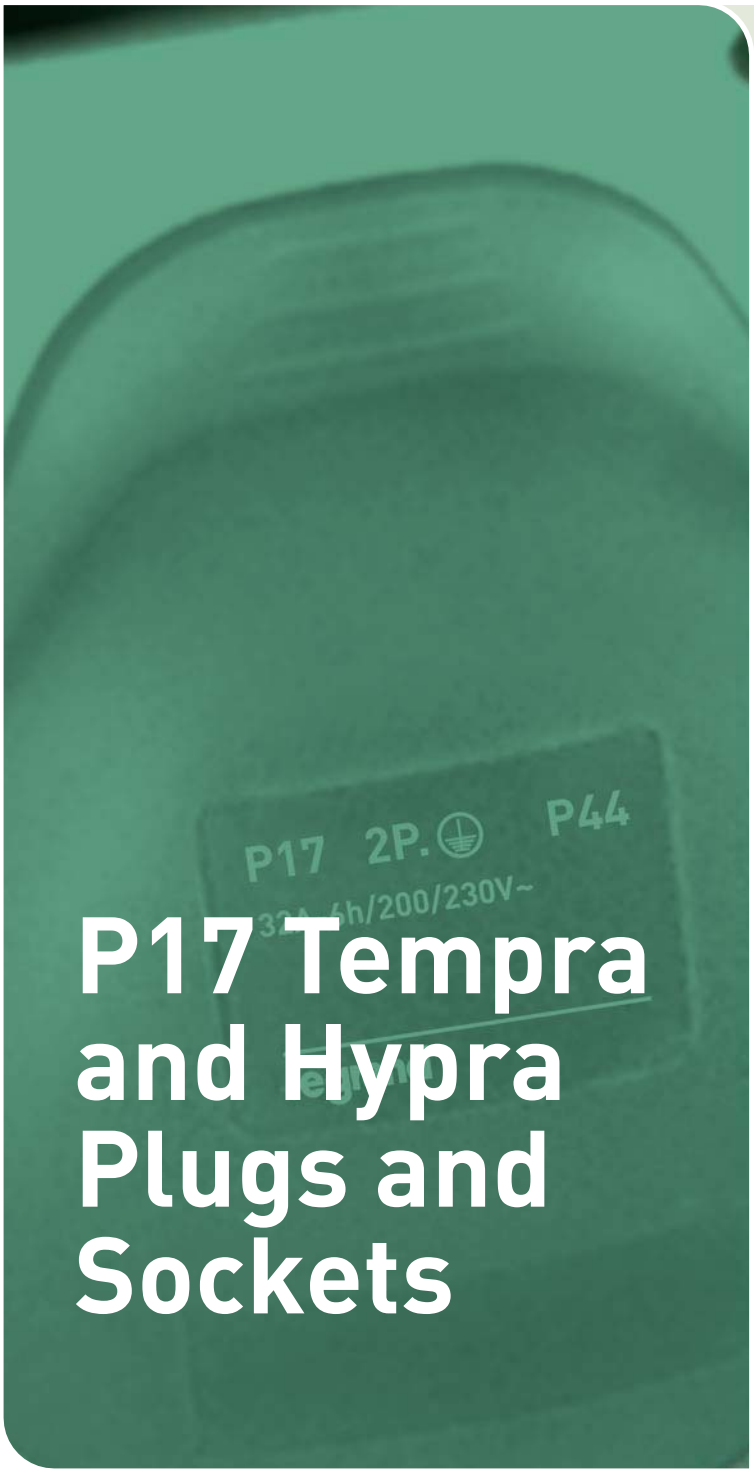


P17 Tempra and Hypra Plugs and Sockets

P17 Tempra plugs and sockets

P. 344 Surface mounting sockets

Hypra Prisinter and Hypra plugs and sockets

P. 345 Prisinter panel mounting sockets

P17 Tempra Combined units

P. 344 Interlocked switched sockets without protection

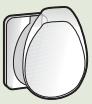
Metra plugs and sockets

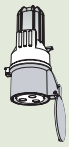
P. 360 Sockets

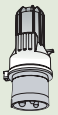
Dimensions

P. 353-354 P17 Tempra plugs and sockets

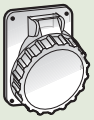
P. 344
Inclined panel mounting sockets

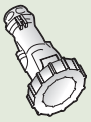

P. 344
Straight panel mounting sockets

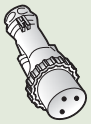

P. 344
Mobile sockets


P. 344
Straight plugs

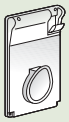
P. 345
Straight plugs IP 44-7

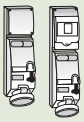

P. 345
Inclined panel mounting sockets


P. 345
Mobile sockets


P. 345
Straight plugs IP 67-7

P. 344
Interlocked switched sockets with DIN rail


P. 344
Panel mounting with inter locked switched sockets


P. 344
Interlocked switch socket combined units

P. 360
Plugs

P. 358-359
Hypra Prisinter and Hypra plugs and sockets

P. 355
P17 Tempra Combined units

P. 361
Metra plugs and sockets

P17 tempra and hypra plugs and sockets

For safe connection which you can depend on. Ensures the protection of personnel at electrical installation

> P17 Tempra plugs and sockets

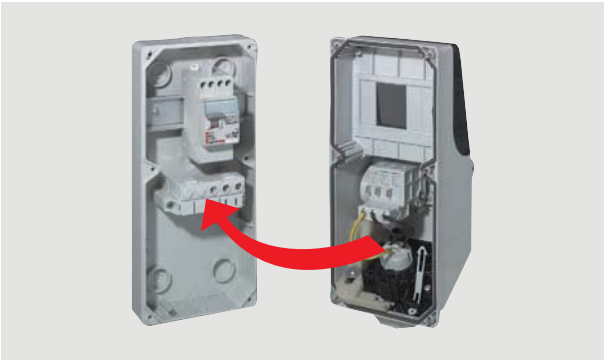
- 16 Amps to 125 Amps
- Fast fix captive screws
- Screwless cable clamp
- IP 44, IP 66/67
- Surface mounting, panel mounting and mobile sockets, (straight or inclined)
- Straight plugs
- IK 09

> Hypra prisinter and Hypra plugs and sockets

- For extremely harsh environment
- With 2 half clamps for uniform grip on cable, in case of plugs
- IP 44, IP 66/67
- Panel mounting and mobile sockets
- Straight plugs
- IK 09

> P17 Tempra combined units

- 2 sizes only
- Transparent flap with fastener
  - View of Lexic modular protection devices
  - Easy maintenance
  - Guaranteed weatherproofing
- Locking handle for a more accurate reading of ON/OFF positions
- IP 44, IP 55, IP 66
- IK 09



> P17 Tempra combined units

- Fast and reliable wiring
- DIN rail for fitting Lexic modular protection device
- Plug-in system : fast wiring of the socket in the cover on site, independently of the box already mounted on the wall Automatic and reliable connection of the socket when mounting in the box

> Metra metallic plugs and sockets

- With aesthetically elegant, white plugs and sockets
- Metal clad plugs and sockets for trouble free termination of air conditioners

> Ekinoxe plug and socket DB's for P17 Tempra

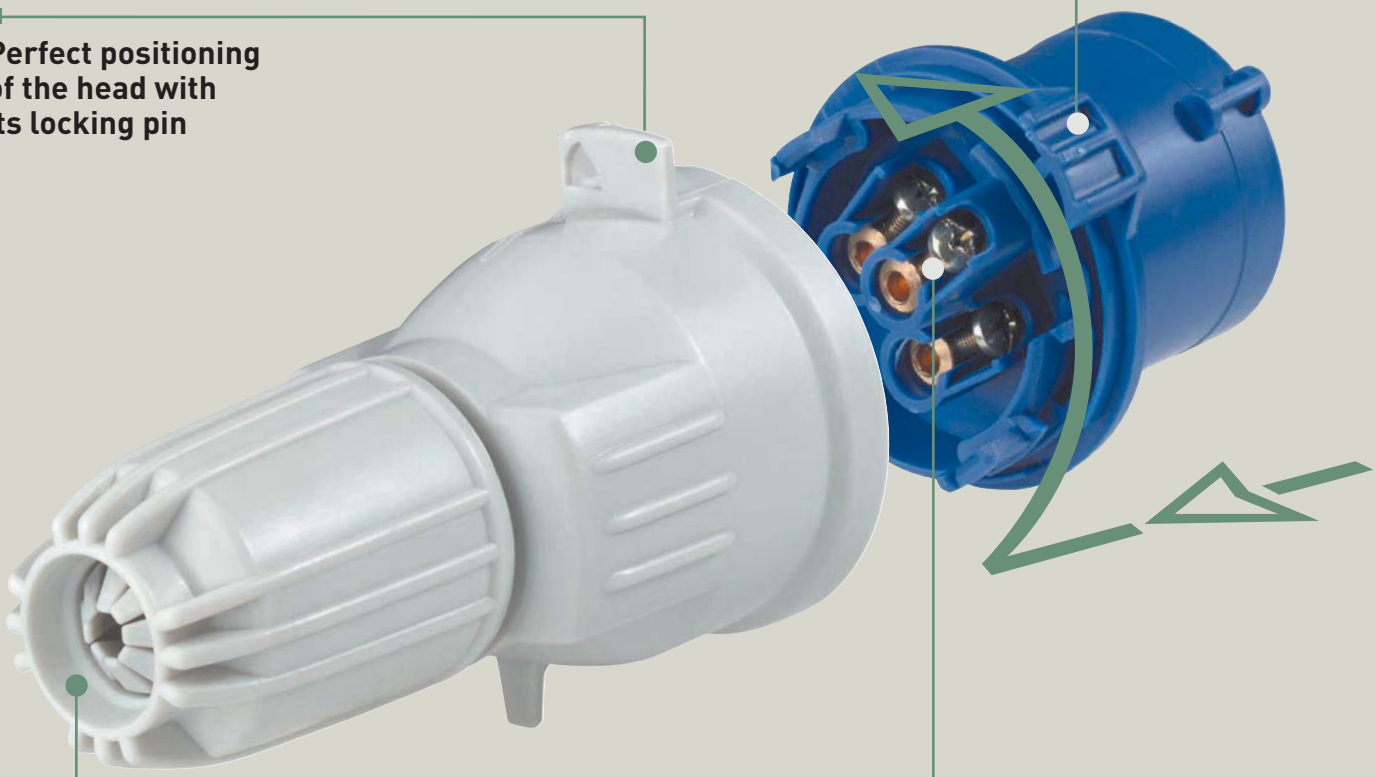
- 16 A and 20 A plug and socket distribution boards suitable for SP / DP MCBs or DP RCCBs
- 32 A and 63 A plug and socket distribution boards suitable for TP / FP MCBs or FP RCCBs or FP Loadstop RCBOs

P17 Tempra
quicker to install

New P17 Tempra Plugs & Sockets, from 16 A to 32 A is faster to connect & lock, thus saving your time on site.

Instant locking with screwless clamping

Perfect positioning of the head with its locking pin



Maximum cable grip easy with the screwless cable clamp.

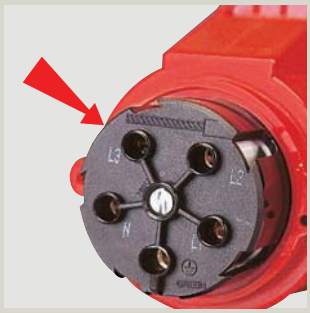
Direct connection with universals screws all terminals facing the same direction.

The larger body size makes wiring very easy.

Maximum safety:
The elongated earth pin is disconnected last.

For surface mounting sockets:
The unit clips directly onto the base.

IP 67 plug has fast fix, captive screws (with ¾ rotation) reduce fixing time. Mixed screw heads enable use of 2 types of screw drivers.



Stripping template engraved on internal plate for optimal areas of contact.

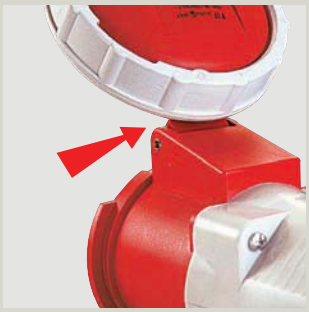
Marking space for label.

Specially designed cable gland ensures waterproofing in IP 67 plug and mobile socket

Ribbed grip. Thumb operated socket lids for easy one handed operation.

Marking of opening and closing position of the socket on the ring, guaranteeing IP 67 protection.

Hand grips on the sides of plugs and sockets for ease of use.



Flap held in open position due to retaining system. Enables easier plugging of products.

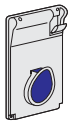
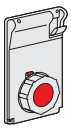
plugs & sockets - P17 Tempra
16 to 32 A

LV												
			Surface mounting sockets✧		Panel mounting sockets - inclined		Panel mounting sockets straight		Mobile sockets		Straight Plugs	
			IP 44		IP 44		IP 44		IP 44		IP 44	
			Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack
200 to 250 V ∿* 50/60 Hz	16 A / 20 A	2 P + ⏚	0555 53	10	0576 11	**5**/50	0573 54	**5**/50	0575 14	10	0574 34	10
	32 A	2 P + ⏚	0555 73	10	0576 12	**5**/25	0580 54	5/25	0582 14	10	0581 34	10
380 to 415 V ∿* 50/60 Hz	16 A / 20 A	3 P + ⏚	0555 57	10	0576 17	**5**/25	0573 58	**5**/50	0575 18	10	0574 38	10
		3 P + N + ⏚	0555 58	10	0576 23	**5**/50	0573 59	**5**/50	0575 19	10	0574 39	10
	32 A	3 P + ⏚	0555 77	10	0576 18	**5**/25	0580 58	**5**/50	0582 18	10	0581 38	10
		3 P + N + ⏚	0555 78	10	0576 24	**5**/25	0580 59	**5**/25	0582 19	10	0581 39	10

✧ - With isometric threaded cable entries : 16 A = M 20, 32 A = M 25, 63 A = M 32.
* In IEC 38, the network voltage value of 230/400 V AC has been standardised. This value should progressively supercede the values of 220/380 V AC and 240/415 V AC. Wherever there is a reference to 230 V or 400 V, they may be read as 220 V or 240 V and 380 V or 415 V respectively.

plugs & sockets - interlocked switched sockets
16 to 63 A

- **IK 08 according to IEC 62262**
- **Self-extinguishing: 750° C according to standard IEC 60695-2-1**

LV														
			Surface mounting				Surface mounting				Surface mounting without protection			
			Without protection 125 X 220 mm				With din rail 125 X 280 mm				Panel mounting 125 x 220 mm			
			IP 44		IP 55		IP 44		IP 66		IP 44		IP 55	
			Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack
200 to 250 V ∿* 50 Hz	16 A / 20 A	2 P + ⏚	0566 01	1	0566 21	1	0566 41	1	0566 61	1	0572 01	1	0572 21	1
	32 A	2 P + ⏚	0566 09	1	0566 29	1	0566 49	1	0566 69	1	0572 09	1	0572 29	1
380 to 415 V ∿* 50 Hz	32 A	3 P + ⏚	0566 13	1	0566 33	1	0566 53	1	0566 73	1	0572 13	1	0572 33	1
		3 P + N + ⏚	0566 14	1	0566 34	1	0566 54	1	0566 74	1	0572 14	1	0572 34	1

- **IK 08 according to IEC 62262**
- **Self-extinguishing: 750°C according to standard IEC 60695-2-1**

LV						
			Surface mounting with protection			
			125 x 421 mm		125 x 501 mm	
			IP 66		IP 66	
			Cat nos.	Pack	Cat nos.	Pack
380 to 415 V ∿ 50/60 Hz	63 A	3 P + ⏚	0572 98	1	0589 18	1
		3 P + N + ⏚	0589 10	1	0572 99	1

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plugs & sockets - P17 Tempra
16 to 125 A

- Conforming to IEC 60309-1/60309-2
- Material : Plastic
- Self-extinguishing : 850°C
- IK 09 according to IEC 62262

LV			Surface mounting sockets✧ IP 67		Panel mounting sockets - inclined IP 67		Mobile sockets IP 67		Straight Plugs IP 67	
			Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack
200 to 250 V ∿* 50/60 Hz	16 A / 20 A	2 P + ⏚	0553 03	-	0576 51	5/50	-	-	0563 03	5/20
	32 A	2 P + ⏚	0553 23	-	0576 52	5/25	-	-	0563 23	5/20
380 to 415 V ∿* 50/60 Hz	32 A	3 P + ⏚	0553 07	-	0576 58	5/25	-	-	0563 27	5/20
		3 P + N + ⏚	-	-	0576 64	5/25	-	-	0563 28	5/20
	63 A	3 P + N + ⏚	0587 45	**2**	0587 25	**2**	0587 15	**2**	0587 05	**2**
	125 A	3 P + N + ⏚	0591 07	**1**	0591 17	**1**	0591 37	**1**	0591 27	**1**

✧ - With isometric threaded cable entries : 16 A = M 20, 32 A = M 25, 63 A = M 32.

plugs & sockets - Hypra
16 to 125 A

- Conforming to IEC 60309-1/60309-2
- Material : Plastic
- IK 09 according to IEC 62262

LV			Prisinter panel mounting sockets IP 44		Panel mounting sockets IP 44		Mobile sockets IP 44		Straight plugs IP 44	
			Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack	Cat nos.	Pack
200 to 250 V ∿* 50/60 Hz	16 A / 20 A	2 P + ⏚	0520 02	**1**/10	-	-	-	-	0520 42	-
	32 A	2 P + ⏚	0527 02	**1**/6	-	-	-	-	0527 42	-
380 to 415 V ∿* 50/60 Hz	16 A / 20 A	3 P + ⏚	-	-	0522 23	5/50	0522 83	5/50	0522 43	5/50
	32 A	3 P + ⏚	0529 03	**1**/6	-	-	-	-	0529 43	-
		3 P + N + ⏚	0529 04	**1**/6	-	-	-	-	0529 44	5/15
	63 A	3 P + ⏚	-	-	0538 23	1	-	-	0538 43	1/5
		3 P + N + ⏚	0536 04	**1**	-	-	-	-	0538 44	**1**/5
	125 A	3 P + N + ⏚	-	-	-	-	-	-	-	-

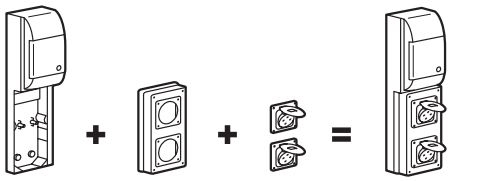
* In IEC 38, the network voltage value of 230/400 V AC has been standardised. This value should progressively supercede the values of 220/380 V AC and 240/415 V AC. Wherever there is a reference to 230 V or 400 V, they may be read as 220 V or 240 V and 380 V or 415 V respectively.

