 pieces



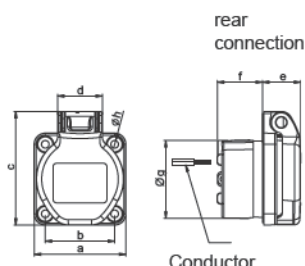


Socket outlet Austrian/German system

	• STANDARD •
	16 Amp
Poles	2P + E
a	50
b	38
c	62
d	25
e	22
f	24
g	43
h	4,2
Connection type:	Screwed contact
Wire flexible [mm²]	1 - 2x2,5
solid [mm²]	1 - 2x2,5
Contact screws [Ncm]	80
Weight [g]	45

- with sealing bulge
- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP54 splashproof

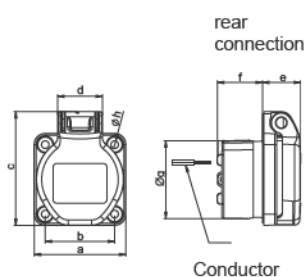


Socket outlet Austrian/German system

	•STANDARD•	• SPECIAL •	
	16 Amp	16 Amp	
Poles	2P + E	2P + E	2P + E
a	50	70	75
b	38	56	60
c	62	72	75
d	25	25	25
e	21	21	21
f	26	26	26
g	43	43	43
h	4,2	5,5	5,5
Connection type:	Screwless		
Wire flexible [mm²]	1 - 2x2,5		
solid [mm²]	1 - 2x2,5		
Weight [g]	44	49	50

- with sealing bulge
- screwless connection technology
- housing material: PA6
- contacts: nickel-plated contacts

IP54 splashproof



Socket outlet Austrian/German system

	•STANDARD•	• SPECIAL •	
	16 Amp	16 Amp	
Poles	2P + E	2P + E	2P + E
a	50	70	75
b	38	56	60
c	62	72	75
d	25	25	25
e	21	21	21
f	26	26	26
g	43	43	43
h	4,2	5,5	5,5
Connection type:	Screwed contact		
Wire flexible [mm²]	1 - 2x2,5		
solid [mm²]	1 - 2x2,5		
Weight [g]	46	51	52

- with sealing bulge
- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP54 splashproof



Plugs and socket outlets for portable use are subject to the standard DIN VDE 0620-1:2010 and ÖVE/ÖNORM EA 8684-2-2:2010 (Plugs and sockets for household and similar applications).
Examples for portable use: mobile distribution boxes and cable reels.

Remark: Version for Germany and Austria

Amp.
Poles
pack.
unit

Abbreviations/Types

Cat.No.

Cat.No.

Cat.No.

16 3 100



rear connection, with sealing bulge

1050-0bw



1050-0bw

16 3 100



rear connection, with sealing bulge

109-0bw

109-7bw

109-8bw



109-0bw

16 3 100



rear connection, with sealing bulge

105-0bw

105-7bw

105-8bw

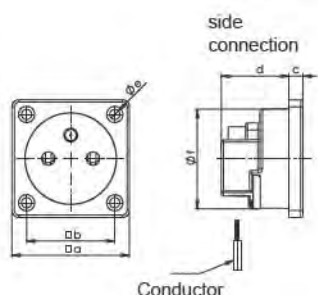


105-0bw

Explanation:

The prescribed standard of the sealing bulge is highlighted in red in the picture bellow.





Socket outlet Belgian/French system

	• STANDARD •
	16 Amp
Poles	2P + E
a	50
b	37,5
c	6
d	29
e	4,3
f	43
Connection type:	Screwed contact
Wire flexible [mm ²]	1 - 2x2,5
solid [mm ²]	1 - 2x2,5
Contact screws [Ncm]	80
Weight [g]	34

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP20

Socket outlet Belgian/French system

	• STANDARD •
	16 Amp
Poles	2P + E
a	50
b	38
c	62
d	25
e	18
f	24
g	43
h	4,2
Connection type:	Screwed contact
Wire flexible [mm ²]	1 - 2x2,5
solid [mm ²]	1 - 2x2,5
Contact screws [Ncm]	80
Weight [g]	45

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP54 splashproof



Socket outlet Belgian/French version

	• STANDARD •	• SPECIAL •	
	16 Amp	16 Amp	
Poles	2P + E	2P + E	2P + E
a	50	70	75
b	38	56	60
c	62	72	75
d	25	25	25
e	17	17	17
f	26	26	26
g	43	43	43
h	4,2	5,5	5,5
Connection type:	Screwless		
Wire flexible [mm ²]	1 - 2x2,5		
solid [mm ²]	1 - 2x2,5		
Weight [g]	43	48	49

- screwless connection technology
- housing material: PA6
- contacts: nickel-plated contacts
- rear connection

IP54 splashproof



Socket outlet Belgian/French version

	• STANDARD •	• SPECIAL •	
	16 Amp	16 Amp	
Poles	2P + E	2P + E	2P + E
a	50	70	75
b	38	56	60
c	62	72	75
d	25	25	25
e	17	17	17
f	26	26	26
g	43	43	43
h	4,2	5,5	5,5
Connection type:	Screwed contact		
Wire flexible [mm ²]	1 - 2x2,5		
solid [mm ²]	1 - 2x2,5		
Contact screws [Ncm]	80		
Weight [g]	45	50	51

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP54 splashproof



STANDARD

SPECIAL

SPECIAL

250V~

50/60Hz
Flange
50x50

250V~

50/60Hz
Flange
70x70

250V~

50/60Hz
Flange
75x75

PCE

Amp.	Poles	pack. unit	Abbreviations/Types	Cat.No.	Cat.No.	Cat.No.
						
