



ELECTRICAL INDUSTRIES



2011 general catalogue 2012

FPB Palazzoli

INDUSTRIAL PLUGS & SOCKETS



INDUSTRIAL PLUGS & SOCKETS












A Comprehensive range of Industrial Plugs, Sockets & accessories to suit all environments & applications manufactured to the highest quality & meeting IEC60309 (BS EN 60309) specifications.

- Surface, flush & cable mounting
- Interchangeable with other manufacturers products meeting IEC 60309
- Range from 16amps to 125amps
- Operating voltage up to 690V ac in varying pin configurations
- Corrosion & impact resistant
- IP rated – sealed against levels of dust & water ingress
- Colour coded to identify operating voltage
- Typical operating temperature -25°C to 50°C
- Safe & reliable
- Protection against indirect contact

INDUSTRIAL PLUGS & SOCKETS

INDUSTRIAL PLUGS AND CONNECTORS MOULDED IEC 60309












RAPID SELECTION TABLE

Rated Current (A)	Frequency (Hz)	Rated Voltage (V)	No. Poles	h ref	Plugs							Connectors			
															
					IP44 Page 14	IP67 Page 14	IP44 Page 16	IP44 Page 16	IP67 Page 17	IP67 Page 17	IP67 Page 17	IP44 Page 14	IP67 Page 14	IP67 Page 18	IP67 Page 18
16	50-60	110 100+130	2P+E	4	PM16/1000FPB	710124	PM16/500FPB	475202	475203	477203		PM16/2000FPB	730124	473203	
			3P+E		700134		477212	475212	475213	477213	720134		473213		
			3P+N+E		700144		477222	475222	475223	477223	720144		473223		
		230 200+250	2P+E	9	PM16/1100FPB	710126	PM16/501FPB	475302	475303	477303		PM16/2100FPB	730126	473303	
			3P+E		700139		477312	475312	475313	477313	720139		473313		
			3P+N+E		700149		477322	475322	475323	477323	720149		473323		
		400 380+415	2P+E	6	PM16/1500FPB	710136	PM16/505FPB	475412	475413	477413		PM16/2500FPB	730136	473413	
			3P+E		PM16/1800FPB	710146	PM16/508FPB	475422	475423	477423	PM16/2800FPB	730146	473423		
			3P+N+E												
		500 480+500	2P+E	7						477273				473503	
			3P+E							477513				473513	
			3P+N+E							477523				473523	
32	50-60	110 100+130	2P+E	4	PM32/1000FPB	710224	PM32/500FPB			477206		PM32/2000FPB	730224	473206	
			3P+E		700234		477215			477216	720234		473216		
			3P+N+E		700244		477225			477226	720244		473226		
		230 200+250	2P+E	9	PM32/1100FPB	710226	PM32/501FPB			477306		PM32/2100FPB	730226	473206	
			3P+E		700239		477315			477316	720239		473216		
			3P+N+E		700249		477325			477326	720249		473226		
		400 380+415	2P+E	6	PM32/1500FPB	710236	PM32/505FPB			477416		PM32/2500FPB	730236	473316	
			3P+E		PM32/1800FPB	710246	PM32/508FPB			477426	PM32/2800FPB	730246	473326		
			3P+N+E												
		500 480+500	2P+E	7						477556				473506	
			3P+E							477516				473516	
			3P+N+E							477526				473526	
63	50-60	110 100+130	2P+E	4						477207				473207	
			3P+E							477217				473217	
			3P+N+E							477227				473227	
		230 200+250	2P+E	9						477307	PM63/601			473307	PM63/801
			3P+E							477317				473317	
			3P+N+E							477327				473327	
		400 380+415	2P+E	6						477407				473407	
			3P+E							477417	PM63/605			346338	PM63/805
			3P+N+E							477427	PM63/608			356338	PM63/808
		500 480+500	3P+E	7						477517				346350	
			3P+N+E												PM125/800
125	50-60	110 100+130	2P+E	4							PM125/600				
			3P+E							477218			473218		
			3P+N+E							477228			473228		
		230 200+250	2P+E	9							PM125/601				PM125/801
			3P+E							477318			473318		
			3P+N+E							477328			477328		
		400 380+415	3P+E	6						249538	PM125/605			349538	PM125/805
			3P+N+E							259538	PM125/608			359538	PM125/808
			3P+E							249550				349550	
		500 480+500	3P+N+E	11						477538					

INDUSTRIAL PLUGS & SOCKETS

INDUSTRIAL WALL MOUNTING INLETS AND SOCKETS MOULDED IEC 60309










RAPID SELECTION TABLE

Rated Current (A)	Frequency (Hz)	Rated Voltage (V)	No. Poles	h ref	Inlets			Sockets								
																