P17 Tempra combined units - LV 16 to 63 A
to be composed

- IK 08 according to IEC 62262
- Self-extinguishing: 650 °C
- Max. IP 66

Technical characteristics (p. 357)

Example of combined unit configuration



COMBINED UNITS HEIGHT 220 MM TO 441 MM

BASES FOR 220 x 125 MM FACEPLATES

Surface mounting box		Base up to 2 sockets 16 A		Base up to 3 sockets 16 A		Base up to 6 sockets 16 A	
220 x 125 mm[4]		371 x 125 mm[4] Rail 5 Lexic modules		441 x 265 mm[4] Rail 12 Lexic modules		441 x 405 mm[4] Rail 18 Lexic modules	
Pack	**Cat.No**	**Pack**	**Cat.No**	**Pack**	**Cat.No**	**Pack**	**Cat.No**
2	0577 10	1	0589 38	1	0577 05	1	0577 06

220 X 125 MM FACEPLATES

1 for socket 16 or 32 A		2 for sockets 16 A		1 for socket 63 A		Plain plate	
Pack	**Cat.No**	**Pack**	**Cat.No**	**Pack**	**Cat.No**	**Pack**	**Cat.No**
5	0577 12	5	0577 13[1]	2	0577 17	5	0577 15

COMBINED UNITS HEIGHT 280 MM TO 501 MM

BASES FOR 280 x 125 MM FACEPLATES

Surface mounting box		Base up to 3 sockets 16 A		Base up to 6 sockets 16 A		Base up to 9 sockets 16 A	
280 x 125 mm[4]		421 x 125 mm[4] Rail 5 Lexic modules		501 x 265 mm[4] Rail 12 Lexic modules		501 x 405 mm[4] Rail 18 Lexic modules	
Pack	**Cat.No**	**Pack**	**Cat.No**	**Pack**	**Cat.No**	**Pack**	**Cat.No**
3	0577 11	1	0577 20	1	0577 03	1	0577 04

280 x 125 MM FACEPLATE

2 sockets 16 or 32 A		1 socket 16 or 32 A and 1 socket 63 A		3 for socket 16 A[3]		Plain plate	
Pack	**Cat.No**	**Pack**	**Cat.No**	**Pack**	**Cat.No**	**Pack**	**Cat.No**
4	0577 18[1]	2	0577 19[1]	4	0577 14[1]	4	0577 16

(1) Supplied with blanking plate (2) To be fixed horizontally except 16 A domestic pin sockets, vertically (IP 44 - connected)
(3) IP 54 cover closed - IP 44 connected (4) External dimensions: H x W

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Cat. nos. that are not bold - delivery within 4 weeks from the date of order.
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EXAMPLE OF SOCKETS

schuko socket (p. 350)			IP 54	
250 V	16 A	2P+⏚	0576 72	
LV (p. 348)			IP 44	IP 67
200/250 V~	16 A	2P+⏚	0576 11	0576 51
	32 A	2P+⏚	0576 12	0576 52
380/415 V~	16 A	3P+⏚	0576 17	0576 57
		3P+N+⏚	0576 23	0576 63
	32 A	3P+⏚	0576 18	0576 58
		3P+N+⏚	0576 24	0576 64

Possible combinations with bases for 220 x 125 mm faceplates

Cat.No	Nb of sockets	Intensity			Number of faceplates		
		16 A	16 A or 32 A	63 A	0577 12	0577 13	0577 17
With box or base							
0577 10 or 0589 38	1 socket	-	1	-	1	-	-
		-	-	1	-	-	1
	2 sockets	2	-	-	-	1	-
0577 05	2 sockets	-	2	-	2	-	-
		-	1	1	1	-	1
		-	-	2	-	-	2
	3 sockets	3	-	-	1	1	-
		2	1	-	1	1	-
		2	-	1	-	1	1
	4 sockets	4	-	-	-	2	-
0577 06	3 sockets	-	3	-	3	-	-
		-	-	3	-	-	3
		-	1	2	1	-	2
		-	2	1	2	-	1
	4 sockets	2	1	1	1	1	1
		2	2	-	2	1	-
		2	-	2	-	1	2
	5 sockets	4	1	-	1	2	-
		4	-	1	-	2	1
	6 sockets	6	-	-	-	3	-

EXAMPLE OF SOCKETS

Schuko Socket (p. 350)			IP 54	
250 V	16 A	2P+⏚	0576 72	
LV (p. 348)			IP 44	IP 67
200/250 V~	16 A	2P+⏚	0576 11	0576 51
	32 A	2P+⏚	0576 12	0576 52
380/415 V~	16 A	3P+⏚	0576 17	0576 57
		3P+N+⏚	0576 23	0576 63
	32 A	3P+⏚	0576 18	0576 58
		3P+N+⏚	0576 24	0576 64

Possible combinations with bases for 280 x 125 mm faceplates

Cat.No	Nb of sockets	Intensity			Number of faceplates		
		16 A	16 A or 32 A	63 A	0577 18	0577 19	0577 14
With box or base							
0577 11 or 0577 20	2 sockets	-	2	-	1	-	-
		-	1	1	-	1	-
	3 sockets	3	-	-	-	-	1
0577 03	4 sockets	-	4	-	2	-	-
		-	2	2	-	2	-
		-	3	1	1	1	-
	5 sockets	3	1	1	-	1	1
		3	2	-	1	-	1
	6 sockets	6	-	-	-	-	2
0577 04	6 sockets	-	6	-	3	-	-
		-	3	3	-	3	-
		-	5	1	2	1	-
		-	4	2	1	2	-
	7 sockets	3	2	2	-	2	1
		3	4	-	2	-	1
		3	3	1	1	1	1
	8 sockets	6	1	1	-	1	2
		6	2	-	1	-	2
	9 sockets	9	-	-	-	-	3

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P 17 Tempra IP 44 - LV 16 and 32 A
sockets, plugs and mobile sockets

0555 53

0573 54

0574 34

0575 14

Technical characteristics (p. 353-354)

Terminal connection:
• Panel and surface mounting sockets
16 A: max. 1 x 4 mm² rigid
32 A: max. 1 x 10 mm² rigid
• Plugs & mobile sockets:
16 A: max. 1 x 2.5 mm² flexible
32 A: max. 1 x 6 mm² flexible
IP 44 according to IEC 60529 and EN 60529
IK 09 according to IEC 62262 and EN 62262
Material: plastic
Self-extinguishing: 850 °C (support of active parts)/650 °C (plastic housing)
- 25 °C to + 40 °C according to IEC 60309-1

Surface mounting sockets

Pack	Cat.Nos 16 A	Cat.Nos 32 A	
10	0555 53	0555 73	200/250 V~ 2 P + ⏚
10	0555 57	0555 77	380/415 V~ 3 P + ⏚
10	0555 58	0555 78	3 P + N + ⏚

Straight plugs

Pack	Cat.Nos 16 A	Cat.Nos 32 A	
10	0574 34	0581 34	200/250 V~ 2 P + ⏚
10	0574 38	0581 38	380/415 V~ 3 P + ⏚
10	0574 39	0581 39	3 P + N + ⏚

Panel mounting sockets inclined outlet

Pack	Cat.Nos 16 A	Cat.Nos 32 A	
10	0576 11	0576 12	200/250 V~ 2 P + ⏚
10	0576 17	0576 18	380/415 V~ 3 P + ⏚
10	0576 23	0576 24	3 P + N + ⏚

Mobile sockets

Pack	Cat.Nos 16 A	Cat.Nos 32 A	
10	0575 14	0582 14	200/250 V~ 2 P + ⏚
10	0575 18	0582 18	380/415 V~ 3 P + ⏚
10	0575 19	0582 19	3 P + N + ⏚

Panel mounting sockets straight outlet small flange

Cannot be fixed on pre-drilled faceplates

Pack	Cat.Nos 16 A	Cat.Nos 32 A	
5	0573 54	0580 54	200/250 V~ 2 P + ⏚
5	0573 58	0580 58	380/415 V~ 3 P + ⏚
5	0573 59	0580 59	3 P + N + ⏚

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P 17 Tempra IP 66/67 - LV 16 and 32 A
sockets, plugs and mobile sockets

0553 07

Technical characteristics (p. 355)

Terminal connection:
• Panel and surface mounting sockets
16 A: max. 1 x 4 mm² rigid
32 A: max. 1 x 10 mm² rigid
• Plugs & mobile sockets:
16 A: max. 1 x 2,5 mm² flexible
32 A: max. 1 x 6 mm² flexible
IP 66/67 according to IEC 60529 and EN 60529
IK 09 according to IEC 62262 and EN 62262
Material: plastic
Self-extinguishing: 850 °C (support of active parts)/650 °C (plastic housing)
Temp. rating: - 25 °C to + 40 °C
Conform to IEC 60309-1 and IEC 60309-2

Pack	Cat.Nos 16 A	Cat.Nos 32 A	Surface mounting sockets	
				200/250 V~
5	0553 03	0553 23	2 P + ⏚	
				380/415 V~
5	0553 07	0553 27	3 P + ⏚	
5	0553 08	0553 28	3 P + N + ⏚	
			Panel mounting sockets	
				200/250 V~
5	0576 51	0576 52	2 P + ⏚	
				380/415 V~
5	0576 57	0576 58	3 P + ⏚	
5	0576 63	0576 64	3 P + N + ⏚	
			Straight plugs	
				200/250 V~
5	0563 03	0563 23	2 P + ⏚	
				380/415 V~
5	0563 07	0563 27	3 P + ⏚	
5	0563 08	0563 28	3 P + N + ⏚	
			Mobile sockets	
				200/250 V~
5	0562 03	0562 23	2 P + ⏚	
				380/415 V~
5	0562 07	0562 27	3 P + ⏚	
5	0562 08	0562 28	3 P + N + ⏚	

P 17 Tempra IP 66/67 - LV 63 and 125 A
sockets, plugs and mobile sockets

0587 05

0587 14

Technical characteristics (p. 354)

Terminal connection:
• Panel and surface mounting sockets
63 A: max. 1 x 25 mm² rigid
125 A: max. 1 x 70 mm² rigid
• Plugs & mobile sockets:
63 A: max. 1 x 16 mm² flexible.
125 A: max. 1 x 50 mm² flexible
IP 66/67 according to IEC 60529 and EN 60529
IK 09 according to IEC 62262 and EN 62262
Material: plastic
Self-extinguishing: 850 °C (support of active parts)/650 °C (plastic housing)
Temp. rating: - 25 °C to + 40 °C
Conform to IEC 60309-1 and IEC 60309-2

Pack	Cat.Nos 63 A	Cat.Nos 125 A	Surface mounting sockets	
				200/250 V~
2	0587 40		2 P + ⏚	
				380/415 V~
2/1	0587 44	0591 06	3 P + ⏚	
2/1	0587 45	0591 07	3 P + N + ⏚	
			Panel mounting sockets	
				200/250 V~
2	0587 20		2 P + ⏚	
				380/415 V~
2/1	0587 24	0591 16	3 P + ⏚	
2/1	0587 25	0591 17	3 P + N + ⏚	
			Straight plugs	
				200/250 V~
2	0587 00		2 P + ⏚	
				380/415 V~
2/1	0587 04	0591 26	3 P + ⏚	
2/1	0587 05	0591 27	3 P + N + ⏚	
			Mobile sockets	
				200/250 V~
2	0587 10		2 P + ⏚	
				380/415 V~
2/1	0587 14	0591 36	3 P + v	
2/1	0587 15	0591 37	3 P + N +⏚	

P 17 Tempra IP 44 - LV 16A

schuko sockets

NEW

Technical characteristics (p. 355)

Schuko std. sockets
IK 09 according to IEC/EN 62262
IP 44 connected
IP 54 cover closed
Material: plastic
Self-extinguishing: 850 °C (support of active parts) / 650-°C (plastic housing
Temp. rating: - 50 °C to + 80 °C

Pack	Cat.Nos	**Panel mounting sockets**
	Schuko standard	Can be fixed on faceplate
	16 A	200/250 V~
20	0576 72	2 P + ⏚

		Panel mounting sockets with small flange
		Cannot be fixed on pre-drilled faceplate
		200/250 V~
20	0576 70	2 P + ⏚ (colour: blue)
20	0576 69	2 P + ⏚ (colour: white)

P17 IP44, 54, 66/67 - LV 16-125A

Combined Unit - Interlock Switch Sockets & refrigerated container use

- Conforming to IEC 60695-1/60695-2
- Material - Plastic
- IK 08 as per IEC 62262
- Selfextinguishing : 750 C
- IEC/EN 62262 (refrigerated container use)

Pack	Cat. nos. 16 A	Cat. nos. 32 A	
			IP44 Interlock Switch Sockets with surface mounting box
1	0566 01	0566 09	250 V, 2P+E
1	-	0566 13	415 V, 3P+E
1		0566 14	415 V, 3P+N+E
			IP55 Interlock Switch Sockets with surface mounting box
1	0566 21	0566 29	250 V, 2P+E
1		0566 33	415 V, 3P+E
1		0566 34	415 V, 3P+N+E
			IP44 Interlock Switch Sockets with surface mounting box and din rail for 5 module Lexic protection
1	0566 41	0566 49	250 V, 2P+E
		0566 53	415 V, 3P+E
		0566 54	415 V, 3P+N+E
			IP66 Interlock Switch Sockets with surface mounting box and din rail for 5 module Lexic protection
1	0566 61	0566 69	250 V, 2P+E
1		0566 73	415 V, 3P+E
1		0566 74	415 V, 3P+N+E

Pack	Cat. nos. 63 A	
		IP66 Interlock Switch Sockets with surface mounting box
1	0572 98	415 V, 3P+E
1	0589 10	415 V, 3P+N+E
		IP66 Interlock Switch Sockets with surface mounting box and din rail for 5 module Lexic protection
1	0589 18	415 V, 3P+E
1	0572 99	415 V, 3P+N+E

Pack	Cat. nos.	**Combined units for refrigerated containers**
		IP 66/67 plastic P 17 Tempra
		32 A - 440 V~ - 50/60 Hz - 3 P + ⏚ - 3 hours
		IK 09
		Plastic body and cover
		Stainless steel screws
1	6571 06	Combined unit with interlocked switched socket
		Double mechanical interlock
		Cable glands are not supplied
1	6571 26	Straight plug
		With cable grip Ø 12 to 21.5 mm
1	6571 46	Mobile socket
		With cable grip Ø 12 to 21.5 mm

maximum safety conforming to international standards

Safe and simple, Ideal for industry

- Rated voltages - 240 V⏦ and 415 V⏦
- Protection categories - IP 44 and IP 67
- Colour coding for voltage identification
  Blue Colour for 240 V⏦
  Red Colour for 415 V⏦
- Material of plugs and sockets special high grade plastic. Shock proof at low and high temperatures.