16	3	100	„SC“ side connection, with child protection (shutter) color: white	10484-0wsc		
						
16	3	100	rear connection (standard)	1040-0b		
16	3	100	„S“ side connection	1040-0bs		
16	3	100	„C“ with child protection (shutter)	 1040-0bc		
16	3	100	„SC“ side connection, with child protection (shutter)	 1040-0bsc		
						
16	3	100	rear connection (standard)	108-0b	108-7b	108-8b
16	3	100	„C“ with child protection (shutter)	 108-0bc	108-7bc	108-8bc
						
16	3	100	rear connection (standard)	104-0b	104-7b	104-8b
16	3	100	„S“ side connection	104-0bs	104-7bs	104-8bs
16	3	100	„C“ with child protection (shutter)	 104-0bc	104-7bc	104-8bc
16	3	100	„SC“ side connection, with child protection	 104-0bsc	104-7bsc	104-8bsc



10484-0wsc



1040-0b

108-0b
Flange = 50x50104-0b
Flange = 50x50

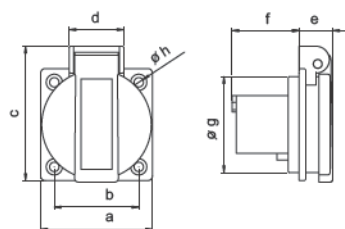
Special versions are available on request. For more information about our ordering system, please have a look on page 148.

Minimum quantity for ordering special versions: 1.000 pieces



Plugs and socket outlets

Flanged sockets conforming to Danish, English and Swiss system

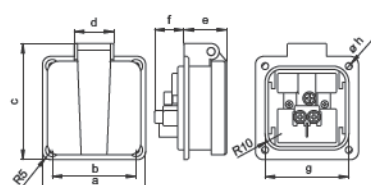


Socket outlet Danish system

	16 Amp
Poles	2P + E
a	50
b	38
c	60
d	24,5
e	15
f	30
g	43
h	4,2
Connection type:	Screwed contact
Weight [g]	42

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP44 splashproof 

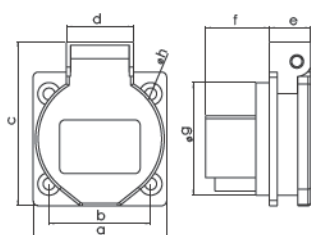


Socket outlet English version

	13 Amp	13 Amp
Poles	2P + E	2P + E
a	64	50
b	52	38
c	72	64
d	25	25
e	26,5	18
f	18	22
g	52	35
h	4,2	4,5
Connection type:	Screwed contact	
Weight [g]	67	50

- with screw terminals
- housing material: PA6

IP54 splashproof 

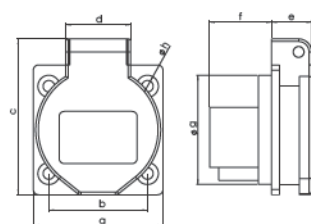


Socket outlet Swiss version T13

	10 Amp
Poles	2P + E
a	50
b	38
c	62
d	29
e	15
f	23
g	42
h	4,2
Connection type:	Screwed contact
Weight [g]	42

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP54 splashproof

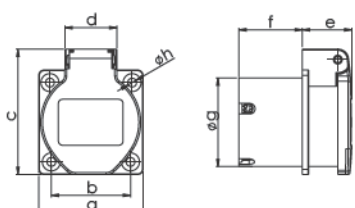


Socket outlet Swiss version T23

	16 Amp
Poles	2P + E
a	50
b	38
c	60
d	25
e	15
f	24
g	42
h	4,2
Connection type:	Screwed contact
Weight [g]	42

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts

IP54 splashproof



Socket outlet Swiss version T25

	16 Amp
Poles	3L + N + PE
a	50
b	38
c	60
d	25
e	24
f	31
g	43
h	4,2
Connection type:	Screwed contact
Weight [g]	64

- with screw terminals
- housing material: PA6
- contacts: nickel-plated contacts
- 250V/400V~ 16A

IP54 splashproof



250V~

50/60Hz

400V~

50/60Hz

PCE

Amp.	Poles	pack. unit	Abbreviations/Types
16	3	100	rear connection Flange: 50 x 50
16	3	100	rear connection Flange: 50 x 50

Cat.No.

Cat.No.

1030-0b
1030-0sblue
black

1030-0b

13	3	100	side connection Flange: 64 x 64
13	3	100	side connection Flange: 50 x 50

1020-0s
1020-5sblack
black

1020-5s

10	3	100	rear connection Flange: 50 x 50
----	---	-----	---------------------------------

1013-0b

blue



1013-0b

16	3	100	side connection Flange: 50 x 50
----	---	-----	---------------------------------

1023-0bs

blue



1023-0bs

16	5	100	rear connection Flange: 50 x 50
----	---	-----	---------------------------------

1025-0r

red



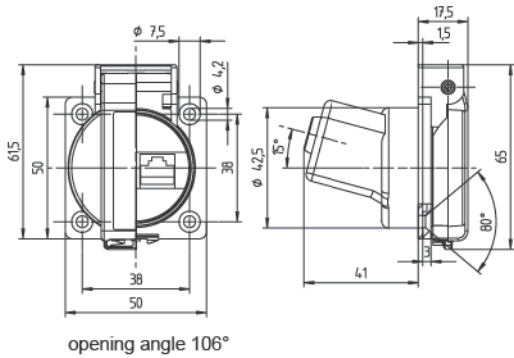
1025-0r



Plugs and socket outlets

Data socket outlets and accessories

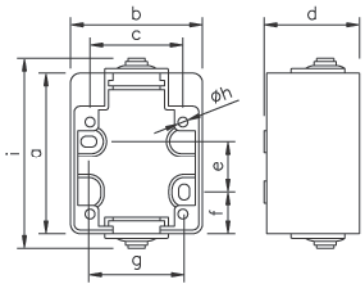
Data socket outlet



- 2xRJ45 Cat.6 Modul 8(8)
- with insulation displacement connection

IP55 dust- and waterproof

Mounting box



a	66
b	54
c	38
d	39
e	21
f	17
g	39
h	3
i	78
Weight [g]	43

- for sockets PNOVA Plus with lid and flange size 50 x 50 mm
- suitable also for Swiss socket T23 1023-0bs and for Danish socket 1030-0b