					IP44 Splashproof angled	IP67 Watertight angled	IP67 Watertight Cee Series angled	IP44 Splashproof angled	IP44 Splashproof topTER angled	IP44 Splashproof Heavy Duty angled	IP44 Splashproof Ter Series angled	IP67 Watertight topTER angled	IP67 Watertight Ter Series angled	IP67 Watertight angled	IP67 Watertight Cee Series angled	
16	50-60	110 100+130	2P+E	4	PM16/780	PM16/740		PM16/540N	508124	471262	485124	509124	487124			
			3P+E							471272	485134		487134	489134		
			3P+N+E							471222	485144		487144	489144		
		230 200+250	2P+E	6	PM16/781	PM16/741		PM16/541N	508126	471362	485126	509126	487126			
			3P+E							471372	485139		487139	489139		
			3P+N+E							471322	485149		487149	489149		
		400 380+415	2P+E	9						471462	485129		487129	489129		
			3P+E		PM16/785	PM16/745		PM16/545	508136	471472	485136	509136	487136			
			3P+N+E		PM16/788	PM16/748		PM16/548	508146	471482	485146	509146	487146			
		500 480+500	2P+E	7						471552						
			3P+E							471572						
			3P+N+E							471562						
32	50-60	110 100+130	2P+E	4	PM32/780	PM32/740		PM32/540	508224	471266	485224	509224	487224			
			3P+E							471276	485234		487234	489234		
			3P+N+E							471286	485244		487244	489244		
		230 200+250	2P+E	6	PM32/781	PM32/741		PM32/541	508226	471366	485226	509226	487226			
			3P+E							471376	485239		487239	489239		
			3P+N+E							471386	485249		487249	489249		
		400 380+415	2P+E	9						471466	485229		487229	489229		
			3P+E		PM32/785	PM32/745		PM32/545	508236	471476	485236	509236	487236			
			3P+N+E		PM32/788	PM32/748		PM32/548	508246	471486	485246	509246	487246			
		500 480+500	2P+E	7						471555						
			3P+E							471576						
			3P+N+E							471576						
63	50-60	230 200+250	2P+E	6		PM63/741	PM63/741N						PM63/641			
			3P+E													
		400 380+415	2P+E	9												
			3P+E			PM63/745N	745338						PM63/645	445338		
		3P+N+E	6		PM63/748N	748538							PM63/648	455338		
125	50-60	110 100+130	2P+E	4										PM125/640		
			3P+E											PM125/643		
			3P+N+E											PM125/646		
		230 200+250	2P+E	6				PM125/741N							PM125/641	
			3P+E												PM125/644	
			3P+N+E												PM125/647	
		400 380+415	2P+E	9											PM125/642	
			3P+E						448538						PM125/645	448538
			3P+N+E						PM125/748FPB						PM125/648	458538

INDUSTRIAL PLUGS & SOCKETS

INDUSTRIAL PANEL APPLIANCE MOULDED IEC 60309

RAPID SELECTION TABLE

Rated Current (A)	Frequency (Hz)	Rated Voltage (V)	No. Poles	h ref	Inlets			Sockets					
													
					IP44 Page 25	IP67 Page 26	IP67 Page 26	IP44 Page 27	IP44 Page 28	IP67 Page 27	IP67 Page 28	IP67 Page 28	IP67 Page 28
					IP44 Splashproof	IP67 Watertight Cee Series straight	IP67 Watertight angled	IP44 Splashproof Cee Series straight	IP44 Splashproof topTER angled	IP67 Watertight straight	IP67 Watertight straight	IP67 Watertight topTER angled	IP67 Watertight Cee Series angled
16	50-60	110 100+130	2P+E	4	PM16/790			PM16/3000FPB	488124	PM16/660		489124	471263
			3P+E				441611	488134		489134	471273		
			3P+N+E				451611	488144		489144	471223		
		230 200+250	2P+E	6	PM16/791			PM16/3100FPB	488126	PM16/661		489126	471363
			3P+E				441622	488139		489139	471373		
			3P+N+E				451622	488149		489149	471333		
		400 380+415	2P+E	9				431638	488129			489129	471463
			3P+E		PM16/795		PM16/3500FPB	488136	PM16/665	489136	471473		
			3P+N+E		PM16/798		PM16/3800FPB	488146	PM16/668	489146	471483		
		500 480+500	2P+E	7									471553
			3P+E								471573		
			3P+N+E								471563		
32	50-60	110 100+130	2P+E	4	PM32/790			PM32/3000FPB	488224	PM32/660		489224	471267
			3P+E				443211	488234		489234	471277		
			3P+N+E				453211	488244		489244	471287		
		230 200+250	2P+E	6	PM32/791			PM32/3100FPB	488226	PM32/661		489226	471367
			3P+E				443222	488239		489239	471377		
			3P+N+E				453222	488249		489249	471387		
		400 380+415	2P+E	9				433328	488229			489229	471467
			3P+E		PM32/795		PM32/3500FPB	488236	PM32/665	489236	471477		
			3P+N+E		PM32/798		PM32/3800FPB	488246	PM32/668	489246	471487		
		500 480+500	2P+E	7									471556
			3P+E								471577		
			3P+N+E								471567		
63	50-60	110 100+130	2P+E	4		476207				436311		536311	
			3P+E			476217			446311		546311		
			3P+N+E			476227			456311		556311		
		230 200+250	2P+E	6		476307	PM63/751			PM63/661		536322	
			3P+E			476317			446332		546322		
			3P+N+E			476327			456322		556322		
		400 380+415	2P+E	9		476407				436338		536338	
			3P+E			746338	PM63/755		PM63/665		546338		
			3P+N+E			756338	PM63/758		PM63/668		556338		
		500 480+500	3P+E	7		476517						546350	
			3P+N+E										
125	50-60	110 100+130	2P+E	4						PM125/660			
			3P+E			476218			449311		549311		
			3P+N+E			476228			459311		559311		
		230 200+250	2P+E	6			PM125/751			PM125/661			
			3P+E			476318			449322		549322		
			3P+N+E			476328			459322		559322		
		400 380+415	3P+E	6		749538	PM125/755			PM125/665		549538	
			3P+N+E			459538	PM125/758		PM125/668		559538		
		500 480+500	3P+E	7		749550						549550	