■ Technical data

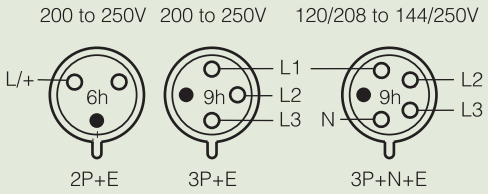
- The IEC 60309-1 ensures the protection of personnel at electrical installations.
- The IEC 60309-2 ensures interchangeability of dimensions and harmonisation of pin configurations.

Each polarity has a clockwise index. Thus, these plastic plugs and sockets are suitable for any plugs and sockets that conform to the standard IEC 60309-2.

■ Socket voltage identification (front view of socket)

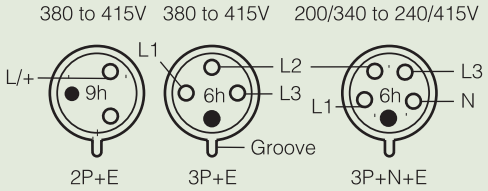
LV : indicated by the position of the earth pin socket in relation to the groove on the base

240 V⏦ - 50-60 Hz - Blue



• Earth contact

415 V⏦ - 50-60 Hz - Red



• Earth contact

LV : indicated by the position of the earth pin socket in relation to the groove on the base

Legrand plugs and sockets conform to the universal standard IEC 60309 - 2. Therefore, these plugs and sockets are compatible with any plug and socket conforming to the same standard, whether in Austria or Australia.

The terminal connection capacities for rigid cables are :

LV 16 A	1 to 4 mm²
LV 32 A	2.5 to 10 mm²
LV 63 A	6 to 25 mm²
LV 125 A	25 to 70 mm²

typical application

■ Technical data

The choice of the right type of industrial plugs and sockets must take into account the following:

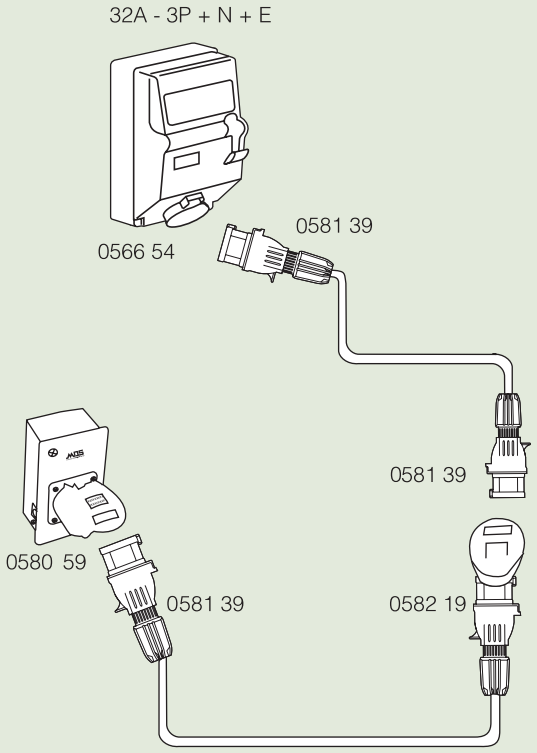
- Whether the equipment is mobile or stationary
- The current rating and voltage
- The required degree of IP protection

Socket outlets: “Panel mounting sockets” are fixed directly on the panel door, while “surface mounting sockets” are fixed on a wall. “Switched sockets” include a built-in switch.

Mobile sockets: are installed at the end of the cable.

Plugs: are installed at the end of the cable and form part of the electrical portable or mobile equipment. When connected with a mobile socket, they make an extension lead, thus activating a distant outlet.

Appliance inlets: installed on machines and other mobile electrical equipment, to receive current necessary for operation through their mobile socket.



■ Hypra Prisinter socket

Safe to close
the power is connected only when the plug is locked

Safe to open
the plug cannot be unlocked until the power has been disconnected

Simple to use
Switched ON by simply rotating the plug

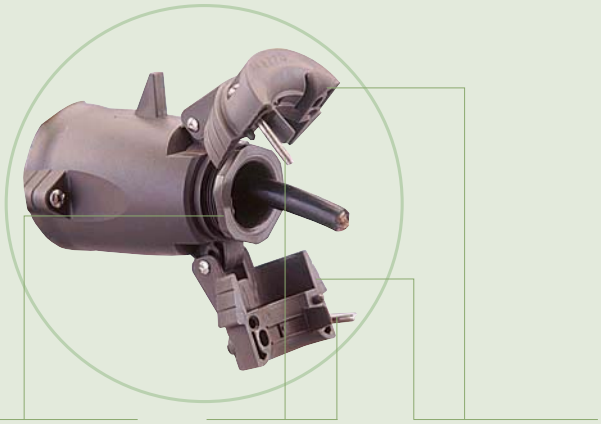
Safety of personnel
Earth continuity maintained even when the plug is not in use

Operating safety
Colour coding and 309-2 pin configuration prevent incorrect plugging

Switch performance
Increased safety
Breaking capacity:

	16A	32A	63A
AC_1	16A	32A	63A
AC_{23}	8.4kw	16.8 kw	33 kw
AC_3	8.4kw	16.8 kw	33 kw

■ Hypra plug



Weatherproof seal
cable gland held in position

Stainless steel external screws

Tensile force safety
2 half-clamps provide uniform grip for protection against accidental disconnection

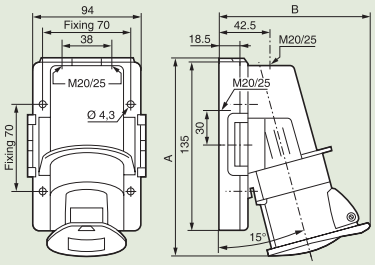
Note : AC_1 = Non inductive or slightly inductive load e.g., resistance furnace
AC_3 = Inductive load e.g., squirrel cage motor, switching OFF motors while running

P17 Tempra plastic

■ Dimensions

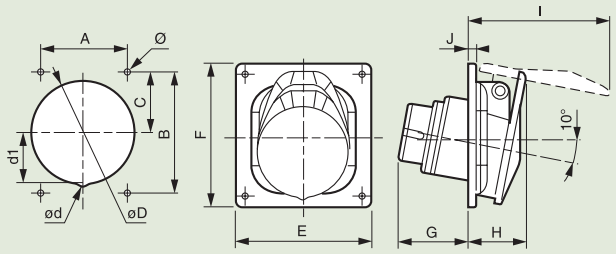
IP 44 - LV 16/32 A

Surface mounting sockets - 230 V~ to 380/415 V~



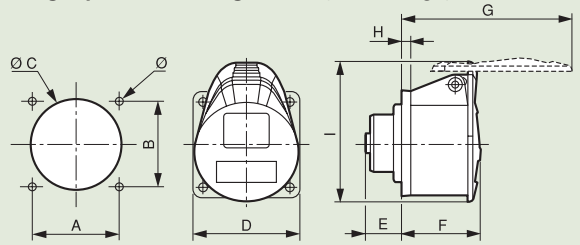
	LV 16A			LV 32A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	158	158	171	181	181	192
B	121	123	130	135	135	140
Cat no	0555 53	0555 57	0555 58	0555 73	0555 77	0555 78

Panel mounting sockets (Inclined outlet)



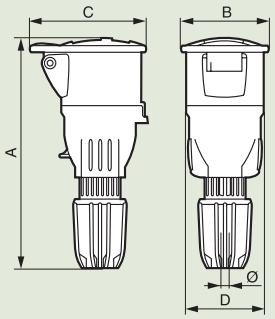
	Cat. no	Weight (kg)	A	B	C	ØD	Ød	d1	E	F	G	H	I	J	Ø
LV 16A															
2P+⏚	0576 11	0.110	70	70	35	76.2	-	-	84	84	42	33	83.5	4.5	4.2
3P+⏚	0576 17	0.140	70	70	35	76.2	-	-	84	84	43	34.5	91.3	4.5	4.2
3P+N+⏚	0576 23	0.165	70	70	35	76.2	-	-	84	84	43	36.5	100	4.5	4.2
LV 32A															
2P+⏚	0576 12	0.220	70	70	35	76.2	-	-	84	94	54	44	112	4.5	4.2
3P+⏚	0576 18	0.208	70	70	35	76.2	-	-	84	94	54	44	115	4.5	4.2
3P+N+⏚	0576 24	0.255	70	70	35	76.2	8	36	84	94	54	45	120	4.5	4.2

Straight panel mounting socket (small flange)



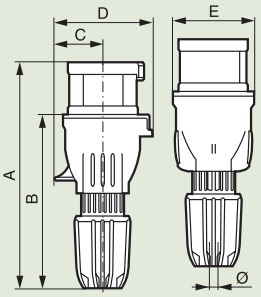
	Cat. no	Weight (kg)	A	B	ØC	D	E	F	G	H	I	Ø
LV 16A												
2P+⏚	0573 54	0.105	47	47	47	58	22.4	50	98.5	5.5	78.5	5.5
3P+⏚	0573 58	0.127	52	52	55	65	22.4	50.5	104	5.5	85.6	5.5
3P+N+⏚	0573 59	0.148	52	52	55	70	22.4	51	113	5.5	93.5	5.5
LV 32A												
2P+⏚	0580 54	0.197	60	60	57.1	75	31.4	61.3	127	5.5	97.5	5.5
3P+⏚	0580 58	0.197	60	60	57.1	75	31.4	61.3	127	5.5	97.5	5.5
3P+N+⏚	0580 59	0.246	60	60	63.5	77	31.4	61.7	134	5.5	104.5	5.5

Mobile sockets



	Cat no	A	B	C	D	Ø
LV 16A						
2P+⏚	0575 14	153 to 169	55	78	56	8 to 14
3P+⏚	0575 18	153 to 169	62	85	56	8 to 14
3P+N+⏚	0575 19	164 to 180	70	94	65	10 to 18
LV 32A						
2P+⏚	0582 14	174 to 190	71	98	65	10 to 18
3P+⏚	0582 18	174 to 190	71	98	65	12 to 20
3P+N+⏚	058219	177 to 191	77	101	72	14 to 21

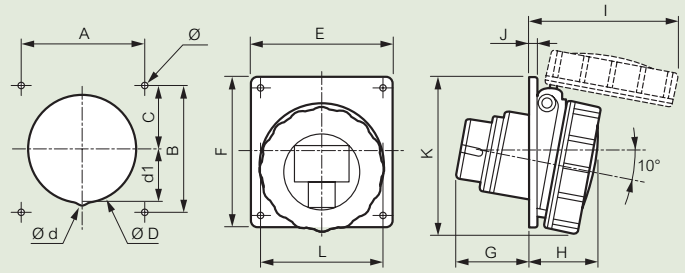
Straight plugs



	Cat no	A	B	C	D	E	Ø
LV 16A							
2P+⏚	0574 34	143 to 159	106 to 122	30	65	56	8 to 14
3P+⏚	0574 38	143 to 159	106 to 122	34	69	56	8 to 14
3P+N+⏚	0574 39	152 to 168	115 to 131	38	78	65	10 to 18
LV 32A							
2P+⏚	0581 34	161 to 177	115 to 131	39	79	65	10 to 18
3P+⏚	0581 38	161 to 177	115 to 131	39	79	65	12 to 20
3P+N+⏚	0581 39	167 to 181	121 to 135	45	88	72	14 to 21

IP 67 – LV 16 A

Panel mounting sockets (inclined outlet)



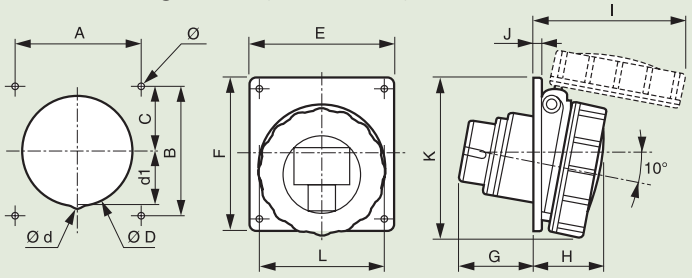
	Cat. no	Weight (kg)	A	B	C	ØD	Ød	d1	E	F	G	H	I	J	K	L	Ø
LV 16A																	
2P+⏚	0576 51	0.140	70	70	35	76.2	-	-	84	84	42	39	83	4.5	90	72.5	4.2

All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

■ Dimensions

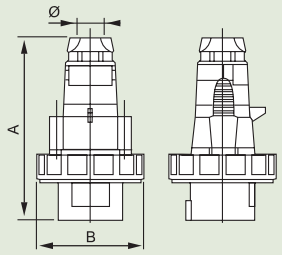
IP 67 – LV 32 A

Panel mounting sockets (inclined outlet)



	Cat. no	Weight (kg)	A	B	C	ØD	Ød	d1	E	F	G	H	I	J	K	L	Ø
LV 32 A																	
2P+⏚	0576 52	0.240	70	70	35	76.2	-	-	84	94	54	50	113	4.5	101	94.5	4.2
3P+⏚	0576 58	0.240	70	70	35	76.2	-	-	84	94	54	50	113	4.5	101	94.5	4.2
3P+N+⏚	0576 64	0.270	70	70	35	76.2	8	36	84	94	54	51	120	4.5	103	101	4.2

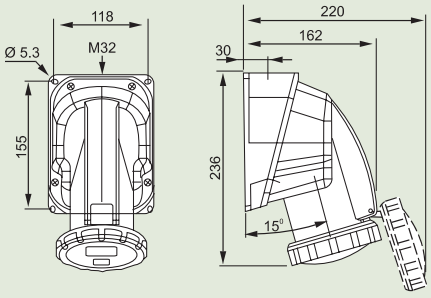
Straight plugs with membrane gland



	Cat. no	Weight (kg)	A	B	Ø
LV 16A					
2P+⏚	0563 03	0.165	122	72.5	8 to 14
LV 32A					
2P+⏚	0563 23	0.255	152	94.5	10 to 17.5
3P+⏚	0563 27	0.276	152	94.5	12 to 21.5
3P+N+⏚	0563 28	0.325	158	101	12 to 21.5

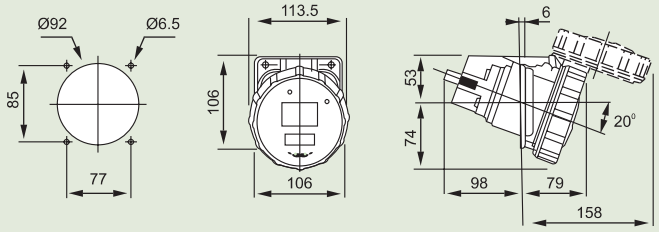
IP 67 – LV 63 A

Surface mounting sockets



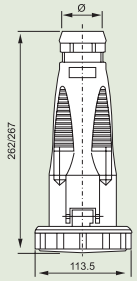
	Cat. no	Weight (kg)
LV 63A		
3P+N+⏚	0587 45	0.95

Panel mounting sockets (inclined outlet)



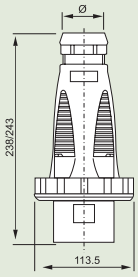
	Cat. no	Weight (kg)
LV 63A		
3P+N+⏚	0587 25	0.77

Mobile sockets
with cable gland



	Cat. no	Weight (kg)	Ø
LV 63A			
3P+N+⏚	0587 15	0.85	21.3 to 31.3

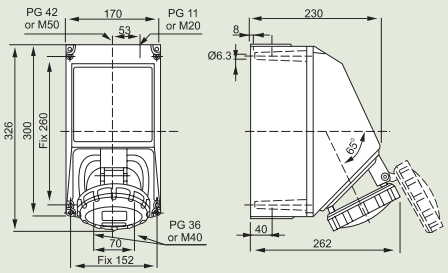
Straight plugs
with cable gland



	Cat. no	Weight (kg)	Ø
LV 63A			
3P+⏚	0587 04	0.57	19.3 to 28.5
3P+N+⏚	0587 05	0.64	21.3 to 31.3