IP44 splashproof

Advantages:

- easy mounting - long holes for screws
- hole distance dimensions - on the rear
- space between wall and box by nipples
- 2 entries for PG 13,5
- holes for dehydration available

Flange gasket for P-Nova+

- for flange 50x50mm

Flange gasket can be mounted additionally if required. (e.g.: for uneven surfaces)

Flange gasket for P-Nova

- for flange 50x50mm

Flange gasket can be mounted additionally if required. (e.g.: for uneven surfaces)

16 3 10

yellow

45k23



16 3 24
16 3 24

blue
grey

106-0
106-0g

Fields of application:
designed for use in workshop halls, garages, industrial plants, outside walls, ...
Mounting box is supplied complete.



106-0



Version: Flange gasket for P-Nova+

d105-05



Version: Flange gasket for P-Nova

d105-0



NAUTILUS[®]



**WATERTIGHT
PLUGS AND CONNECTORS IP66/68**

Watertight Plugs and Sockets IP66/68

- robust design
-  for severe conditions
- housing material PC/ABS
- IP66/68 waterproof up to 2 bar / 2 h
- cover with bayonet
- very large hinged lid opening angle (~160°)
- contact-supporting part of PA6, glow wire test 850°C
- open contact screw head +/-
- nickel-plated screw terminals
- cover and cap with elastic band
- axels and mounting screws in stainless V2A quality
- two earthing system (plug)
- screwless cable gland (plug/connector)

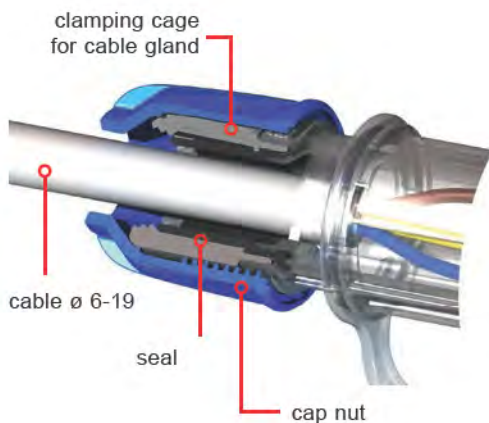


Austrian/German system
with/without shutter

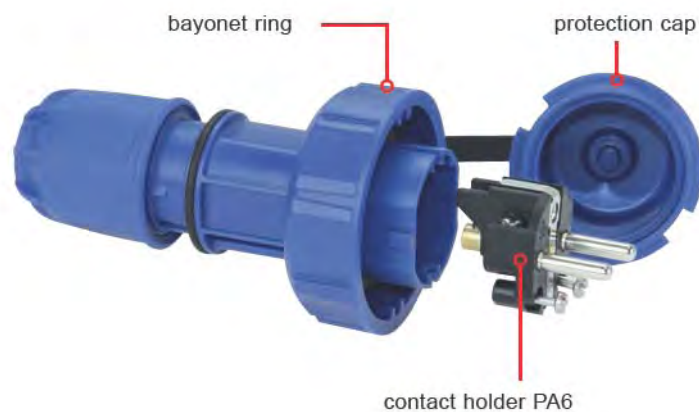


Belg./French system
with/without shutter

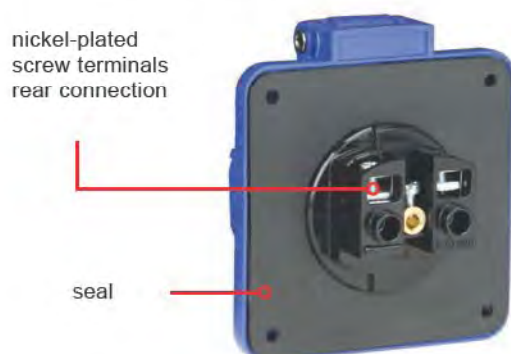
Plug/Connector



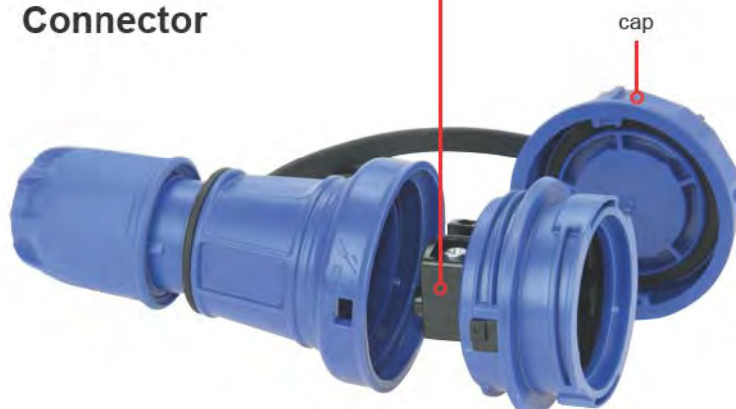
Plug



Flanged socket

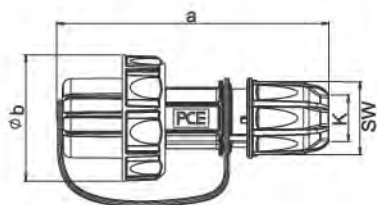


Connector



NAUTILUS

Watertight plugs and connectors IP66/68

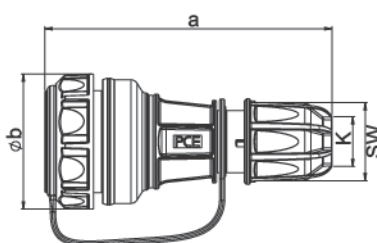


Plug with protection cap IP66/68

	16 Amp
Poles	2P + E
a	144
Ø b	65
K (cable Ø)	6 - 19
SW	38
Connection type:	Screwed contact
Wire flexible [mm²]	1 - 2,5
Contact screws [Ncm]	100
Weight [g]	120