INDUSTRIAL PLUGS & SOCKETS

MOULDED IEC 60309

THE TECHNIQUE

MULTIMAX SERIES - PROTECTED INDUSTRIAL PLUGS AND SOCKET-OUTLETS



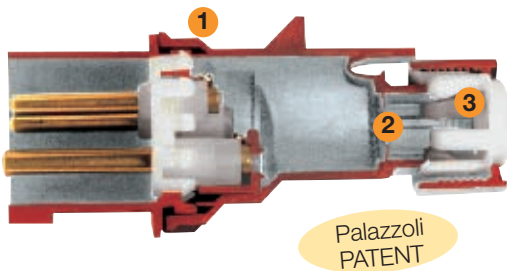
DESIGN PLUS

Design Plus Prize
Frankfurt

The body of the Multimax socket-outlets and plugs are made of technopolymers with high resistance to impacts and crushing, ensuring dimensional stability and resistance to accidental treading. In addition to their safety of operation and durability, which are much higher than the minimum limits prescribed by the standards in force, Multimax plugs are characterized by easy dismantling, wiring and reassembly. The body containing the insert is fixed to the grip containing the stepped gland by 1/4 of a turn screw system. The insert terminals point in one direction to speed up cable tightening. The cable easily fits into the cord grip and the seal is obtained by manually tightening the ring nut. All these operations require less than approx. 20 seconds, which is about 1/4 of the time needed for connecting ordinary plugs. Safety is priceless and the time saved in assembly is money saved.

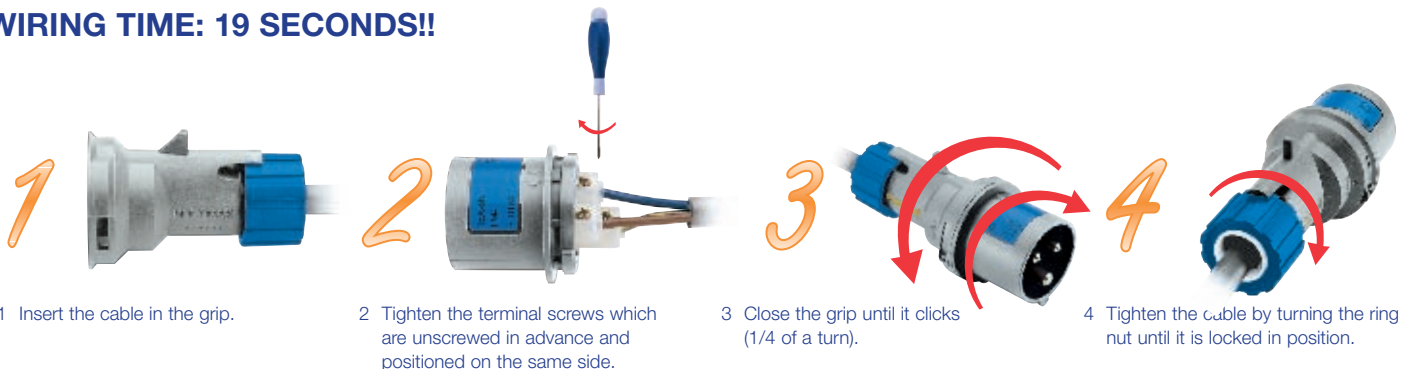
THE ADVANTAGES

3 GOOD REASONS FOR CHOOSING MULTIMAX



- 1 SPEED IN ASSEMBLING THE GRIP performed without tools, with 1/4 of a turn snaplock function.
- 2 GUARANTEE THAT THE CABLE REMAINS SECURE OVER TIME the cord grip with the ring nut locking device prevents accidental loosening of the cable.
- 3 SAFETY OF PROTECTION RATING even when the cable is under strain, thanks to an impossible to lose, screwless radial clamping cord grip. The membrane gasket works before the cord grip inside the grip.