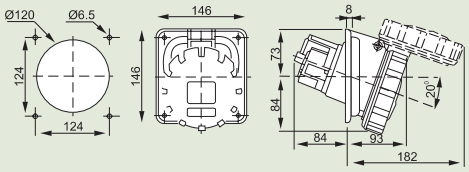
IP 67 – LV 125 A

Surface mounting sockets



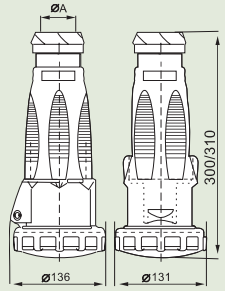
	Cat. no	Weight (Kg)
3P+N+⏚	0591 07	2.73

Panel mounting sockets (inclined outlet)



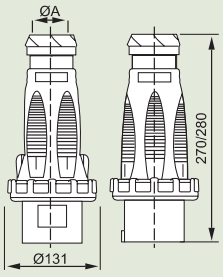
	Cat. no	Weight (Kg)
3P+N+⏚	0591 17	1.2

Mobile Sockets



	Cat. no	Weight (Kg)	Ø A
3P+N+⏚	0591 37	1.53	28.5 to 50

Straight plugs



	Cat. no	Weight (Kg)	Ø A
3P+N+⏚	0591 27	1.22	28.5 to 50

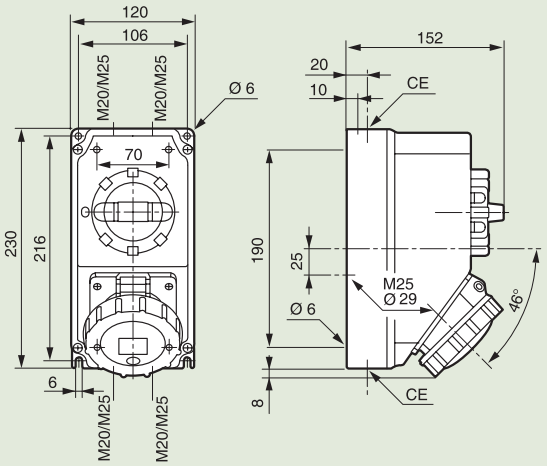
All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

P17 Tempra IP 66/67 - LV 32A

refrigerated container use

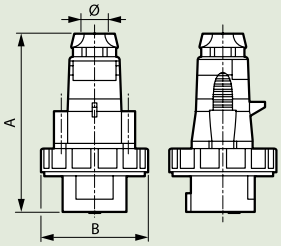
■ IP 66/67 plastic P 17 Tempra

Cat.No 6571 06



Straight plugs

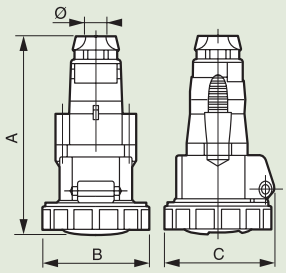
Cat.No 6571 26



	Weight (kg)	A	B	Ø
LV 32 A				
3 P+⏚	0.276	152	94.5	12 to 21.5

Mobile sockets

Cat.No 6571 46

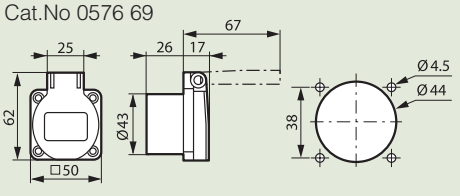


	Weight (kg)	A	B	C	Ø
LV 32 A					
3 P+⏚	0.320	171	94.5	103	12 to 21.5

■ Dimensions

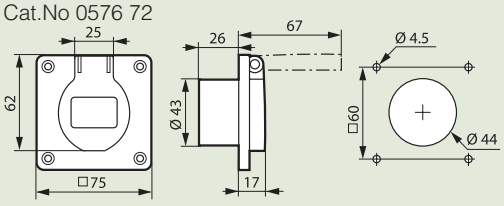
Domestic pin configuration sockets

Cat.No 0576 69



Weight: 0.046 Kg

Cat.No 0576 72



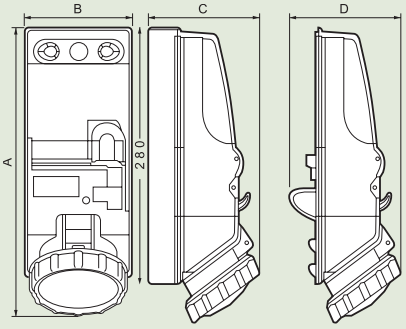
Weight: 0.052 Kg

P17 Tempra combined units

■ Dimensions

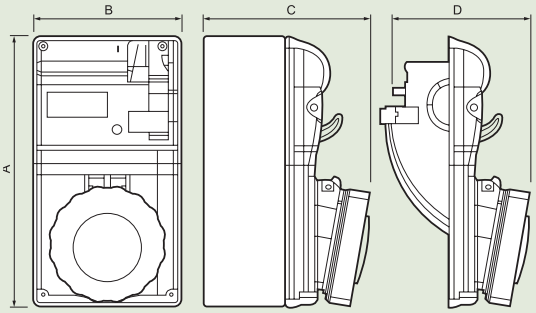
IP 44 according to IEC 60529 and EN 60529
IP 66 according to IEC 60529 and EN 60529
IP 55 according to IEC 60529 and EN 60529
IK 08 according to EN 50102

Interlocked switch sockets with DIN rail



	IP 44 Cat. no	A	B	C	D	IP 66 Cat. no	A	B	C	D
LV 16A										
2P+⏚	0566 40/41	290	125	155	135	0566 60/61	300	125	155	135
LV 32A										
2P+⏚	0566 49	295	125	155	145	0566 69	310	125	155	145
3P+⏚	0572 53	295	125	155	145	0572 73	310	125	155	145
3P+N+⏚	0572 54	295	125	155	145	0572 74	310	125	155	144

Interlocked switch sockets without protection

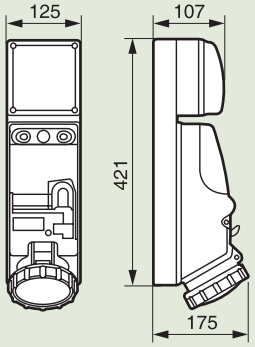


	IP 44 Cat. no	A	B	C	D	IP 55 Cat. no	A	B	C	D
LV 16A										
2P+⏚	0566 00/01 0572 00/01	220	125	127	122	0566 20/21 0572 20/21	220	125	133	128
3P+N+⏚	0572 06	220	125	130	125	0572 26	220	125	135	130
LV 32A										
2P+⏚	0566 09 0572 09	220	125	138	133	0566 29 0572 29	220	125	143	138
3P+⏚	0566 13 0572 13	220	125	138	133	0566 33 0572 33	220	125	143	138
3P+N+⏚	0566 14 0572 14	220	125	139	134	0566 34 0572 34	220	125	144	139

IP 66 - LV 63A

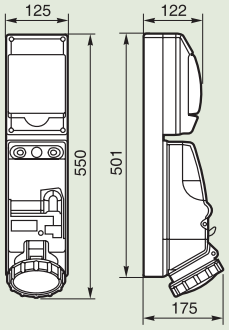
Without protection

Cat.Nos 0572 98 and 0589 10



With empty Din rail -

Cat.Nos 0589 18 and 0572 99



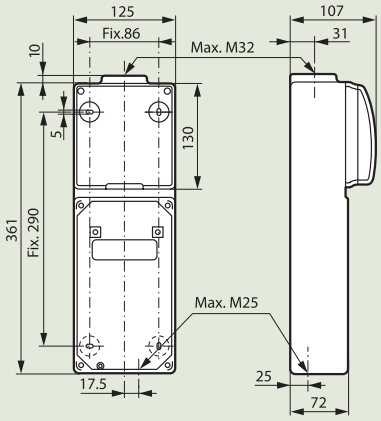
All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

P 17 Tempra combined units
to be composed

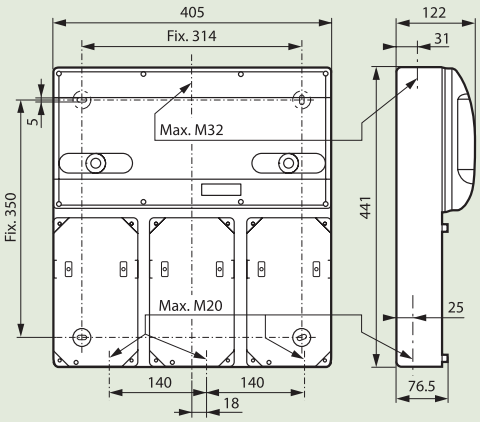
■ Dimensions

Bases

Cat.No 0589 38



Cat.No 0577 06



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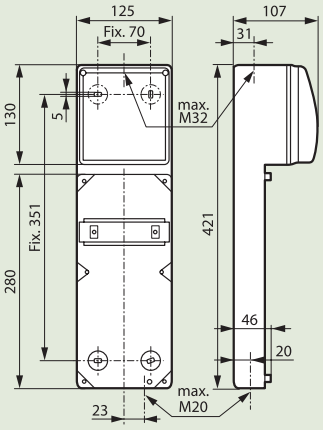
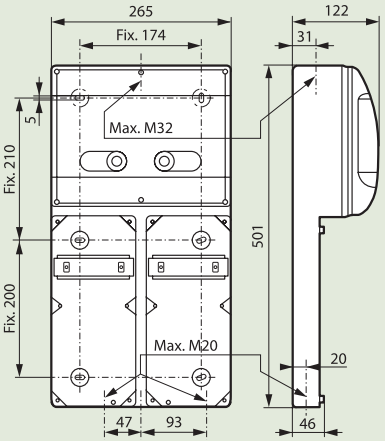
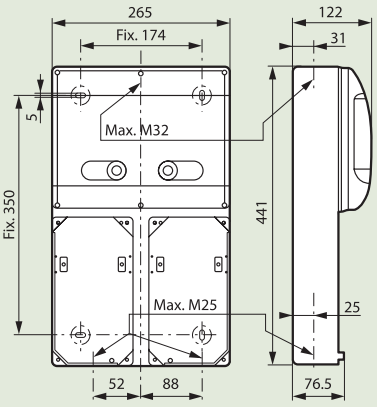


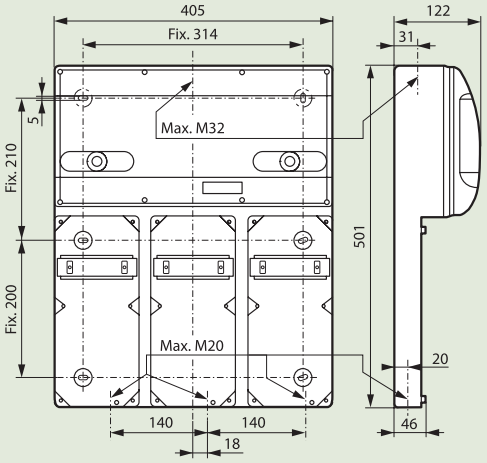
Cat.No 0577 03



Cat.No 0577 05



Cat.No 0577 04

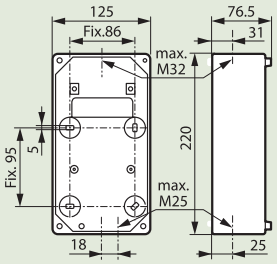


All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

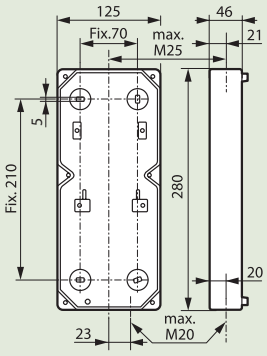
P 17 Tempra combined units
to be composed

Surface mounting boxes

Cat.No 0577 10

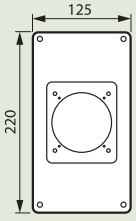


Cat.No 0577 11

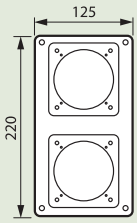


Faceplates

Cat.No 0577 12



Cat.No 0577 13



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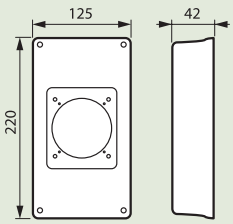

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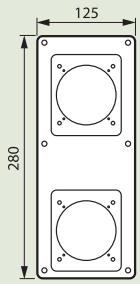

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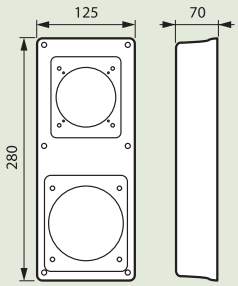
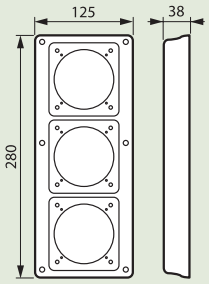
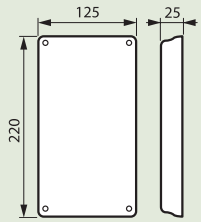


Cat.No 0577 14



Cat.No 0577 15



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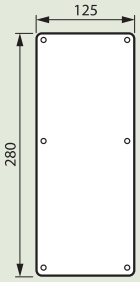
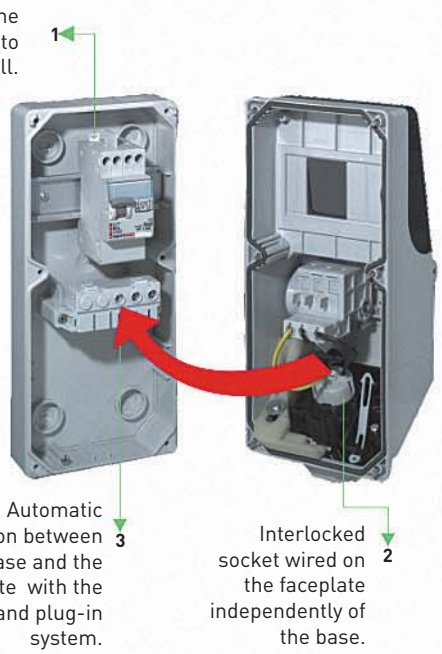
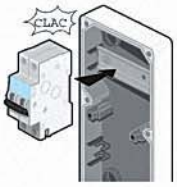


P17 Tempra Combined Units

closed...
it's connected!



Transparent window
For quick viewing of protection devices.



Din rail
For full access to all Legrand Lexic modular functions upto 5 module.

Double interlock
Switch cannot be turned on unless a plug has been inserted (1st safety position). Plug cannot be removed when the swith is on (2nd safety position).