- with screw terminals
- housing material: PC/ABS
- contacts: nickel-plated
- protection cap with band

IP66/68 watertight
up to 2 bar / 2h



Connector with cap IP66/68

	16 Amp
Poles	2P + E
a	140
Ø b	65
K (cable Ø)	6 - 19
SW	38
Connection type:	Screwed contact
Wire flexible [mm²]	1 - 2,5
Contact screws [Ncm]	100
Weight [g]	140

- with screw terminals
- housing material: PC/ABS
- contacts: nickel-plated
- cap with band

IP66/68 watertight
up to 2 bar / 2h



250V~
50/60Hz

PCE

Amp.	Poles	pack. unit	Abbreviations/Types	Cat.No.
------	-------	---------------	---------------------	---------

			Austr./German system + Belg./French system	
16	3	10	2-earthing systems	20051-b

ÖVE



20051-b

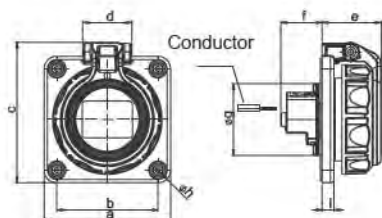
			Austr./German system	
16	3	10	without child protection (shutter)	20251-b
16	3	10	with child protection (shutter)	20251-bc
			Belg./French system	
16	3	10	without child protection (shutter)	20241-b
16	3	10	with child protection (shutter)	20241-bc

ÖVE



20051-b



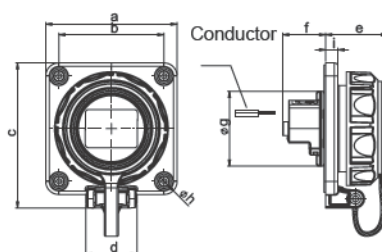


Flanged socket with hinged lid

	16 Amp
Poles	2P + E
a	75
b	60
c	84
d	30
e	36
f	25
g	43
h	5,5
i	7
Connection type:	Screwed contact
Wire flexible [mm²]	1 - 2x2,5
solid [mm²]	1 - 2x2,5
Contact screws [Ncm]	80
Weight [g]	-

- with screw terminals
- housing material: PC/ABS
- contacts: nickel-plated contacts
- rear connection
- 4-point fastening

IP66/68 watertight
up to 2 bar / 2h

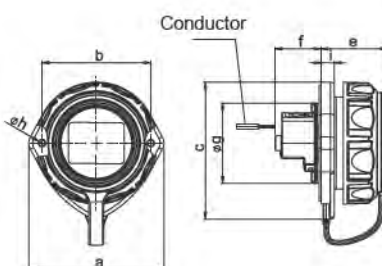


Flanged socket with cover band

	16 Amp
Poles	2P + E
a	75
b	60
c	84
d	30
e	36
f	25
g	43
h	5,5
i	7
Connection type:	Screwed contact
Wire flexible [mm²]	1 - 2x2,5
solid [mm²]	1 - 2x2,5
Contact screws [Ncm]	80
Weight [g]	-

- with screw terminals
- housing material: PC/ABS
- contacts: nickel-plated contacts
- rear connection
- 4-point fastening

IP66/68 watertight
up to 2 bar / 2h



Flanged socket oval with cover band

	16 Amp
Poles	2P + E
a	72
b	58
c	75
e	36
f	25
g	43
h	4
i	7
Connection type:	Screwed contact
Wire flexible [mm²]	1 - 2x2,5
solid [mm²]	1 - 2x2,5
Contact screws [Ncm]	80
Weight [g]	-

- with screw terminals
- housing material: PC/ABS
- contacts: nickel-plated contacts
- rear connection
- 2-point fastening

IP66/68 watertight
up to 2 bar / 2h



Opening and closing:

When opening the hinged lid it latches into a defined position which prevents the lid when closing in a half position (Fig.1) on the housing. The open and closed position is visible by the position of the silver label to make sure, that the socket is closed all the way to be watertight.



„Click...“



Fig.1



Labelling field horizontal

=>

cover waterproof closed

IP68

Labelling field vertical

=>

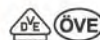
cover not closed correctly (not seal)

IP68

250V~
50/60Hz

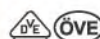
PCE

Amp.	Poles	pack. unit	Abbreviations/Types	Cat.No.
16	3	10	Austrian/German system rear connection, flange 75x75	20352-8b
16	3	10	„C“ rear connection, flange 75x75, with child protection (Shutter)	20352-8bc
16	3	10	Belg./French system rear connection, flange 75x75	20342-8b
16	3	10	„C“ rear connection, flange 75x75, with child protection (Shutter)	20342-8bc



20342-8b

16	3	10	Austrian/German system rear connection, flange 75x75	20351-8b
16	3	10	„C“ rear connection, flange 75x75, with child protection (Shutter)	20351-8bc
16	3	10	Belg./French system rear connection, flange 75x75	20341-8b
16	3	10	„C“ rear connection, flange 75x75, with child protection (Shutter)	20341-8bc



20341-8b

16	3	10	Austrian/German system rear connection, oval flange	20351-9b
16	3	10	„C“ rear connection, oval flange with child protection (Shutter)	20351-9bc
16	3	10	Belg./French system rear connection, oval flange	20341-9b
16	3	10	„C“ rear connection, oval flange with child protection (Shutter)	20341-9bc



20351-9b

■ Screw head seal:

Plastic bed „A“ acts as an additional screw head seal to prevent water entering through the screw head.

Flange gasket (seal) „B“ additionally prevents water entering through the threaded shaft of the screw.