WIRING TIME: 19 SECONDS!!



1 Insert the cable in the grip.

2 Tighten the terminal screws which are unscrewed in advance and positioned on the same side.

3 Close the grip until it clicks (1/4 of a turn).

4 Tighten the cable by turning the ring nut until it is locked in position.

ON HIGH CURRENT 63A AND 125A



The multi-lamellar crown in silver coated copper-beryllium alloy guarantees:

- wider pit-plug surface contact;
- easy removal of the plugs from the sockets;
- perfect cleaning of the plug;
- a hard-wearing, long-lasting electric contact.

INDUSTRIAL PLUGS & SOCKETS

PLUGS AND CONNECTORS MULTIMAX RAPID WIRING

Conformity to Standards:	CEI EN 60309-1	IEC 60309-1	Cable entry	16A	2P+E	min: 8	max: 13 mm
	CEI EN 60309-2	IEC 60309-2			3P+E	min: 8.5	max: 14 mm
	CEI EN 60529	IEC 60529			3P+N+E	min: 10	max: 15.5 mm
Impact resistance:	>IK 08			32A	2P+E	min: 11.5	max: 17.5 mm
Glow wire test:	850°C insert				3P+E	min: 12.5	max: 19.5 mm
Self extinguishing:	V2				3P+N+E	min: 14	max: 21.5 mm
Temperature resistance:	Operating	-25 to +50°C	Connecting sections of the wires	16A		min: 1	max: 2.5mm ²
	Storage	-30 to +70°C			32A		min: 2.5




Multimax Series

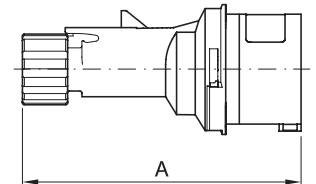
- Manufactured from thermoplastic material, suitable for general use applications.
- An economic range of plugs & connectors for trailing leads range covering 16A, 32A & 63A ratings.
- Fast & simple assembly & wiring (typically 19 seconds), supporting lower installation costs.
- Durable construction with high resistance to mechanical impact.
- Available in both IP44 & IP67 versions.
- Screwless radial cord grip technology.
- Quarter turn snap lock body shell.

MOULDED IEC 60309 PLUGS

IP44 Splashproof - Multimax

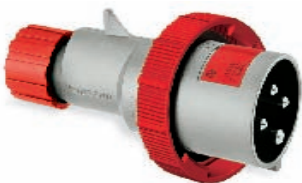





A	V	 2P+E	 3P+E	 3P+N+E
16	110	PM16/1000FPB	700134	700144
	230	PM16/1100FPB	700139	700149
	400	700129	PM16/1500FPB	PM16/1800FPB
32	110	PM32/1000FPB	700234	700244
	230	PM32/1100FPB	700239	700249
	400	700229	PM32/1500FPB	PM32/1800FPB

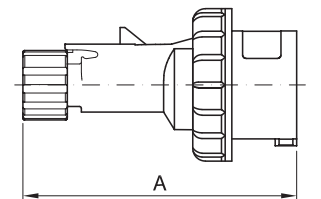


Rated current (A)	Poles	A (mm)
16	2P+E	127
	3P+E	134
	3P+N+E	142
32	2P+E	154
	3P+E	154
	3P+N+E	173

IP67 Watertight - Multimax






A	V	 2P+E	 3P+E	 3P+N+E
16	110	710124		
	230	710126		
	400		710136	710146
32	110	710224		
	230	710226		
	400		710236	710246

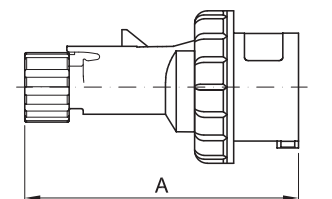


Rated current (A)	Poles	A (mm)
16	2P+E	135
	3P+E	140
	3P+N+E	150
32	2P+E	165
	3P+E	165
	3P+N+E	170

IP67 Watertight - Multimax



A	V	 2P+E	 3P+E	 3P+N+E
63	230	710326		
	400		710336	710346






Rated current (A)	Poles	A (mm)
63	2P+E	250
	3P+E	250
	3P+N+E	250

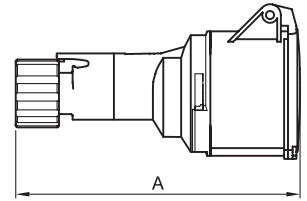
INDUSTRIAL PLUGS & SOCKETS

MOULDED IEC 60309 PLUGS AND CONNECTORS

IP44 Splashproof - Multimax






A	V	 2P+E	 3P+E	 3P+N+E
16	110	PM16/2000FPB	720134	720144
	230	PM16/2100FPB	720139	720149
	400	720129	PM16/2500FPB	PM16/2800FPB
32	110	PM32/2000FPB	720234	720244
	230	PM32/2100FPB	720239	720249
	400	720229	PM32/2500FPB	PM32/2800FPB