Bold cat. nos. are products normally **available** with **Legrand (India) Stockists. Cat nos. that are not bold - delivery wihthin 4 weeks** from the **date of order. Bold packing quantity** is our **mandatory packing. Orders** to be placed by **Legrand (India) Stockist in multiples of the same.**

All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

■ Dimensions

Prisinter - panel mounting sockets - LV 16-32-63 A

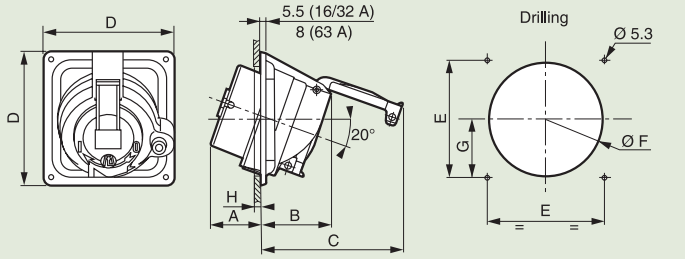
According to IEC/EN 605 29

16-32 A • IP 44 connected with an IP 44 plug
• IP 55 connected with an IP 66/67-55 Hypra plug
• IP 55 cover closed

63 A • IP 44 connected with any plug
• IP 55 cover closed

Dust resistance IP may be increased by rubber push-button (on request)
Icc 10 kA according to CEI 60309-1
IK according to IEC 62262: Plastic = IK 09
Padlockable
Screws in stainless steel - Nickel-plated contacts
In case of extension, use a mobile Prisinter available on request

Max terminal connection:
• 16 A: 1 x 4 mm² or 2 x 2.5 mm² rigid
• 32 A: 1 x 10 mm² or 2 x 6 mm² rigid
• 63 A: 1 x 25 mm² rigid



	Cat. no	Material	Weight (kg)	A	B	C	D	E	F min	F max	G	H max
16A												
2P+⏚	0520 02	Plastic	0.42	46	70	132	115	100	92	98	46	6 to 10
32A												
2P+⏚	0527 02	Plastic	0.57	54	77	153	143	125	115	122	58.5	10 to 20
3P+⏚	0529 03	Plastic	0.61	54	77	153	143	125	115	122	58.5	10 to 20
3P+N+⏚	0529 04	Plastic	0.65	55	79	169	143	125	119	122	58.5	9 to 13
63A												
3P+N+⏚	0536 04	Plastic	0.98	55	99	205	143	125	120	122	59.5	10 to 20

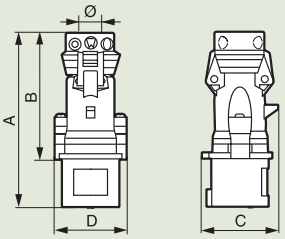
The plug cannot be unlocked until the power has been disconnected

refer p.345

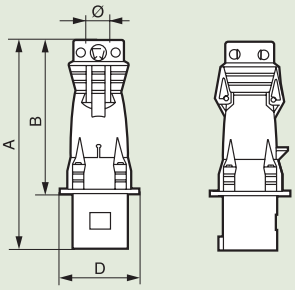
External screws in stainless steel - Nickel-plated contacts
Max terminal connection:
• ELV 16/32 A: 1 x 10 mm² flexible
• LV 16 A: 1 x 2.5 mm² flexible
• LV 32 A: 1 x 6 mm² flexible
• LV 63 A: 1 x 16 mm² flexible
• LV 125 A: 1 x 50 mm² flexible

■ Straight plugs IP 44

ELV and LV 16/32 A



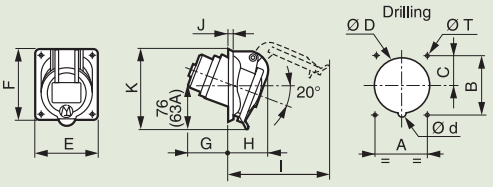
LV 63 A



	Cat. no.	Material	Weight (kg)	Dimensions A	B	C	D	Ø clamping and grip
LV - 16 A								
2 P + ⏚	0520 42	Plastic	0.150	135	100	57	55	8 to 15
3 P + ⏚	0522 43	Plastic	0.175	139	103	65	60	8 to 15
3 P + N + ⏚	0522 44	Plastic	0.210	154	118	73	66	10 to 18
LV - 32 A								
2 P + ⏚	0527 42	Plastic	0.260	164	119	78	70,5	10 to 18
3 P + ⏚	0529 43	Plastic	0.260	164	119	78	70,5	12 to 22
3 P + N + ⏚	0529 44	Plastic	0.300	170	125	86	77	12 to 22
LV - 63 A								
2 P + ⏚	0536 42	Plastic	0.580	255	188.5	-	102	16 to 26
3 P + ⏚	0538 43	Plastic	0.640	255	188.5	-	102	18.5 to 29
3 P + N + ⏚	0538 44	Plastic	0.700	255	188.5	-	102	20.5 to 32

IP 44 - ELV 16 and 32 A - LV 16 to 63 A

IK 09 (plastic), IK 10 (metal)
External screws in stainless steel - Nickel-plated contacts
Max terminal connection:
• ELV: 1 x 10 mm² rigid
• LV 16 A: 1 x 4 mm² rigid
• LV 32 A: 1 x 10 mm² rigid
• LV 63 A: 1 x 25 mm² rigid



	Cat. no.	Material	Weight (kg)	Drilling A	B	C	øD	ød	øT	Dimensions E	F	G	H	I	J	K
LV - 16 A																
2 P + ⏚	0520 22	Plastic	0.110	52	60	28	55	14.5	4.2	64	72	41	40	94	5.5	78.5
3 P + ⏚	0522 23	Plastic	0.140	60	70	31	63.5	14.5	5.2	74	84	44	40	98	5.5	88
3 P + N + ⏚	0522 24	Plastic	0.165	60	70	33	70.6	-	5.2	80	84	44	44	110	5.5	93
LV - 63 A																
2 P + ⏚	0536 22	Plastic	0.600	77	85	-	92	-	6.5	106	106	98	70	160	6	129
3 P + ⏚	0538 23	Plastic	0.640	77	85	-	92	-	6.5	106	106	98	70	160	6	129
3 P + N + ⏚	0538 24	Plastic	0.700	77	85	-	92	-	6.5	106	106	98	70	160	6	129

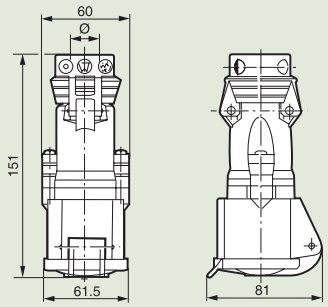
All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

Plugs and Sockets enclosures

from 10 A to 63 A

IP 44 – LV 16 A

Mobile sockets



	Cat. no	Weight (kg)	Ø Clamping & grip
3P+⏚	0522 83	0.2	8 to 15

Notes :

- External screw in stainless steel
- Nickel plated contact

Lexic

Surface mounting SPN enclosure

FP RCBO enclosure

All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

Metra plug & socket
selection chart

- **Metal clad plugs and sockets with scrapping earth conforming to IS 8804**
- **Body made of cast aluminium alloy duly powder coated**
- **Plug sleeves and protection caps made of high grade plastic**
- **Colour coding : Blue for 250V~ and Red for 440V~**

			Colour	Plugs	Sockets
250 V ~	10 A	2 P + ⏚	Blue	6500 02 Pack - 1/**10**/100	6500 03 Pack - 1/**10**/100
			Ivory	**6500 22** Pack - 1/**10**/100	**6500 23** Pack - 1/**10**/100
	20 A	2 P + ⏚	Blue	**6500 08** Pack - 1/**10**/100	**6500 09** Pack - 1/**10**/100
			Ivory	**6500 28** Pack - 1/**10**/100	**6500 29** Pack - 1/**10**/100
440 V ~	20 A	3 P + ⏚	Red	6500 10 Pack - 1/**10**/100	6500 11 Pack - 1/**10**/100
	32 A	3 P + ⏚	Red	6500 16 Pack - 1/**10**/100	6500 17 Pack - 1/**10**/100

METRA METALLIC

Salient features of metra metallic plugs and sockets

> Metra metallic plug and socket

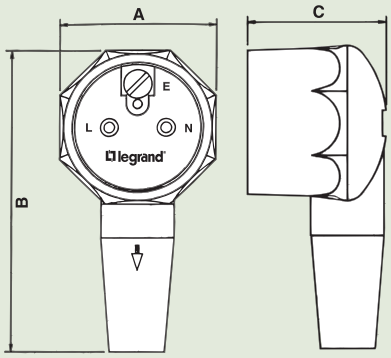
- Standards conform to IS 8804 and to BS 4343.
- The plugs are ivory coloured for superior aesthetics in domestic and commercial application. International voltage colour coding for industry: Blue - 250V and Red - 440V
- The plug sleeve is designed in such a way that it grips the cable and prevents load on the cable ends connected to terminals.
- The octagonal shape of plug top and socket cap provides better grip.
- While plugging, earth connection is made before phase connection. During disconnection, earth connection is broken after phase connection.
- The plastic base for the socket acts as a "Drilling Template" for accurate installation of the socket.

Bold catalogue numbers are products normally available with Legrand (India) stockists.
Cat. nos. that are not bold - delivery within 4 weeks from the date of order.
Bold packing quantity is our mandatory packing. Orders to be placed by Legrand (India) stockists in multiples of the same.

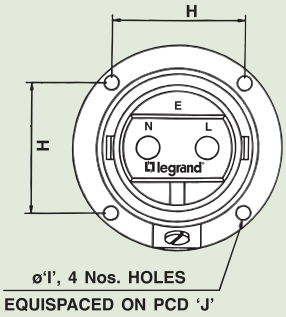
■ Dimensions

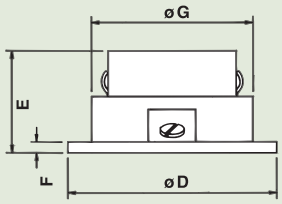
10A/20A 2P+E

Plug

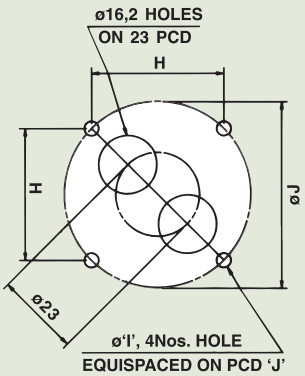


Socket





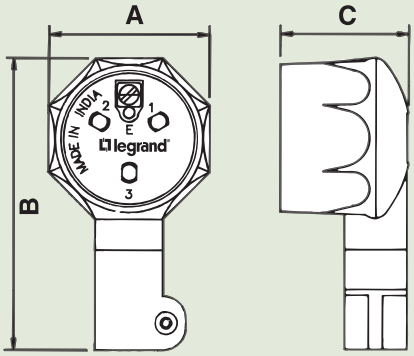
Drilling plan



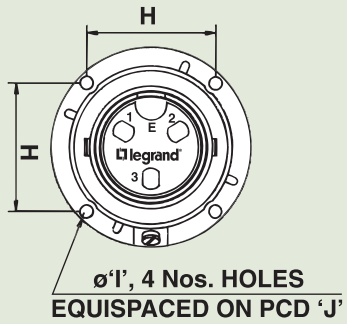
Plug	A	B	C
10 A - 2P+⏚	43	83	38
20 A - 2P+⏚	51	93	46
20 A - 3P+⏚	57.3	103	47
32 A - 3P+⏚	70.1	132.1	74.04

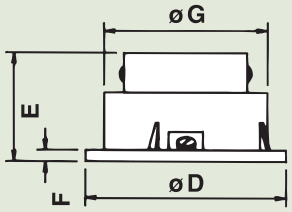
20A/32A 3P+E

Plug

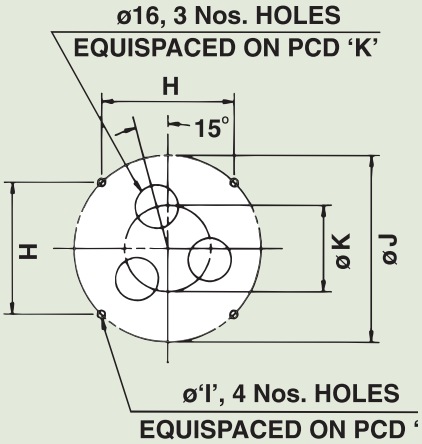


Socket





Drilling plan

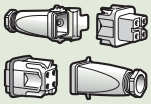


Plug	ØD	E	F	ØG	H	ØI	ØJ	ØK
10 A - 2P+⏚	57	28	3	44	36	4	51	—
20 A - 2P+⏚	69	39	3	52	42	5	60	—
20 A - 3P+⏚	76	41.5	4.5	61.9	48.79	5	69	32
32 A - 3P+⏚	83.8	55.5	4.5	68	53.99	5	76.86	37

All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

Hypra multi-pin connectors

Hypra multi-pin connectors Plug & Sockets



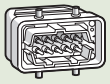
P. 366
multi-pin connectors
kit 10A, 16A, 32A
Plug & Sockets

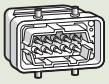
Dimensions

P. 372-375
multi-pin connectors

Technical data

P. 376-377
multi-pin connectors


P. 367
multi-pin connectors
funtion offer
10A Plug & Sockets


P. 367
multi-pin connectors
funtion offer
16 to 32A Plug & Sockets

Hypra multi-pin connectors ....

to meet the need for power and control circuits

Range for different uses.

Side entry plug + flush mounting socket with lock

Side entry plug with lock + flush mounting socket with flap

Flush mounting socket with lock + vertical plug

Side entry socket with lock + vertical plug

Flush mounting socket with lock

Flush mounting socket with flap

Side entry plug with lock

Protection cover

Top entry plug

Flush mounting socket with lock

Vertical plug

Side entry socket

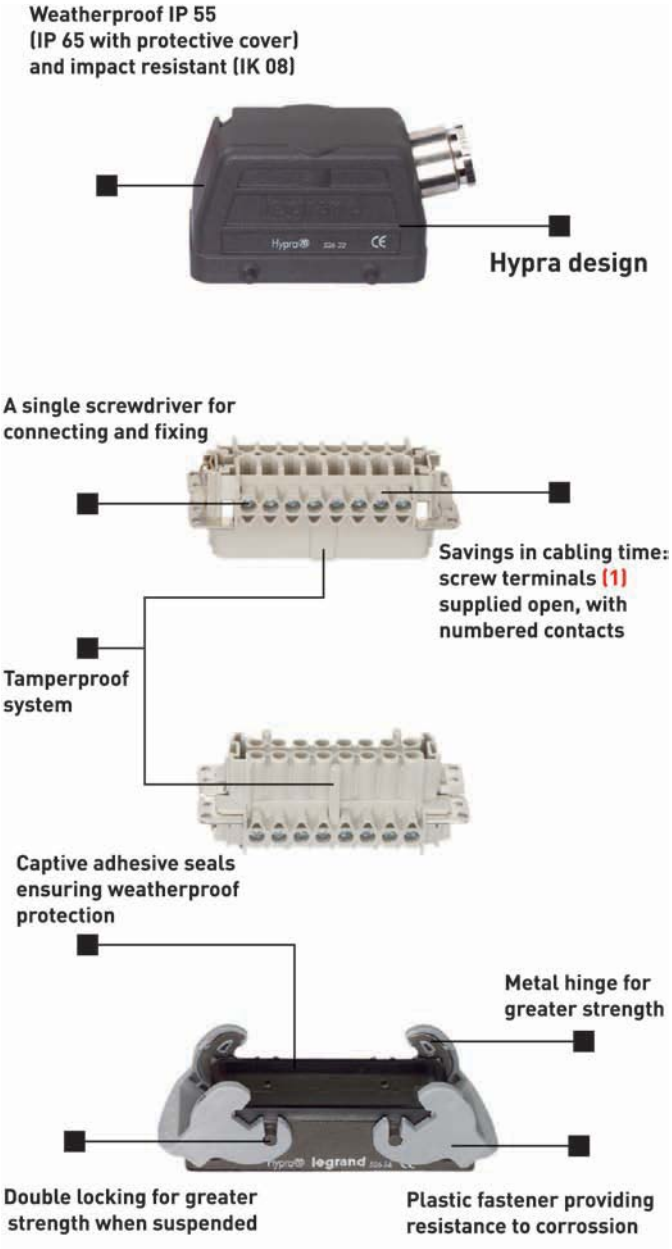
Side entry plug

Vertical hood socket with lock

Protection cover

Foolproofing pins

Total compatibility with the current standard



(1) Also available with spring terminals for automatic connection (complete kits 500V-16 A).

FEATURES

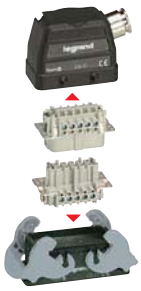
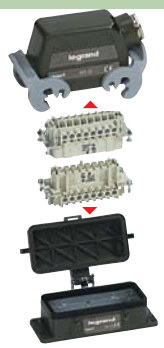
- 10A, 16A & 32 A.
- 250V, 400V & 500 VAC
- Plastic housing for 3P + E and 4P + E
- Metal housing from 3P + E to 48 P + E
- IP 55, IP 65
- IEC 61984, UL, CSA
- Socket - flush & surface mounting
- Plug - top & side entry
- Locking with plastic and metal hinge which gives resistance against corrosion and double locking ensures proper connection

Hypra® multi-pin connectors
10, 16, 32 A

KIT OFFER - 10 A, 250 V & 400 V, PLASTIC AND METAL

			Top entry plug + flush mounting socket with lock		Top entry plug + flush mounting socket (side entry) with lock		Top entry plug + vertical hood socket with lock	
			Plastic	Metal	Plastic	Metal	Plastic	Metal
250 V	10 A	3P+⏚	0526 18	0531 18	0531 20	0531 22	0526 16	0531 16
400 V	10 A	4P+⏚	0526 19	0531 19	0531 21	0531 23	0526 17	0531 17

KIT OFFER-16A, 500V & 32A, 400V-METAL

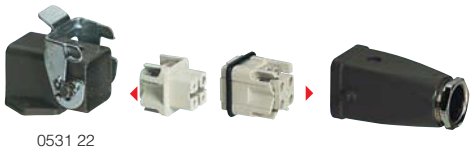
			Top entry plug + flush mounting socket with lock	Side entry plug + flush mounting socket with lock	Side entry plug with lock + flush mounting socket with flap	Side entry plug + flush mounting socket, with lock screwless, clamp connection	Side entry plug + surface mounting socket with lock
400 V	32 A	6P+⏚	0526 15	0526 05	-	-	-
500 V	16 A	6P+⏚	0526 10	0526 00	-	0526 20	0526 06
		10P+⏚	0526 11	0526 01	0531 01	0526 21	0526 07
		16P+⏚	0526 12	0526 02	0531 02	0526 22	0526 08
		24P+⏚	0526 13	0526 03	0531 03	0526 23	0526 09
		32P+⏚	0526 14	0526 04	-	0526 24	-

(1) Double verrouillage de 10P+T a 32P+T

Bold catalogue numbers are products normally available with Legrand (India) stockists.
Cat. nos. that are not bold - delivery within 4 weeks from the date of order.
Bold packing quantity is our mandatory packing. Orders to be placed by Legrand (India) stockists in multiples of the same.