PLUGS

- IP44
-  for severe conditions
- 16A 250V~
- rubber and solid rubber
- single and dual-point earthing system



Rubber



Solid rubber

easy assembly and disassembly
of the contact carriers
large connection area
time saving installation

simple handling
robust design
easy disassembly of shroud
slim design



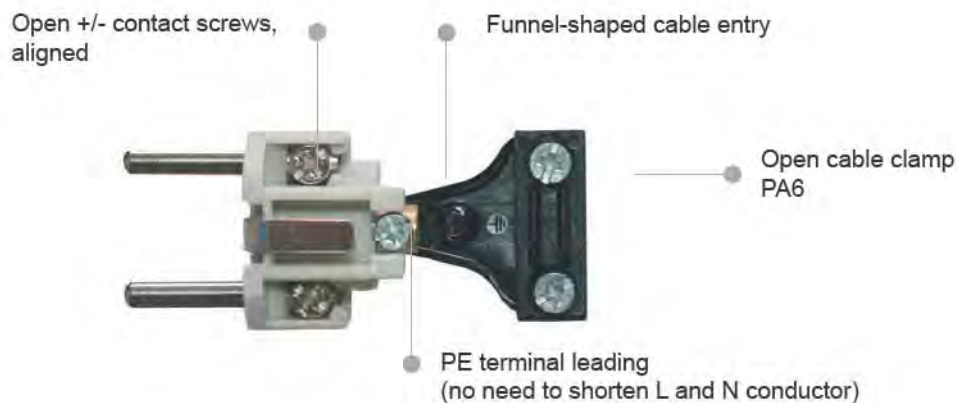
PLUG SYSTEMS



Max. 3G2,5 mm² rubber-sheathed flexible cable

CONNECTOR SYSTEMS

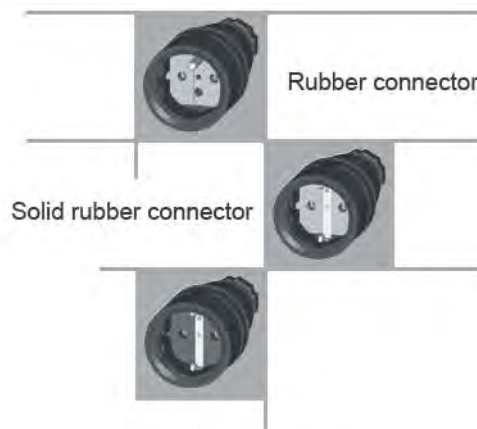
PLUG MODULES



CONNECTOR SYSTEMS

- IP44
-  for severe conditions
- 16A 250V~
- rubber and solid rubber
- dual-point earthing system

Rubber connector Belgian/French earth



Cable clamp:

internal

easy to use cable clamp elements
(open screws)

large connection area

simple initial assembly via
notched contact carriers

Contact and connection system:

all contact screws can be adjusted from a single direction (parallel alignment).





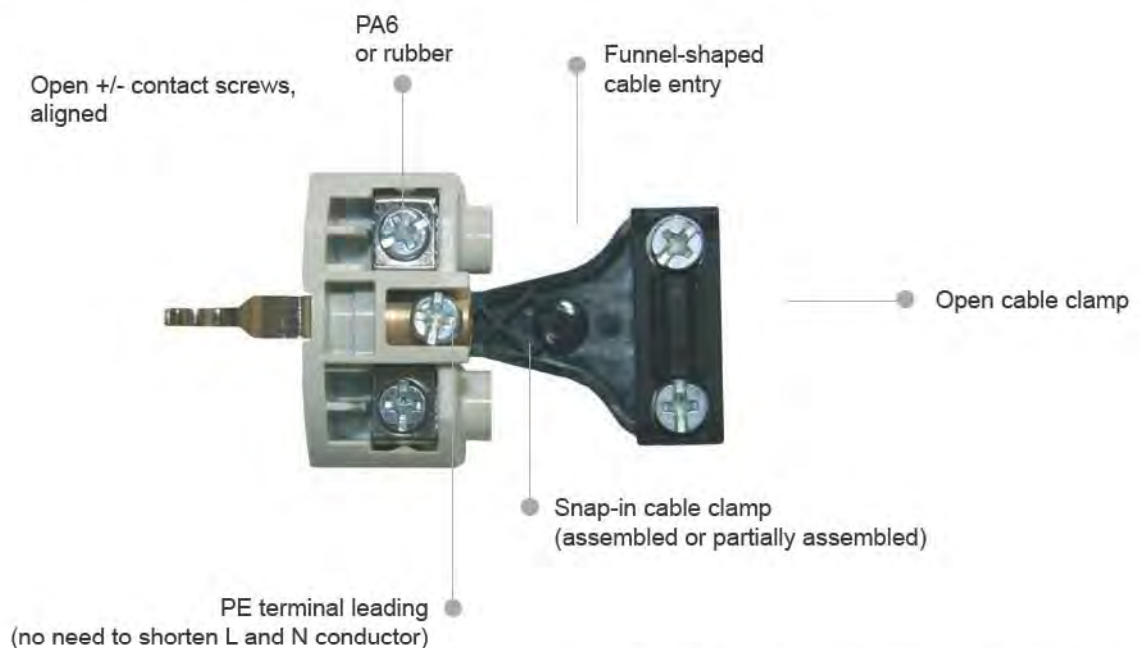
SERIES

TAURUS

PLUG AND CONNECTOR SYSTEMS



CONNECTOR MODULES



Max. 3G2,5 mm² rubber-sheathed flexible cable



3-WAY CONNECTORS

- IP44
-  for severe conditions
- 16A 250V
- rubber and solid rubber

contact carriers integrated in housing

own contact elements

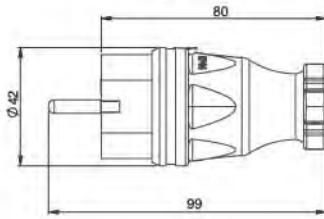
open cable clamp

Separate assembly area
Connection at terminals



Safety plugs

Rubber plug IP44



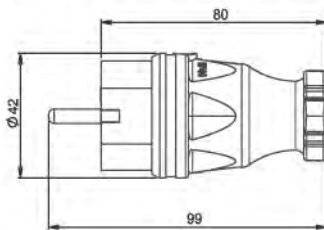
• Insert: polyamide

IP44 splashproof



Insert:	acc. Austrian/German system	dual earthing system	acc. Belg./French System
Polyamide	0511-s	0521-s	0531-s
pack.unit:	30	30	30