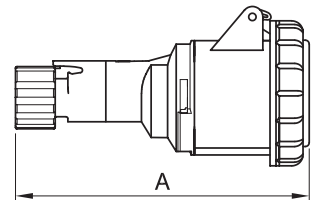


Rated current (A)	Poles	A (mm)
16	2P+E	134
	3P+E	143
	3P+N+E	151
32	2P+E	163
	3P+E	163
	3P+N+E	182

IP67 Watertight - Multimax






A	V	 2P+E	 3P+E	 3P+N+E
16	110	730124		
	230	730126		
	400		730136	730146
32	110	730224		
	230	730226		
	400		730236	730246

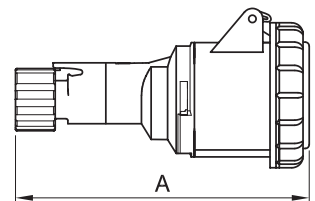


Rated current (A)	Poles	A (mm)
16	2P+E	145
	3P+E	150
	3P+N+E	165
32	2P+E	180
	3P+E	180
	3P+N+E	185

IP67 Watertight - Multimax



A	V	 2P+E	 3P+E	 3P+N+E
63	230	730326		
	400		730336	730346



Rated current (A)	Poles	A (mm)
63	2P+E	270
	3P+E	270
	3P+N+E	270

INDUSTRIAL PLUGS & SOCKETS

PLUGS AND CONNECTORS - HEAVY DUTY

Conformity to Standards:	BS EN 60309-1	IEC 60309-1	Cable entry	63A	2P+E	min: 17	max: 26 mm
	BS EN 60309-2	IEC 60309-2			3P+E	min: 19	max: 28.5mm
	BS EN 60529	IEC 60529			3P+N+E	min: 21	max: 31.5mm
Impact resistance:	>IK 08			125A	2P+E	min: 26	max: 39.5mm
Glow wire test:	850°C				3P+E	min: 28.5	max: 43.5mm
Temperature resistance:	Operating	-25 to +50°C			3P+N+E	min: 31	max: 46 mm
	Storage	-40 to +80°C		Connecting sections of the wires	63A	min: 6	max: 16 mm ²
					125A	min: 16	max: 50 mm ²




Cee Series

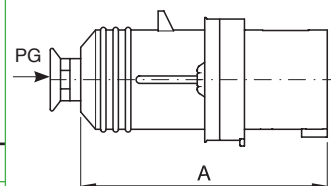
- A high performance & heavy duty plug & socket range covering 16 to 125A ratings.
- Suitable for frequent use in the presence of knocks, vibrations, chemical agents, liquids, & dust.
- Constructed from high grade thick walled thermosetting material.
- Easy contact technology incorporated on 63 & 125A rated products.
- Non ageing elastomer sealing gaskets.
- Plugs & connectors for trailing leads feature a threaded entry gland design.
- Available in both IP44 & IP67 versions.

MOULDED IEC 60309 PLUGS

IP44 Splashproof - glanded






A	V			
		2P+E	3P+E	3P+N+E
16	110	PM16/500FPB	477212	477222
	230	PM16/501FPB	477312	477322
	400	477402	PM16/505FPB	PM16/508FPB
32	110	PM32/500FPB	477215	477225
	230	PM32/501FPB	477315	477325
	400	477405	PM32/505FPB	PM32/508FPB

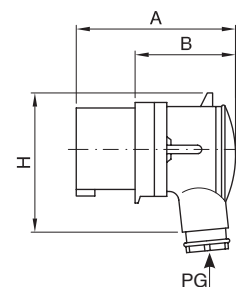


Rated current (A)	Poles	A (mm)	PG
16	2P+E	112	13.5
	3P+E	117	16
	3P+N+E	124	16
32	2P+E	141	21
	3P+E	141	21
	3P+N+E	141	21

IP44 Splashproof - angled



A	V			
		2P+E	3P+E	3P+N+E
16	110	475202	475212	475222
	230	475302	475312	475322
	400	475402	475412	475422






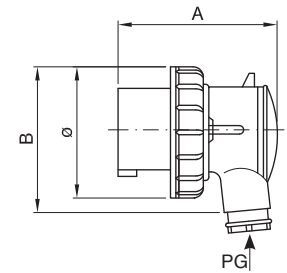
Rated current (A)	Poles	A (mm)	B (mm)	H (mm)	PG
16	2P+E	89	52	73	13.5
	3P+E	97	60	84	16
	3P+N+E	102	65	93	16