Hypra® multi-pin connectors kit offer-plastic & metal

10A, 16A to 32 A

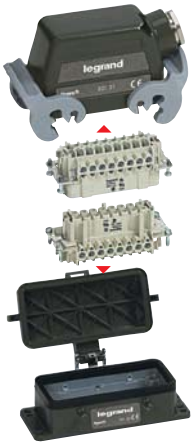


0531 22

0526 16

0531 16

0526 11



0531 02

0526 07

For power and control circuits. Tempreture rating : -40°C to 100°C
Confirms to IEC 61984 Agreements : UL, CSA IK08,
IP55.

Pack	Cat. No	
		Top entry plug + flush mounting socket with lock, plastic
		250 V~ - 10 A
10	0526 18	3P+⏚
		400 V~ - 10 A
10	0526 19	4P+⏚
		Top entry plug + flush mounting socket with lock, metal
		250 V~ - 10 A
8	0531 18	3P+⏚
		400 V~ - 10 A
8	0531 19	4P+⏚
		Top entry plug + flush mounting socket with lock (side entry), plastic
		250 V~ - 10 A
8	0531 20	3P+⏚
		400 V~ - 10 A
8	0531 21	4P+⏚
		Top entry plug + flush mounting socket with lock (side entry), metal
		250 V~ - 10 A
8	0531 22	3P+⏚
		400 V~ - 10 A
8	0531 23	4P+⏚
		Top entry plug + vertical hood socket with lock, plastic
		250 V~ - 10 A
10	0526 16	3P+⏚
		400 V~ - 10 A
10	0526 17	4P+⏚
		Top entry plug + vertical hood socket with lock, metal
		250 V~ - 10 A
8	0531 16	3P+⏚
		400 V~ - 10 A
8	0531 17	4P+⏚
		Accessoires
		Protection
10	0526 69	3P+⏚ / 4P+⏚ (insert socket)

For power and control circuits. Tempreture rating : -40°C to 100°C
Confirms to IEC 61984 Agreements : UL, CSA IK08,
IP65, Unloosable sealed gasket.
Double locking system

Pack	Cat. No	
		Top entry plug + flush mounting socket with lock, metal
		400 V~ - 32 A
2	0526 15	6P+⏚
		500 V~ - 16 A
3	0526 10	6P+⏚
3	0526 11	10P+⏚
3	0526 12	16P+⏚
3	0526 13	24P+⏚
2	0526 14	32P+⏚
		Side entry plug + flush mounting socket with lock, metal
		400 V~ - 32 A
2	0526 05	6P+⏚
		500 V~ - 16 A
3	0526 00	6P+⏚
3	0526 01	10P+⏚
3	0526 02	16P+⏚
3	0526 03	24P+⏚
2	0526 04	32P+⏚
		Side entry plug with lock + flush mounting socket with flap, metal
		500 V~ - 16 A
3	0531 01	10P+⏚
3	0531 02	16P+⏚
3	0531 03	24P+⏚
		Side entry plug and flush mounting socket with lock, screwless clamp connection, metal
		500 V~ - 16 A
3	0526 20	6P+⏚
3	0526 21	10P+⏚
3	0526 22	16P+⏚
3	0526 23	24P+⏚
2	0526 24	32P+⏚
		Side entry plug + surface mounting socket with lock, metal
		500 V~ - 16 A
3	0526 06	6P+⏚
3	0526 07	10P+⏚
3	0526 08	16P+⏚
3	0526 09	24P+⏚

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Cat. nos. that are not bold - delivery within 4 weeks from the date of order.
Bold packing quantity is our mandatory packing. Orders to be placed by Legrand (India) stockists in multiples of the same.

Hypra® multi-pin connectors plastic and metal
10, 16 to 32 A

FUNTION OFFER - 10 A, 250 V TO 400 V, PLASTIC & METAL

Technical data (p.376-377)

			Flush mounting, socket with lock		Flush mounting, socket with lock (side entry)		Top entry plug	
			Plastic	Metal	Plastic	Metal	Plastic	Metal
250 V	10 A	3P+⏚	0526 50	0531 50	0531 06	0531 08	0526 40	0531 40
400 V	10 A	4P+⏚	0526 51	0531 51	0531 07	0531 09	0526 41	0531 41

FUNTION OFFER-16 A, 500 V & 32 A - 400 V, METAL

Technical data (p.376-377)

			Flush mounting socket with lock	Flush mounting socket with lock Automatic screwless connections (spring) earth at left	Flush mounting socket with lock Automatic screwless connections (spring) earth at right	Flush mounting socket with flap
400 V	32 A	6P+⏚	0526 57	-	-	-
500 V	16 A	6P+⏚	0526 52	0531 80	0531 84	-
		10P+⏚	0526 53	0531 81	0531 85	0531 53
		16P+⏚	0526 54	0531 82	0531 86	0531 54
		24P+⏚	0526 55	0531 83	0531 87	0531 55
		32P+⏚	0526 56	-	-	-
		48P+⏚	0526 58	-	-	0531 58

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Bold packing quantity is our mandatory packing. Orders to be placed by Legrand (India) stockists in multiples of the same.

	Side entry plug		Vertical hood, socket with lock		Accessories
	Plastic	Metal	Plastic	Metal	Insert socket
	0531 10	0531 12	0526 26	0531 26	0526 69
	0531 11	0531 13	0526 27	0531 27	0526 69

	Surface mounting socket with lock	Surface mounting socket with lock & two cable entry	Surface mounting socket with flap & two cable entry	Top entry plug	Top entry socket with lock	Side entry plug	Side entry plug with lock	Protection cover
	-	-	-	0526 47	-	0526 35	-	0526 76
	0526 60	-	-	0526 42	-	0526 30	-	0526 70
	0526 61	0531 71	0531 61	0526 43	0531 43	0526 31	0531 31	0526 71
	0526 62	0531 72	0531 62	0526 44	0531 44	0526 32	0531 32	0526 76
	0526 63	0531 73	0531 63	0526 45	0531 45	0526 33	0531 33	0526 73
	-	-	-	0526 46	-	0526 34	-	0526 74
	0526 65	-	0531 65	0526 48	-	0526 36	-	-

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Hypra® multi-pin connectors
10A function offer - plastic and metal

0526 50 + 0526 69

0531 50

0531 08

0526 40

0531 40

0531 12

Dimension (p. 372-375)

For power and control circuits. Temperature rating : 40°C to 100°C
Confirms to IEC 61984 Agreements : UL, CSA IK08,
IP55.

Pack	Cat. No	Flush mounting socket with lock, plastic
		250 V~ - 10 A
10	0526 50	3P+⏚
		400 V~ - 10 A
10	0526 51	4P+⏚

Pack	Cat. No	Flush mounting, socket with lock, metal
		250 V~ - 10 A
10	0531 50	3P+⏚
		400 V~ - 10 A
10	0531 51	4P+⏚

Pack	Cat. No	Flush mounting socket with lock (side entry) plastic
		250 V~ - 10 A
10	0531 06	3P+⏚
		400 V~ - 10 A
10	0531 07	4P+⏚

Pack	Cat. No	Flush mounting socket with lock (side entry) metal
		250 V~ - 10 A
10	0531 08	3P+⏚
		400 V~ - 10 A
10	0531 09	4P+⏚

Pack	Cat. No	Top entry plug, plastic
		250 V~ - 10 A
10	0526 40	3P+⏚
		400 V~ - 10 A
10	0526 41	4P+⏚

Pack	Cat. No	Top entry plug, metal
		250 V~ - 10 A
10	0531 40	3P+⏚
		400 V~ - 10 A
10	0531 41	4P+⏚

Pack	Cat. No	Side entry plug, plastic
		250 V~ - 10 A
10	0531 10	3P+⏚
		400 V~ - 10 A
10	0531 11	4P+⏚

Pack	Cat. No	Side entry plug, metal
		250 V~ - 10 A
10	0531 12	3P+⏚
		400 V~ - 10 A
10	0531 13	4P+⏚

Pack	Cat. No	Vertical hood socket with lock plastic
		250 V~ - 10 A
10	0526 26	3P+⏚
		400 V~ - 10 A
10	0526 27	4P+⏚

Pack	Cat. No	Vertical hood socket with lock metal
		250 V~ - 10 A
10	0531 26	3P+⏚
		400 V~ - 10 A
10	0531 27	4P+⏚

Pack	Cat. No	Accessories
		Protection cover
10	0526 69	3P+⏚ / 4P+⏚ (insert socket)

Bold catalogue numbers are products normally available with Legrand (India) stockists.
Cat. nos. that are not bold - delivery within 4 weeks from the date of order.
Bold packing quantity is our mandatory packing. Orders to be placed by Legrand (India) stockists in multiples of the same.

Hypra® multi-pin connectors
16 to 32A function offer - metal

0531 54

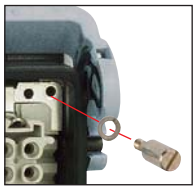
0531 81
Automatic connection.

0526 58

0526 61

0531 62

0526 43


Exemple de détrompage
avec plot réf. 526 80

0526 71

Dimension (p. 372-375)

For power and control circuits. Tempreture rating : 40°C to 100°C
Confirms to IEC 61984 Agreements : UL, CSA IK08,
IP55, IP65 (with cover) Unloosable sealed gasket.
Double locking system

Flush mounting socket

Pack	Cat. No		
	With lock	With flap	**400 V~ - 32 A**
4	0526 57		6P+⏚
			500 V~ - 16 A
5	0526 52		6P+⏚
5	0526 53	0531 53	10P+⏚
5	0526 54	0531 54	16P+⏚
5	0526 55	0531 55	24P+⏚
4	0526 56		32P+⏚
2	0526 58	0531 58	48P+⏚

Flush mounting socket with lock. Automatic screwless connections, (spring), earth at left

Pack	Cat. No	
		500 V~ - 16 A
3	0531 80	6P+⏚
3	0531 81	10P+⏚
2	0531 82	16P+⏚
2	0531 83	24P+⏚

Flush mounting socket with lock. Automatic screwless connections (spring) earth at right

Pack	Cat. No	
		500 V~ - 16 A
3	0531 84	6P+⏚
3	0531 85	10P+⏚
2	0531 86	16P+⏚
2	0531 87	24P+⏚

Surface mounting socket

Pack	Cat. No		
	With lock	With flap	**500 V~ - 16 A**
5	0526 60		6P+⏚
5	0526 61	0531 61	10P+⏚
5	0526 62	0531 62	16P+⏚
5	0526 63	0531 63	24P+⏚
2	0526 65	0531 65	48P+⏚

Surface mounting socket with lock with two cable entry

Pack	Cat. No	
		500 V~ - 16 A
4	0531 71	10P+⏚
4	0531 72	16P+⏚
4	0531 73	24P+⏚

Top entry plug

Pack	Cat. No	
		400 V~ - 32 A
4	0526 47	6P+⏚
		500 V~ - 16 A
5	0526 42	6P+⏚
5	0526 43	10P+⏚
5	0526 44	16P+⏚
5	0526 45	24P+⏚
4	0526 46	32P+⏚
2	0526 48	48P+⏚

Top entry socket with lock

Pack	Cat. No	
		500 V~ - 16 A
5	0531 43	10P+⏚
5	0531 44	16P+⏚
5	0531 45	24P+⏚

Side entry plug

Pack	Cat. No		
	without lock	with lock	**400 V~ - 32 A**
4	0526 35		6P+⏚
			500 V~ - 16 A
5	0526 30		6P+⏚
5	0526 31	0531 31	10P+⏚
5	0526 32	0531 32	16P+⏚
5	0526 33	0531 33	24P+⏚
4	0526 34		32P+⏚
2	0526 36		48P+⏚

Accessories

Pack	Cat. No	
		Protection cover plastic
5	0526 70	6P+⏚
5	0526 71	10P+⏚
5	0526 76	16P+⏚ / 6P+⏚ (32 A)
5	0526 73	24P+⏚
2	0526 74	32P+⏚
		Foolproofing pins
		Supplied in bags of 16
10	0526 80	Enables the differentiation of juxtaposed bases thanks to serveral possible combinations

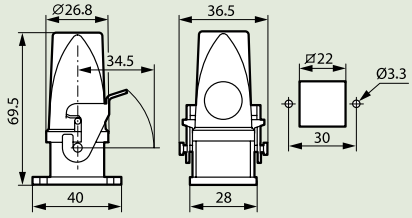
Hypra® multi-pin connectors plastic, metal

10, 16, 32A

■ DIMENSIONS

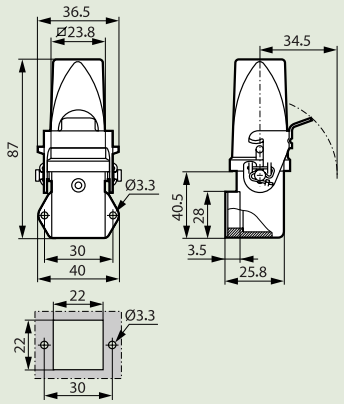
Top entry plug + flush mounting socket with lock

Cat. nos. 0526 18/19 & 531 18/19



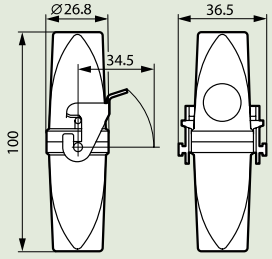
Top entry plug + flush mounting socket with lock (side entry)

Cat. nos. 0531 20/21/22/23



Top entry plug + vertical hood sockets with lock

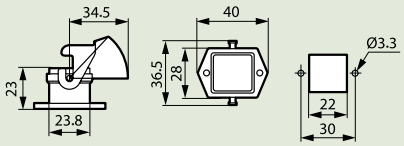
Cat. nos. 0526 16/17 to 531 16/17



Flush mounting socket with lock

250 V - 10 A - 3P+⏚ and 400 V - 10 A - 4P+⏚ plastic

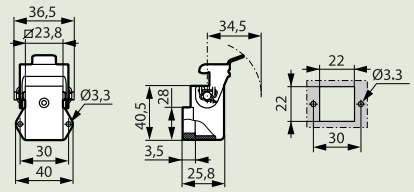
Cat.nos. 0526 50/51 **and metal** Cat.nos. 0531 50/51



Flush mounting socket with lock (side entry)

250 V - 10 A - 3P+⏚ and 400 V - 10 A - 4P+⏚ plastic

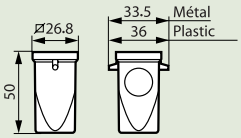
Cat.nos. 0531 06/07 **and metal** Cat.nos. 0531 08/09



Top entry plug

250 V - 10 A - 3P+⏚ and 400 V - 10 A - 4P+⏚

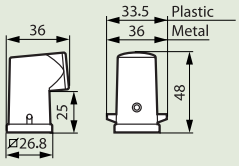
Cat.nos. 0526 40/41 and 0531 40/41



Side entry plug

250 V - 10 A - 3P+⏚ and 400 V - 10 A - 4P+⏚

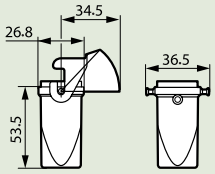
Cat. nos. 0531 10/11/12/13



Vertical hood socket with lock

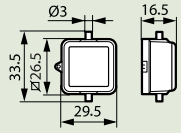
250 V - 10 A - 3P+⏚ and 400 V - 10 A - 4P+⏚

Cat. nos. 0526 26/27 and Cat. nos. 0531 26/27



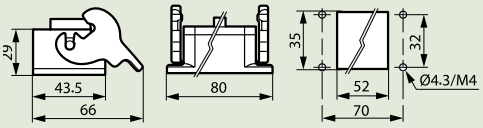
All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