Solid rubber plug IP44



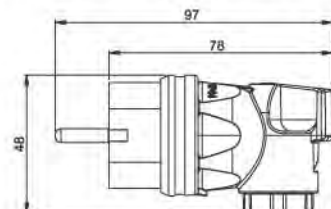
• Insert: rubber

IP44 splashproof



Insert:	acc. Austrian/German system	dual earthing system	acc. Belg./French System
Rubber	0512-s	0522-s	0532-s
pack.unit:	30	30	30

Angled plug (rubber / solid rubber) IP44



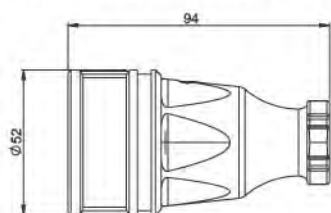
IP44 splashproof



Insert:	acc. Austrian/German system	dual earthing system	acc. Belg./French System
Polyamide	05811-s	05821-s	05831-s
Rubber	05812-s	05822-s	05832-s
pack.unit	30	30	30



Rubber connector IP20



- Insert: polyamide

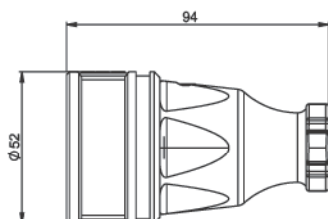
IP20



Insert:	acc. Austrian/German system	acc. Belg./French System
Polyamide	2510-s	2410-s
Polyamide with child protection	2510-sc	2410-sc
pack.unit	20	20



Solid rubber connector IP20

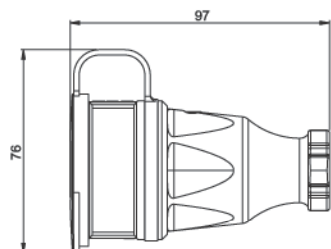


- Insert: rubber



Insert:	acc. Austrian/German system	
Rubber	2520-s	
pack.unit	20	

Rubber connector with cap IP44



- with cap
- Insert: polyamide

IP44

splashproof

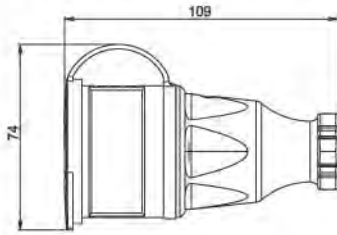


Insert:	acc. Austrian/German system	acc. Belg./French System
Polyamide	2511-s	2411-s
Polyamide with child protection	2511-sc	2411-sc
pack.unit	20	20



Safety connectors

Solid rubber connector with cap IP44



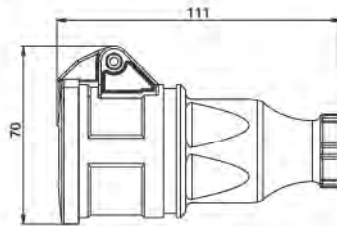
• Insert: rubber

IP44 splashproof 



Insert:	acc. Austrian/German system	
Rubber	2521-s	
pack, unit	20	

Solid rubber connector with hinged lid IP44



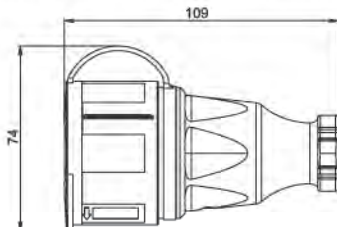
• Insert: rubber

IP44 splashproof 



Insert:	acc. Austrian/German system	
Rubber	2522-s	
pack, unit	20	

Rubber connector with cap and locking ring IP44



• With cap and locking ring
• Insert: polyamide

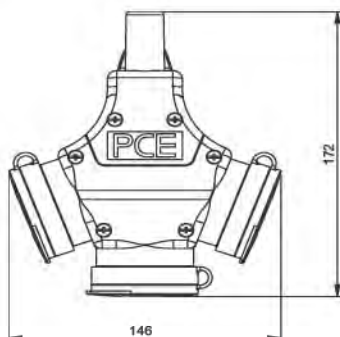
IP44 splashproof 



Insert:	acc. Austrian/German system	acc. Belg./French System
Polyamide	2511-sl	2411-sl
Polyamide with child protection	2511-scl	2411-scl
VPE	20	20



3-way connector rubber with cap* IP44



- with cap
- Insert: polyamide

IP44 splashproof



Insert:	acc. Austrian/German system	acc. Belg./French System
Polyamide	25311-s	24311-s
Polyamide with child protection	25311-sc	24311-sc
pack.unit	5	5



* 3-way connectors with hinged lid see page 177

3-way connector rubber with cap* and 5-pole connector IP44



- 5-pole connector terminal
- With cap
- Insert: polyamide

IP44 splashproof



Insert:	acc. Austrian/German system	acc. Belg./French System
Polyamide	25311-s5	24311-s5
Polyamide with child protection		24311-sc5
pack.unit	5	5

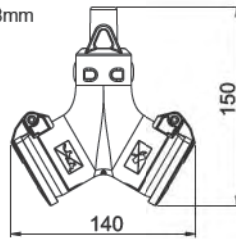


* 3-way connectors with hinged lid see page 177

Safety plugs and sockets POLYAMIDE

2-way connector with hinged lid IP44

height=58mm



- With hinged lid
- Insert: polyamide

IP44 splashproof



Insert:	acc. Austrian/German system	acc. Belg./French System
Polyamide	25212-r	24212-r
Polyamide with child protection	25212-rc	24212-rc
pack.unit	10	10