INDUSTRIAL PLUGS & SOCKETS

IP67 Watertight - angled






A	V			
16	110	475203	475213	475223
	230	475303	475313	475323
	400	475403	475413	475423

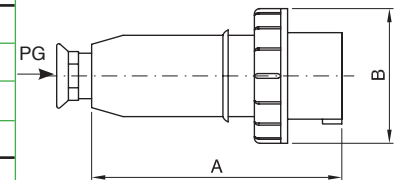


Rated current (A)	Poles	A (mm)	B (mm)	ø (mm)	PG
16	2P+E	97	79	73	13.5
	3P+E	97	90	80	16
	3P+N+E	102	100	88	16

IP67 Watertight - glanded



A	V			
16	110	477203	477213	477223
	230	477303	477313	477323
	400	477403	477413	477423
	500	477273	477513	477523
32	110	477206	477216	477226
	230	477306	477316	477326
	400	477406	477416	477426
	500	477556	477516	477526
63	110	477207	477217	477227
	230	477307	477317	477327
	400	477407	477417	477427
	500		477517	
125	110		477218	477228
	230		477318	477328
	400		249538	259538
	440-460			477538
	500		249550	






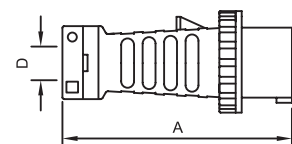
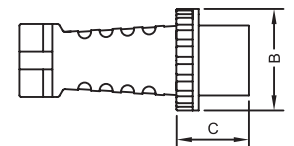
Rated current (A)	Poles	A (mm)	B (mm)	PG
16	2P+E	112	73	13.5
	3P+E	117	80	16
	3P+N+E	124	88	16
32	2P+E	141	94	21
	3P+E	141	94	21
	3P+N+E	141	101	21
63	2P+E	208	110	29
	3P+E			
	3P+N+E			
125	2P+E	283	126	2" GAS
	3P+E			
	3P+N+E			

The above plugs are fitted with a glanded entry and elastomer cable seal

IP67 Watertight - external cable clamp entry



A	V			
63	230	PM63/601		
	400		PM63/605	PM63/608
125	230	PM125/601		
	400		PM125/605	PM125/608



D= MAX CABLE DIAMETER

Rated current (A)	Poles	A (mm)	B (mm)	C (mm)	D (mm)
63	2P+E	238	110	75	31.5
	3P+E	238	110	75	31.5
	3P+N+E	238	110	75	31.5
125	2P+E	315	119	88	45
	3P+E	315	119	88	45
	3P+N+E	315	119	88	45




- Available in 63 & 125A ratings.
- The external cable clamp arrangement ensures a superior cable retention system, & allows acceptance of a wide range of cable diameters.

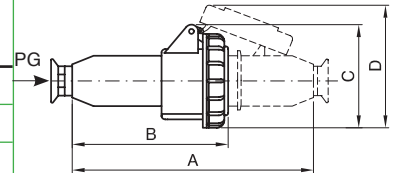
INDUSTRIAL PLUGS & SOCKETS

MOULDED IEC 60309 CONNECTORS

IP67 Watertight - glanded



A	V	 2P+E	 3P+E	 3P+N+E
16	110	473203	473213	473223
	230	473303	473313	473323
	400	473403	473413	473423
	500	473503	473513	473523
32	110	473206	473216	473226
	230	473306	473316	473326
	400	473406	473416	473426
	500	473506	473516	473526
63	110	473207	473217	473227
	230	473307	473317	473327
	400	473407	346338	356338
	500		346350	
125	110		473218	473228
	230		473318	477328
	400		349538	359538
	500		349550	






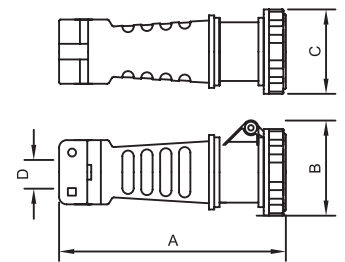
Rated current (A)	Poles	A (mm)	B (mm)	C (mm)	D (mm)	PG
16	2P+E	185	120	82	100	13.5
	3P+E	195	124	90	107	16
	3P+N+E	200	124	100	117	16
32	2P+E	238	153	105	125	21
	3P+N+E			110	130	
63	2P+E	375	248	120	150	29
	3P+E					
	3P+N+E					
125	2P+E	483	290	130	168	2" GAS
	3P+E					
	3P+N+E					

The above plugs are fitted with a glanded entry and elastomer cable seal.