Protection on cover 3P+⏚ and 4P+⏚
Cat. nos. 0526 69

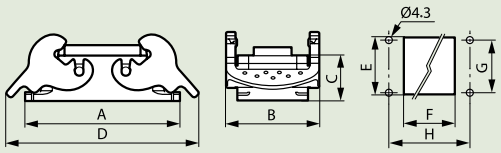


Flush mounting socket with lock

500 V - 16 A - 6P+⏚
Cat.nos. 0526 52

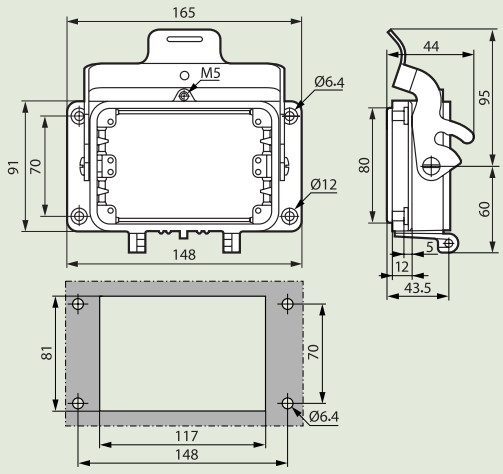


400 V - 32 A - 6P+⏚ Cat.nos. 0526 57
and 500 V - 16 A - 10 to 32P+⏚
Cat.nos. 0526 53/54/55/56



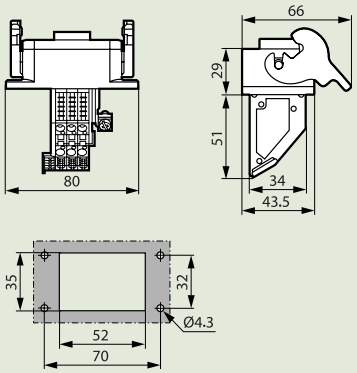
Intensity	Cat. nos.	No. of poles	A	B	C	D	E	F	G	H	Ø
16 A	0526 53	10P+T	93	43	28	115	35	65	32	83	4,3/M4
	0526 54	16P+T	113	43	28	137	35	85,5	32	103	4,3/M4
	0526 55	24P+T	140	43	28	164	35	112	32	130	4,3/M4
	0526 56	32P+T	124	84	35	158	71	86	65	110	4,3/M4
32 A	0526 57	6P+T	113	43	28	137	35	85,5	32	103	5,5/M5

500 V - 16 A - 48P+⏚
Cat.nos. 0526 58

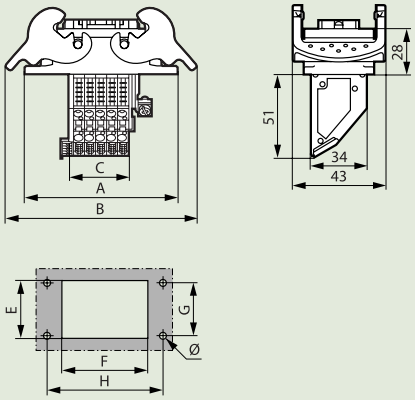


Flush mounting socket with lock
Automatic screwless connection (springs)

500 V - 16 A - 6P+⏚
Cat.nos. 0531 80/84/88/92



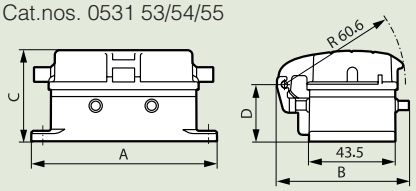
500 V - 16 A - 10 to 24P+⏚
Cat.nos. 0531 81/82/83/85/86/87



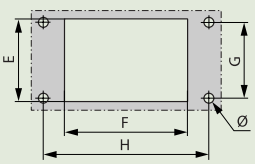
Intensity	No of poles	A	B	C	E	F	G	H	Ø
16 A	10P+T	93	115	36,5	35	65	32	83	4,3/M4
	16P+T	113	137	56,6	35	85,5	32	103	4,3/M4
	24P+T	140	164	83,4	35	112	32	130	4,3/M4

Flush mounting

500 V - 16 A - 10 to 24P+⏚
Cat.nos. 0531 53/54/55



Découpe pour fixation



Intensity	No of poles	A	B	C	D	E	F	G	H	Ø
16 A	10P+T	93	67	46	29	35	65	32	83	4,5/M4
	16P+T	113	66	46	29	35	85,5	32	103	4,5/M4
	24P+T	140	67	46	29	35	112	32	130	4,5/M4

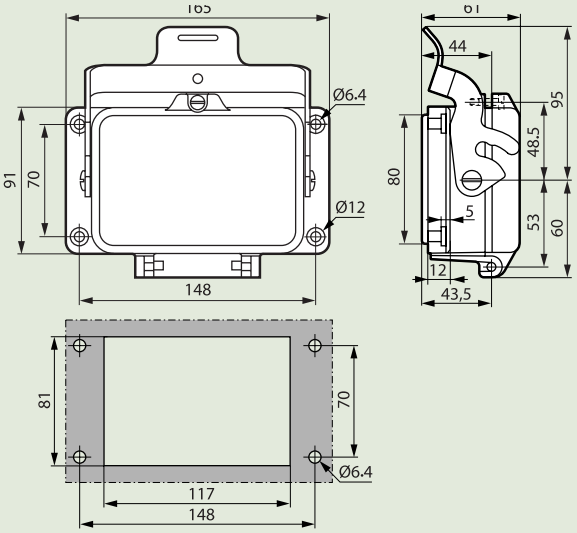
All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

Hypra® multi-pin connectors plastic, metal

10, 16 to 32A

500 V - 16 A - 48P+⏚

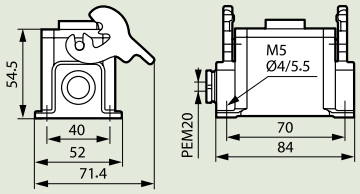
Cat.nos. 0531 58



Surface mounting socket with lock

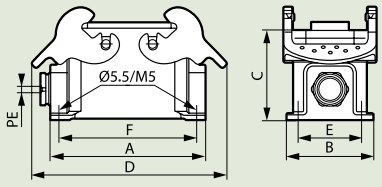
500 V - 16 A - 6P+⏚

Cat.nos. 0526 60



500 V - 16 A - 10 to 24P+⏚

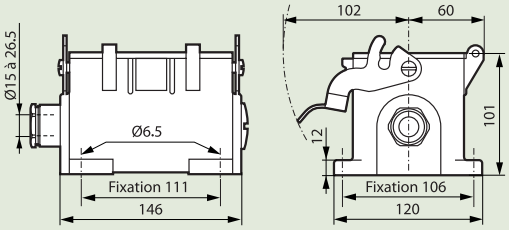
Cat.nos. 0526 61/62/63



Intensity	Cat. nos.	No of poles	A	B	C	D	E	F	PE	Ø
16 A	0526 61	10P+T	94	52	54,5	117	40	82	M20	3-14,5
	0526 62	16P+T	117	57	56,5	138	45	105	M25	7,5-19
	0526 63	24P+T	144	57	56,5	164	45	132	M25	7,5-19

500 V - 16 A - 48P+⏚

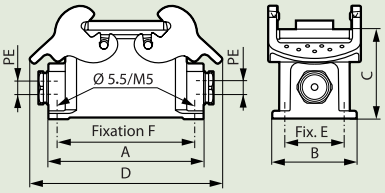
Cat.nos. 0526 65



Surface mounting socket with lock & two cable entries.

500 V - 16 A - 10 to 24P+⏚

Cat.nos. 0531 71/72/73

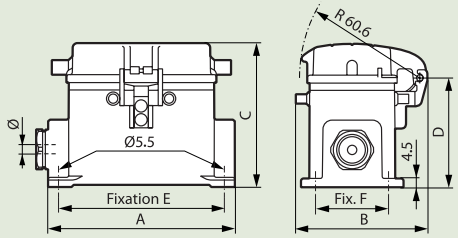


Intensity	No of poles	A	B	C	D	E	F	PE	Ø
16 A	10P+T	94	52	54.5	117	40	82	M20	3-14,5
	16P+T	117	57	56,5	138	45	105	M25	7,5-19
	24P+T	144	57	56,5	164	45	132	M25	7,5-19

Surface mounting socket with flap & two cable entries.

500 V - 16 A - 10 to 24P+⏚

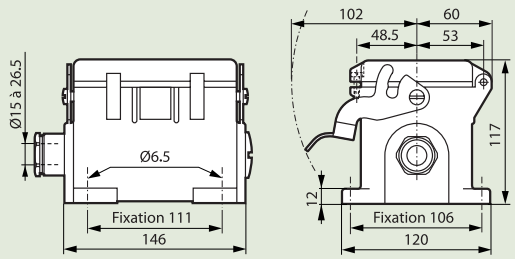
Cat.nos. 0531 61/62/63



Intensity	No of poles	A	B	C	D	E	F	PE	Ø
16 A	10P+T	94	67	72	55,6	82	40	M20	3-14,5
	16P+T	117	67	74	57,6	105	45	M25	7,5-19
	24P+T	144	67	74	57,6	132	45	M25	7,5-19

500 V - 16 A - 48P+⏚

Cat.nos. 0531 65

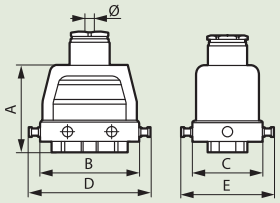


All dimensions are in mm
1 inch = 25.4mm
Accuracy of dimensions = ± 2mm

Top entry plug

400 V - 32 A - 6P+⏚ and 500 V - 16 A - 6P+⏚ to 48P+⏚

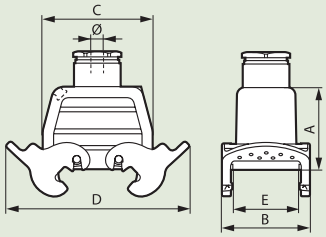
Cat. nos. 0526 42 to 526 48



Intensity	Cat. nos.	No of poles	A	B	C	D	E	PE	Ø
16 A	0526 42	6P+T	47,5	60	43	73,5	-	M20	3-14,5
	0526 43	10P+T	53	73	43	-	56	M20	3-14,5
	0526 44	16P+T	60	93,5	43	-	56	M25	7,5-19
	0526 45	24P+T	70	120	43	-	56	M25	7,5-19
	0526 46	32P+T	94	93,5	82,5	-	97,5	M32	15-26,5
	0526 48	48P+T	107	132	90	146	-	M32	15-26,5
32 A	0526 47	6P+T	60	93,5	43	-	56	M25	7,5-19

Top entry socket with lock

500 V - 16 A - 10P+⏚ to 24P+⏚ Cat. nos. 0531 43/44/45



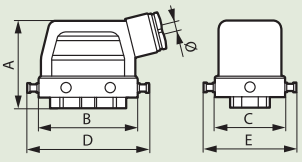
Intensity	No of poles	A	B	C	D	E	PE	Ø
16 A	10P+T	53	57,2	73	119	43	M20	3-14,5
	16P+T	60	57,2	93,5	139	43	M25	7,5-19
	24P+T	70	57,2	120	166	43	M25	7,5-19

Side entry plug

400 V - 32 A Cat. nos. 0526 35

- 6P+⏚ and 500 V - 16 A - 6P+⏚ to 32P+⏚

Cat. nos. 0526 30/31/32/33/34/36

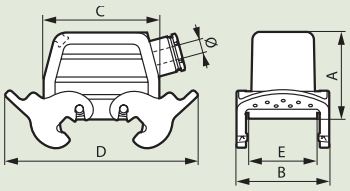


Intensity	Cat. nos.	No of poles	A	B	C	D	E	PE	Ø
16 A	0526 30	6P+T	47,5	60	43	73,5	-	M20	3-14,5
	0526 31	10P+T	53	73	43	-	56	M20	3-14,5
	0526 32	16P+T	60	93,5	43	-	56	M25	7,5-19
	0526 33	24P+T	70	120	43	-	56	M25	7,5-19
	0526 34	32P+T	94	93,5	82,5	-	97,5	M32	15-26,5
	0526 36	48P+T	107	132	90	146	-	M32	15-26,5
32 A	0526 35	6P+T	60	93,5	43	-	56	M25	7,5-19

Side entry plug with lock

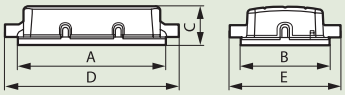
500 V - 16 A - 10P+⏚ to 24P+⏚

Cat. nos. 0531 31/32/33

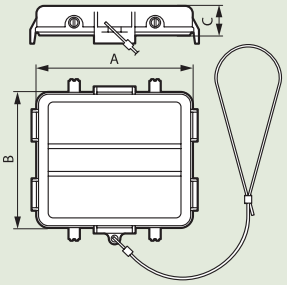


Intensity	No of poles	A	B	C	D	E	PE	Ø
16 A	10P+T	53	56	73	119	43	M20	3-14,5
	16P+T	60	56,4	93,5	139	43	M25	7,5-19
	24P+T	70	56,4	120	166	43	M25	7,5-19

6P+⏚ to 32P+⏚ Cat. nos. 0526 70/71/73/74/76

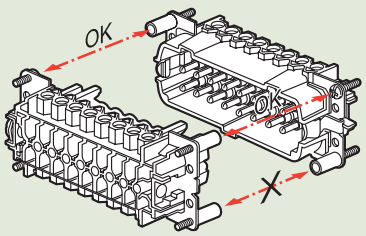


Intensity	Cat. nos.	No of poles	A	B	C	D	E
16 A	0526 70	6P+T	62,5	45,5	20	75	-
	0526 71	10P+T	75,5	45,5	20	-	57,2
	0526 76	16P+T	96	45,5	20	-	57,2
	0526 73	24P+T	122,5	45,5	20	-	57,2
32 A	0526 76	6P+T	96	45,5	20	-	57,2

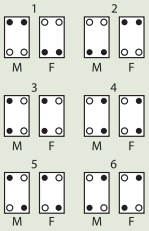


Intensity	Cat. nos.	No of poles	A	B	C
16 A	0526 74	32P+T	93,5	82,5	23

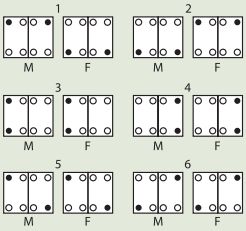
Foolproofing pis



3, 4, 6, 16, 24 poles/poles



32 poles/poles



● Coding pins
○ Fixing screws

M Male connector part
F Female connector part

■ Defination

The main function of Hypra multi-pins connectors is to answer the connection needs of power and control circuits.

- All types of industry (carmakers,steel,etc.)
- Machine tool industry
- Industrial automation
- Information controls and transport,signalling

These products provide for various uses that can be combined or not on the same connector :

- Provision of low-intensity electric current (up to 32A)
- Control of remote controls and PLCs.
- Transmission of data to control lights and indicators
- Star/delta motor starting for three-phase asynchronous motors that enables machines to be connected to 230V (delta) and 380V (star)
- Three-phase motor polarity change (e.g.:change ofspeed for Dahlander type two-speed motors,change in direction of rotation) These products are used on industrial equipment and secondarily on commercial equipment.This equipment is usually fixed,except in the case of three-phase motors.Type of equipment :

Type of equipment : injection presses, lifts, escalators and elevators, hoists, overhead cranes, automated lines, industrial robots, packaging machines, sound studios, building illumination, three-phase asynchronous electric motors, automation cabinets

- Full compatibility with existing equipment
- Available in complete kit (male part + female part) it's possible to reserve the insert in the metal or plastic bodies
- Available by function (male part or female part)
- Spare parts on special request

■ Use

Functionalities

Bulkhead-mounting housing for cabinet mounting
Surface-mounting housing for offset mounting
Side hood :easy installation in reduced space
Top hood :for suspended use (e.g.:overhead crane)

Current and Voltage

10,16A and 32A
250V in 3P+E
400V in 10A 4P+E and 32A 6P+E
500V for all other polarities

Polarity

3P+E and 4P+E in 10A
6P+E in 16A and 32A
from 10P+E to 48P+E in 16A

Locking

Single locking
- For products 3P+E,4P+E,6P+E (16A) and 48P+E.

Double locking
- For products 32A of 6P+E and 16A from 10P+E to 32P+E.

Connection/disconnection cycles

Rated current	Connection	Connection cycles
16 A	Screw	200
16 A	Automatic (spring)	500
32 A	Screw	200
10 A	Screw	3-pole 50
		4-pole 400

Breaking Capacities

There is no breaking capacity requirement in IEC 61 984.
Connectors must not be connected or disconnected on load.

Cable enties

The cable entries of hoods and housings have metric thread.