Safety plugs and connectors

Polyamide

Plug

- Polyamide

IP20

Color	pack. unit	acc. Austrian/German system		dual earthing system
		cable entry central	cable entry side	cable entry central
white	50	02958	05018	08266
brown	50	02961	05021	08282
black	50	02974	05034	08295
grey	50	02980	05040	



Connecor

- Polyamide

IP20

Color	pack. unit	acc. Austrian/German system		acc. Belg./Franz. system
		cable entry central	cable entry side	cable entry central
white	25	05148		08224
brown	25	05164		
black	25	05177		08253
grey	25	05180		



Plug British system 13A

Plug

- Polyamide
- With integrated 13A fuse
- Cable entry: side

IP32

Color	pack. unit.	acc. brit. system
		cable entry side
black	10	00200





PLUG & CONNECTOR

- IP44
-  for severe conditions
- 16A 250V~
- only solid rubber
- screwless cable gland
- perfect grip
- plug: dual earthing system
- connector: two earthing systems (Austrian/German system, Belg./French system)



easy assembly and disassembly of
the contact carriers

time saving (shorter connection time)
due to the external cable clamp

large connection area

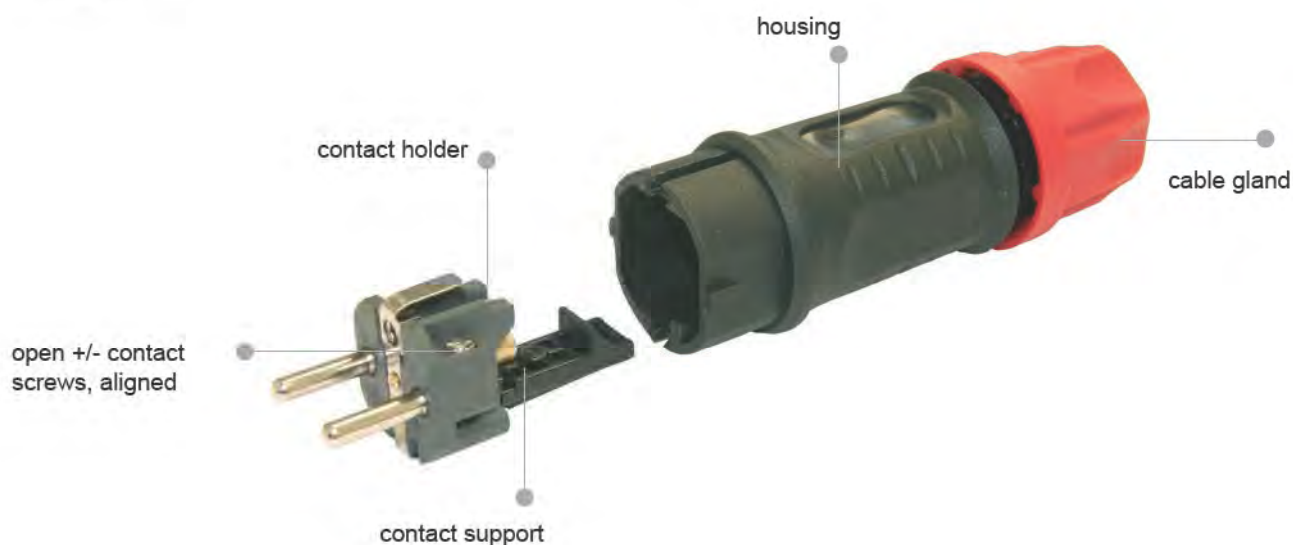
simple handling

robust design

up to 3G 2,5mm²



PLUG MODULES



CONNECTOR SYSTEMS



CONNECTOR MODULES



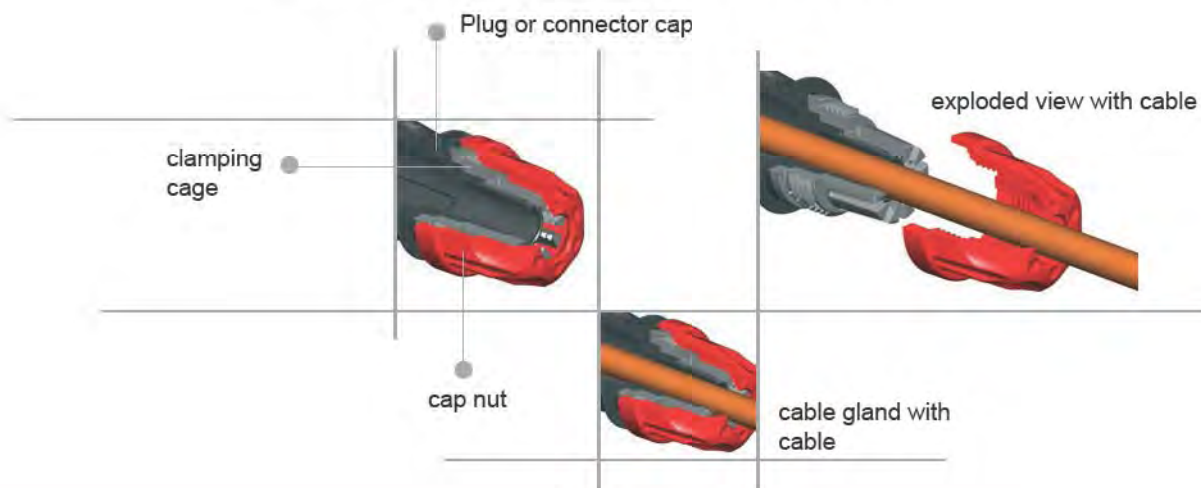
3-WAY CONNECTOR

- hinged lid (self closing)
- large connection area
- 3 or 5 pole terminal
- suspension hook