IP67 Watertight - external cable clamp entry



A	V	 2P+E	 3P+E	 3P+N+E
63	230	PM63/801		
	400		PM63/805	PM63/808
125	230	PM125/801		
	400		PM125/805	PM125/808



D= MAX CABLE DIAMETER

Rated current (A)	Poles	A (mm)	B (mm)	C (mm)	D (mm)
63	2P+E	255	113	110	31.5
	3P+E	255	113	110	31.5
	3P+N+E	255	113	110	31.5
125	2P+E	350	128	119	45
	3P+E	350	128	119	45
	3P+N+E	350	128	119	45

INDUSTRIAL PLUGS & SOCKETS




SURFACE APPLIANCE INLETS

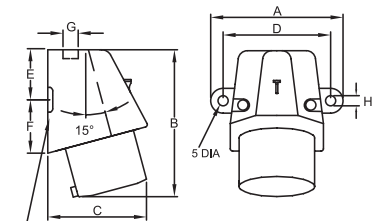
Conformity to Standards:	BS EN 60309-1	IEC 60309-1	Cable entry	16A	2P+E & 3P+E	M20 Threaded
	BS EN 60309-2	IEC 60309-2		32A	3P+N+E	M25 Threaded
	BS EN 60529	IEC 60529		32A		M25 Threaded
Impact resistance:	>IK 06		Connecting sections of the wires	16A	min: 1	max: 2.5mm ²
Glow wire test:	850°C			32A	min: 2.5	max: 6 mm ²
Temperature resistance:	Operating	-25 to +50°C				
	Storage	-30 to +70°C				

MOULDED IEC 60309 SURFACE APPLIANCE INLETS

IP44 Splashproof Compact - angled



A	V			
16	110	PM16/780		
	230	PM16/781		
32	110	PM32/780		
	230	PM32/781		






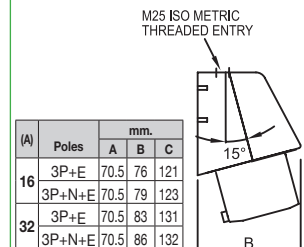
BLIND KNOCKOUT FOR REAR CABLE ENTRY 20/25mm

(A)	Poles	mm.							
		A	B	C	D	E	F	G	H
16	2P+E	86	103	69	69	37	35	M20	18
	32	2P+E	89	125	85	65	32	51	M25

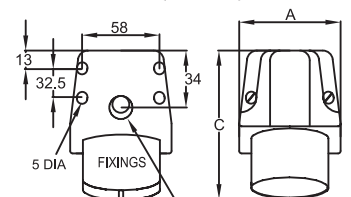
IP44 Splashproof - angled



A	V			
16	400		PM16/785N	PM16/788N
32	400		PM32/785N	PM32/788N



(A)	Poles	mm.		
		A	B	C
16	3P+E	70.5	76	121
	3P+N+E	70.5	79	123
32	3P+E	70.5	83	131
	3P+N+E	70.5	86	132









KNOCKOUT IN REAR WALL 20/25MM DIA

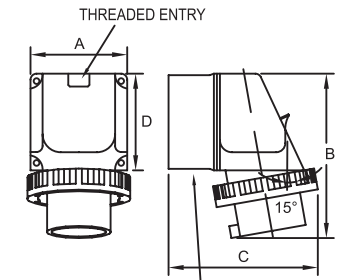
INDUSTRIAL PLUGS & SOCKETS

IP67 Watertight - angled

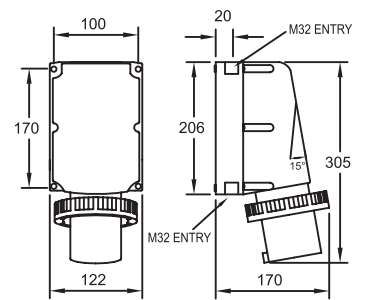


A	V			
16	110	PM16/740		
	230	PM16/741		
	400		PM16/745	PM16/748
32	110	PM32/740		
	230	PM32/741		
	400		PM32/745	PM32/748

A	V			
63	230	PM63/741N		
	400		PM63/745N	PM63/748N



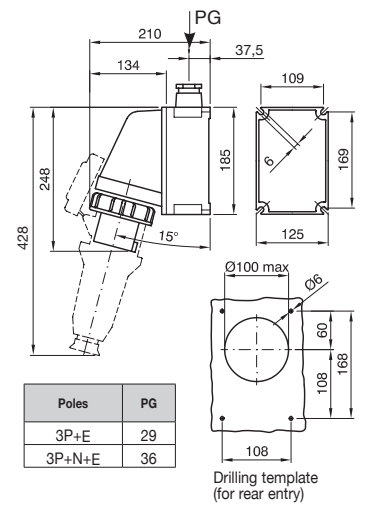
(A)	mm.					
	A	B	C	D	ENTRY	KNOCKOUTS
16	81	139	115	100	PG21	2x PG16
32	107	180	137	131	PG21	2x PG21