Top hood

16A 6P+E to 10P+E = M20
16A 16P+E to 24P+E = M25
16A 32P+E and 48P+E = M32
32A 6P+E = M25

Side hood

16A 6P+E to 10P+E = M20
16A 16P+E to 24P+E = M25
16A 32P+E = M32
32A 6P+E = M25

Surface-mounting housing

16A 6P+E to 10P+E = M20
16A 16P+E to 24P+E = M25
16A 48P+E = M32

■ Connection

- Increasing numbering of contacts marking on both sides
- Fool proofing system by insert shape
- Power screwdrivers can be used thanks to the screwdriver guide

Screw connection

- Captives screws
- Terminals supplied open

10A :0.5 – 2.5 mm (22-12 AWG) – 4 mm stripping
16A :0.5 – 2.5mm (20-12 AWG) – 7 mm stripping
32A :2.5-6mm (14-8 AWG) – 10 mm stripping

Spring connection

- For the complete kit (flush-mounting base + side output cover) in 16A

From 6P + E to 24P + E
16A :0.14 – 2.5mm (26-12 AWG) – 7 mm stripping

NOTE :

The earth conductors must have a cross-section at least equivalent to the largest cross-section of the phase conductors

- For flush-mounting base with terminal block

functions16A :0.5 – 2.5mm (20-12 AWG) – 9 mm stripping

Conductors

Number of conductors which can be introduced in the screw terminal
10A screw :2 times 0.5 mm up to 2 times 1.5 mm^2
16A screw :2 times 0.5 mm up to 2 times 1.5 mm^2
32A screw :2 times 0.5 mm up to 2 times 4.0 mm^2
16A spring :it is not possible to connect more than one conductor per pole.

■ General Characteristics

The various tests

6.1 Glow wire and Use temperatures

- 850°contact support (inserts)
- 650° enclosure (plastic)
- Use temperature :- 40°C /+100°C

UV Resistance

- No alteration of the material
- Radiation intensity:550 W/m
- Test duration:168 hours
- Infrared and ultra-violet filter in order to get as close to the solar spectrum as possible

Shock withstand voltage and degree of pollution

6 kilovolts

4 kilovolts for 10A products

Degree of pollution : 3

Weatherproofing and IK

10A IP55

16A/32A IP65

- Captive adhesive seals
- The covers and bases are IK 08.

Material of components
ROHS compliance

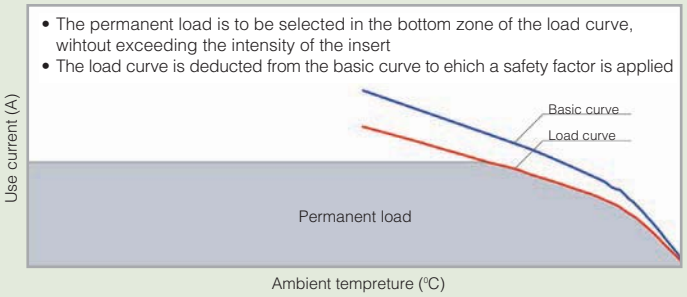
Without cover and without connection:

- Base and hood body :metal
- The 3P+E and 4P+E versions are also available in plastic
- Contacts:traited brass
- Contact supports : plastic
- Insert fixing screws : zin-coated steel
- Connection screws : tinned steel
- Seal:neoprene

■ Compliance with the standards

- Compliance with standards NF EN 61 984 and IEC 61 984
- Compliance with standards NF EN 60 529 and IEC 60 529 (IP)
- Compliance with standards NF EN 62 262 and IEC 62 262 (IK)
- Approvals :UL,CSA
- Compliance with ROHS

Basic curve and hard curve



PRACTICAL TRAINING FOR PROFESSIONALS

For training and information

To facilitate sales team, external n internal customers to have hands on experience of the subject and products

Please contact us for more information Legrand area manager

quality certificate
a stamp of recognition

Our vision of achieving higher standards of quality has earned us the coveted ISO 9001: 2000 certification. The production units of Legrand at Jalgaon and Sinnar has been assessed and approved by Bureau Vertias Quality International for maintaining international quality standards in every stage of production. Our quest for quality doesn't end here. This achievement has further inspired us to set higher standards of quality through innovation and advanced R&D activities. Thereby assuring optimum consumer satisfaction.

BVQI

Certification

Awarded to

LEGRAND (INDIA) PVT. LTD.

JALGAON: D 4, MIDC AREA, JALGAON – 425 003, MAHARASHTRA, INDIA.

SINNAR: A-2, MIDC MALEGOAN, SINNAR – 422 113, MAHARASHTRA, INDIA.

BVQI certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standard detailed below

STANDARD

ISO 14001:2004

SCOPE OF SUPPLY

JALGAON :

A. DESIGN, MANUFACTURE AND SUPPLY OF MINIATURE CIRCUIT BREAKERS (MCBs), RESIDUAL CURRENT OPERATED CIRCUIT BREAKERS WITH INTEGRAL OVERLOAD PROTECTION (RCBO) AND WITHOUT INTEGRAL OVERLOAD PROTECTION (RCCB) AND ISOLATORS FOR USE IN ELECTRICAL SYSTEMS / INSTALLATIONS.

B. MANUFACTURE AND SUPPLY OF MOULDED CASE CIRCUIT BREAKERS (MCCBs).

SINNAR :

A. DESIGN, MANUFACTURE AND SUPPLY OF MINIATURE CIRCUIT BREAKERS (MCBs), ISOLATORS AND WIRING ACCESSORIES FOR USE IN ELECTRICAL SYSTEMS / INSTALLATIONS.

B. STORAGE AND SUPPLY OF MCCBs, ACBs, DLP TRUNKING AND VOICE DATA IMAGE PRODUCTS.

Original Approval Date: **04 May 2006**

Subject to the continued satisfactory operation of the organisation's Management System, this certificate is valid until: **04 May 2009**

To check this certificate validity please call:+ 91 22 66956300

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation

Date: **30 August 2006**

Certificate Number: **199153**

UKAS ENVIRONMENTAL MANAGEMENT

008

R. K. SHARMA
Director

Managing/Issuing Office: BVQI (India) Pvt. Ltd., "Marwah Centre" 6th Floor, Opp. Arsa Industrial Estate, Krishanlal Marwah Marg. Off Saki Vihar Road, Andheri (East), Mumbai – 400 072, India.

Current rating chart

for copper and aluminium

Estimated current ratings for copper and aluminium conductors, vulcanised rubber, PVC, or polythene insulated cables (single, twin, three and four core)

	Standard copper conductor		Continuous current rating* (Subject to voltage drop)					Standard aluminium conductor	
Item	Area (Sq. inches)	Strand (Inches)	In conduit troughing or casing - 2 single core cables (A)	Bunched in free air or open trench: 2 single core cables (A)	Bunched in free air or open trench: 3 or 4 single core cables (A)	One twin core DC or AC (A)	1, 3 or 4 core cable balanced 3 phase (A)	Area (Sq. mm)	Strand (mm)
1	2	3	4	5	6	7	8	9	10
1 2	.0015 .002	1/.044 3/.029	5 10	5 10	55 10.9	5 10	5 8/7	1.5	1/1.40
3	.003	3/.036	15	15	13/12	15	10/11	2.5	1/1.80
4 5	.0045	7/.029	20 20	20 20	15 17	20 20	15 14	4	1/2.24
6 7	.007	7/.036	27 28	27 28	24 25	27 28	19 20	6	1/2.80
8 9	.01	7/.044	34 36	34 36	31 32	34 36	25 25	10	1/3.55
10	.0145	7/.052	43	43	39/38	43	30	16	7/1.70
11 12	.0225	7/.064	53 59	53 59	48 54	53 59	37 42	25	7/2.24
13 14 15	.03 .04	19/.044 19/.052	62 69 74	62 69 74	56 62 67	62 69 74	43 48 52	35	7/2.50
16 17	.06	19/.064	19	19 97	82 88	91 97	62 68	50	7/3.00 19/1.80
18 19	.075	19/.072		123 134	107 118	115 118	78 82	70	19/2.24
20 21	.1	19/.083		153 160	138 140	135 140	94 98	95	19/2.50
22 23	.12	37/.064		177 184	158 170	158 162	109 114	120	37/2.06
24 25	.15	37/.072		205 210	185 185	180 181	126 124	150	37/2.24
26 27	.2	37/.083		246 250	216 220	209 218	146 153	185	37/2.50
28 29	.25	37/.093		290 293	248 260	240 252	169 178	225	37/2.80
30 31	.3	37/.103		335 354	295 302	284 289	199 202	300	61/2.50
32 33	.4	61/.093		425 435	360 372	342	240	400	61/3.00
34 35	.5	61/.103		480 480	410 411			500	91/2.65
36 37	.75	91/.103		565 610	484 520			625	91/3.00
38	1.0	127/.103		740	630				

*Ratings at ambient temperature 30°C

For ambient temperature other than 30°C, the current ratings should be multiplied by the following rating factors

	25°C	35°C	40°C	45°C
Rating factor	1.13	0.86	0.69	0.47

In the above table, current ratings (subject to voltage drop) have been given for copper conductor cables (in conventional British standard sizes) and also for cables with aluminium conductors (in the new metric sizes as per IS 1753 - 1961). From this chart, the required size of aluminium conductor can be established if either the current rating or the size of the copper conductor is known.

To establish the size of the aluminium conductor against your requirement, read off the current rating for the conventional copper conductor cable (say, 7/.064) and select the conductor size from the last two columns (25 sq. mm.) which has a current rating equal to, or nearest to, that of the copper conductor cable.

Current carring capacity chart

for copper and aluminium busbars

Copper busbars : Constructional details and current carrying capacity at 35°C ambient temperature and 30°C temp. rise

Size in mm	Cross sectional area in mm²	weight (approx) kg./metre	Continuous current carrying capacity in Amps.							
			AC no. of buses				DC no. of buses			
			1 I	2 II	3 III	4 II 50 II	1 I	2 II	3 III	4 IIII
12x2	23.5	0.209	110	200			115	205		
15x2	29.5	0.262	140	200			145	245		
15x3	44.5	0.396	170	300			175	305		
20x2	39.5	0.351	185	315			190	325		
20x3	59.5	0.529	220	380			225	390		
20x5	99.1	0.882	295	500			300	510		
25x3	74.5	0.663	270	460			275	470		
25x5	124.0	1.11	350	600			355	610		
30x3	89.5	0.796	315	540			320	560		
30x5	149.0	1.33	400	700			410	720		
40x3	119.0	1.06	420	710			430	740		
40x5	199.0	1.77	520	900			530	930		
40x10	399.0	3.55	760	1350	1850	2500	770	1400	2000	
50x5	249.0	2.22	630	1100	1650	2100	650	1150	1750	
50x10	499.0	4.44	920	1600	2250	3000	960	1700	2500	
60x5	299.0	2.66	760	1250	1760	2400	780	1300	1900	2500
60x10	599.0	5.33	1060	1900	2600	3500	1100	2000	2800	3600
80x5	399.0	3.55	970	1700	2300	3000	1000	1800	2500	3200
80x10	799.0	7.11	1380	2300	3100	4200	1450	2600	3700	4800
100x5	499.0	4.44	1200	2050	2850	3500	1250	2250	3150	4050
100x10	999.0	8.89	1700	2800	3650	5000	1800	3200	4500	5800
120x10	1200.0	10.7	2000	3100	4100	5700	2150	3700	5200	6700
160x10	1600.0	14.2	2500	3900	5300	7300	2800	4800	6900	9000
200x10	2000.0	17.8	3000	4750	6350	8800	3400	6000	8500	10000

Aluminium busbars : Constructional details and current carrying capacity at 35°C ambient temperature and 30°C temp. rise

Size in mm	Cross sectional area in mm²	weight (approx) kg./metre	Continuous current carrying capacity in Amps.							
			AC no. of buses				DC no. of buses			
			1 I	2 II	3 III	4 II 50 II	1 I	2 II	3 III	4 IIII
12x2	23.5	0.0633	80	140			80	145		
15x2	29.5	0.0795	95	170			95	175		
15x3	44.5	0.120	115	210			115	220		
20x2	39.5	0.107	120	220			125	225		
20x3	59.5	0.161	145	270			150	280		
20x5	99.1	0.268	195	350			200	370		
25x3	74.5	0.201	180	330			185	340		
25x5	124.0	0.335	230	430			235	440		
30x3	89.5	0.242	205	385			220	400		
30x5	149.0	0.403	270	500			275	520		
40x3	119.0	0.323	280	500			285	525		
40x5	199.0	0.538	350	650			360	660		
40x10	399.0	1.08	515	975	1350	1800	540	1000	1420	
50x5	249.0	0.673	425	780	1120	1500	445	815	1220	
50x10	499.0	1.35	625	1150	1600	2160	655	1220	1730	
60x5	299.0	0.808	500	900	1300	1730	530	960	1420	1850
60x10	599.0	1.62	730	1330	1900	2500	770	1430	2030	2600
80x5	399.0	1.08	680	1170	1650	2230	700	1260	1850	2400
80x10	799.0	2.16	940	1700	2360	3150	985	1840	2640	3400
100x5	499.0	1.35	820	1440	2000	2600	855	1550	2220	2900
100x10	999.0	2.70	1150	2050	2800	3700	1200	2240	3200	4200
100x15	1500.0	4.04	1450	2500	3350	4400	1500	2750	4000	5200
120x10	1200.0	3.24	1350	2400	3250	4300	1420	2700	3900	5100
120x15	1800.0	4.86	1650	2900	3900	5000	1750	3250	4800	6300
160x10	1600.0	4.32	1750	3000	4150	5300	1850	3450	5000	6500
160x15	2400.0	6.47	2100	3600	4850	6250	2300	4300	6200	8100
200x10	2000.0	5.40	2150	3650	4950	6400	2300	4300	6200	8100
200x15	3000.0	8.09	2550	4200	5600	7300	2850	5250	7650	10100

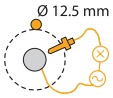
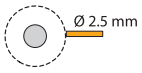
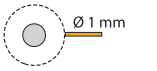
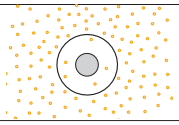
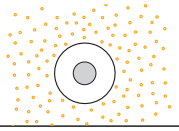
index of protection : IPxx and IK

IPXX

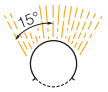
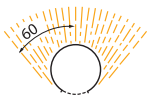
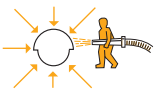
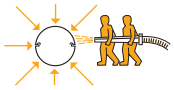
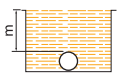
Index of protection

IP* index of protection of enclosures of electrical equipment in accordance with standards IEC 529, BS 5490, DIN 400 50 and NF C 20-010**
Up to 1000 V~ and 1500 V⎓ (standard UTE C 20 010)

1st figure-: protection against solid bodies

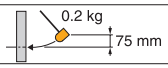
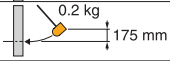
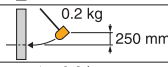
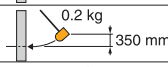
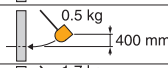
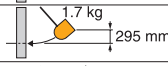
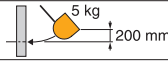
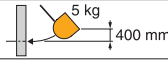
IP	tests	
0		No protection
1		Protected against solid bodies larger than 50 mm (eg-: accidental contact with the hand)
2		Protected against solid bodies larger than 12 mm (eg-: finger)
3		Protected against solid bodies larger than 2.5 mm (eg-: tools, wires)
4		Protected against solid bodies larger than 1 mm (eg-: fine tools and small wires)
5		Protected against dust (no harmful deposit)
6		Completely protected against dust

2nd figure-: protection against liquids

IP	tests	
0		No protection
1		Protected against vertically-falling drops of water (condensation)
2		Protected against drops of water falling at up to 15° from the vertical
3		Protected against drops of rain water at up to 60° from the vertical
4		Protected against projections of water from all directions
5		Protected against jets of water from all directions
6		Protected against jets of water of similar force to heavy seas
7		Protected against the effects of immersion
8		Protected against prolonged effects of immersion under pressure

IK

Protection against mechanical impact: protection index - IK
According to standard: IEC 62262, BS EN 62262 and NF EN 62262
• This table can be used to ascertain the resistance of a product to an impact given in Joules from the IK code (graduated from 00 to 10)
It can also be used to ascertain the correspondence with the old IP code 3rd digit and the corresponding external "Ag" conditions

IK	Tests	Impact energy (in Joules)	"AG" of NF C 15-100
IK 00		0	
IK 01		0.15	
IK 02		0.2	AG1
IK 03		0.35	
IK 04		0.5	
IK 05		0.7	
IK 06		1	
IK 07		2	AG2
IK 08		5	AG3
IK 09		10	
IK 10		20	AG4

The contents of all the above charts are for guidance only, if you have any doubt as to the interpretation of the information contained therein, please refer either to the standard itself or contact Legrand.

In accordance with our policy of continuous improvement, Legrand reserves the right to change specifications and designs without notice. All information given here is correct at the time of going to press.