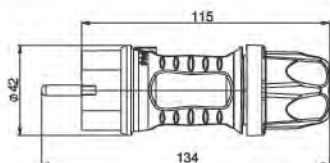


CABLE CLAMP

- externally placed
- easy handling
- simple assembly
- for cable diameters from Ø 6mm to Ø 13mm



Solid rubber plug IP44



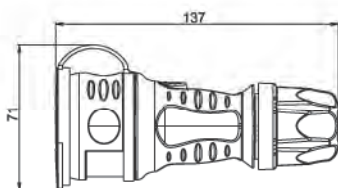
• Insert: rubber

IP44 splashproof



Insert:		dual earthing system	
Rubber		05622-s	
pack.unit		20	

Solid rubber connector with cap IP44



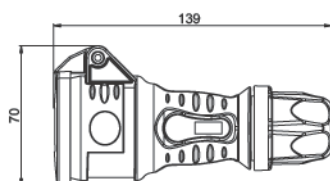
• with cap

IP44 splashproof



Insert:	acc. Austrian/German system	acc. Belg./French System
Rubber	25621-s	
Polyamide with sealing bulge		24611-s
Polyamide with sealing bulge and child protection		24611-sc
pack.unit	10	10

Solid rubber connector with hinged lid IP44



• with hinged lid

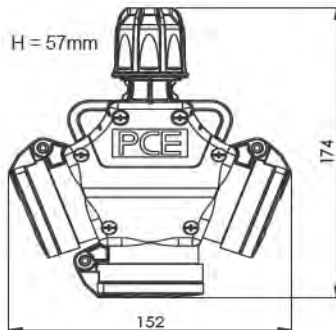
IP44 splashproof



Insert:	acc. Austrian/German system	
Rubber	25622-s	
pack.unit	10	

CONNECTOR SYSTEMS

3-way connector solid rubber with hinged lid IP44



- With hinged lid
- External centric cable gland
- Insert: rubber

IP44 splashproof 



Insert:	acc. Austrian/German system	
Rubber	253622-s	
pack.unit	5	

3-way connector solid rubber with hinged lid and 5-pole terminal IP44

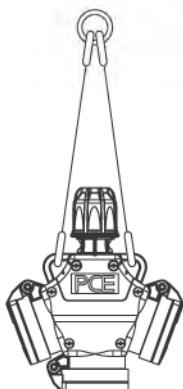


- 5-pole terminal
- With hinged lid
- External centric cable gland
- Insert: rubber

IP44 splashproof 



Insert:	acc. Austrian/German system	
Rubber	253622-s5	
pack.unit	5	



▶ 3-way connectors are also perfectly for hanging usage!



Multiple-sockets outlet

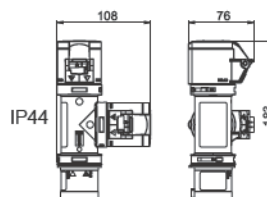


T-Connect 2-way connector with CEE plug

Fittings:

- 1 CEE-plug 16A 3p 6h
- 2 CEE-sockets 16A 3p 6h

IP44 splashproof
IP67 watertight



Cat.No.

IP44 **94325103***

IP67 **94326103***

pack.unit: 10

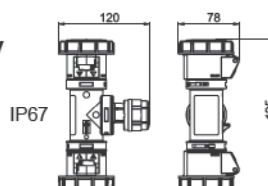


T-Connect 2-way connector with cable entry

Fittings:

- 1 cable entry with cable gland (terminal max. 3x2,5mm²)
- 2 CEE-sockets 16A 3p 6h outlet

IP44 splashproof
IP67 watertight



IP44 **94325102**

IP67 **94326102**

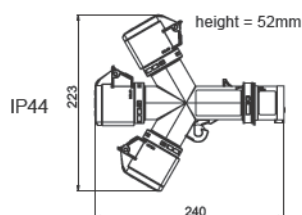
pack.unit: 10



Multiple-socket outlet

- nickel plated contacts
- also available in 110V

IP44 splashproof
IP67 watertight



Entry:
1 CEE-plug 16A 3p 230V

Outlet:
3 CEE-sockets 16A 3p 230V

IP44 **9432000***

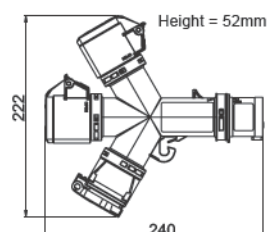
IP67 **9432001***



Multiple-socket outlet

- nickel plated contacts
- also available in 110V
- available also with Belg./French, Danish and British sockets

IP44 splashproof



Entry:
1 CEE-plug 16A 3p 230V

Outlet:
2 CEE-sockets 16A 3p 230V
1 safety socket 16A 250V

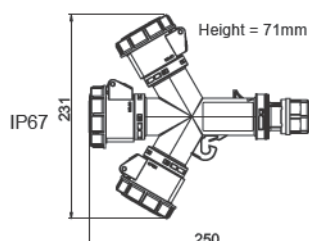
IP44 **9432004***



Multiple-socket outlet

- nickel plated contacts
- also available in 110V

IP44 splashproof
IP67 watertight



Entry:
1 Twist-cable gland prewired on terminals

Outlet:
3 CEE-sockets 16A 3p 230V

IP44 **9432006**

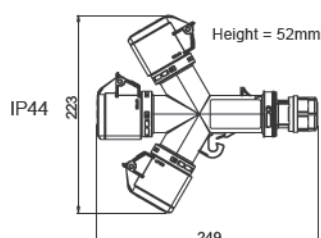
IP67 **9432007**



Multiple-socket outlet

- nickel plated contacts
- also available in 110V

IP44 splashproof
IP67 watertight



Entry:
1,5m cable with plug 16A 3p 230V

Outlet:
3 CEE-sockets 16A 3p 230V

IP44 **9432002**

IP67 **9432003**

* Export version (Usage in Austria and Germany not allowed!) - other versions on request