IP67 Watertight - angled






A	V			
63	400		745338	755338

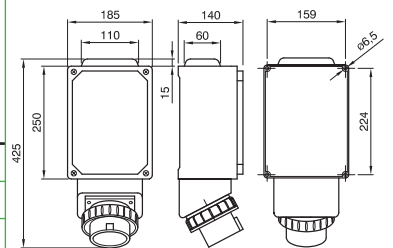


Poles	PG
3P+E	29
3P+N+E	36

Drilling template (for rear entry)



A	V			
125	230	PM125/741N		
	400		748538	PM125/748FPB



Note: IP classification of appliance inlets is tested when the connector is fully inserted.
For anti contamination caps see page 30

INDUSTRIAL PLUGS & SOCKETS




SURFACE SOCKETS

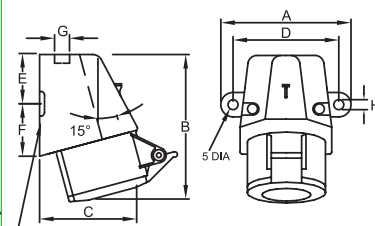
Conformity to Standards:	BS EN 60309-1	IEC 60309-1	Cable entry	16A	2P+E & 3P+E	M20 Threaded
	BS EN 60309-2	IEC 60309-2		32A	3P+N+E	M25 Threaded
	BS EN 60529	IEC 60529		63A		M25 Threaded
Impact resistance:	>IK 06 16 & 32A - >IK 07 63 & 125A					M32 Threaded
Glow wire test:	850°C					
Temperature resistance:	Operating	-25 to +50°C		16A	min: 1.5	max: 4 mm ²
	Storage	-30 to +70°C		32A	min: 2.5	max: 10 mm ²
				63A	min: 6	max: 25 mm ²

MOULDED IEC 60309 SURFACE SOCKETS

IP44 Splashproof - angled



A	V			
16	110	PM16/540N		
	230	PM16/541N		
	400		PM16/545	PM16/548
32	110	PM32/540		
	230	PM32/541		
	400		PM32/545	PM32/548






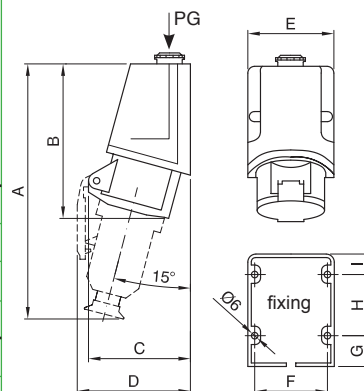
BLIND KNOCKOUT FOR REAR CABLE ENTRY 20/25mm

(A)	Poles	mm.							
		A	B	C	D	E	F	G	H
16	2P+E	86	121	88	69	37	35	M20	5.3
	3P+E	94	125	97	77	37	35	M20	5.3
	3P+N+E	89	128	104	65	32	51	M25	5.3
32	2P+E	89	138	107	65	32	51	M25	5.3
	3P+E	89	138	107	65	32	51	M25	5.3
	3P+N+E	89	138	107	65	32	51	M25	5.3

IP44 Splashproof - heavy duty wall mounted



A	V			
16	110	471262	471272	471222
	230	471362	471372	471332
	400	471462	471472	471482
	500	471552	471572	471562
32	110	471266	471276	471286
	230	471366	471376	471386
	400	471466	471476	471486
	500	471555	471576	471566






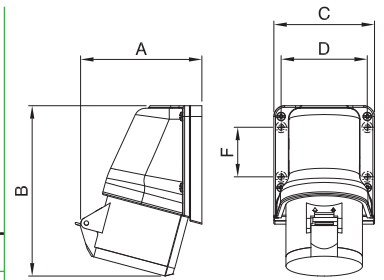
(A)	Poles	mm.									
		A	B	C	D	E	F	G	H	I	PG
16	2P+E	220	125	80	90	65	54	25	44	16	13.5
	3P+E	220	134	88	99	75	64	28	52	16	16
	3P+N+E	220	134	92	105	75	64	28	52	16	16
32	2P+E	256	154	100	115	84	72	31.5	56	22.5	21
	3P+E	256	154	100	115	84	72	31.5	56	22.5	21
	3P+N+E	258	155	103	120	84	72	31.5	56	22.5	21

INDUSTRIAL PLUGS & SOCKETS

IP44 Splashproof - topTER Series wall mounted






A	V			
16	110	508124		
	230	508126		
	400		508136	508146
32	110	508224		
	230	508226		
	400		508236	508246

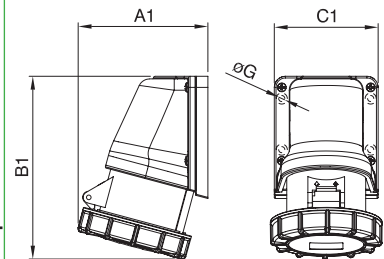


(A)	Poles	mm.					
		A	B	C	D	F	G
16	2P+E	101	146	93,5	80	46	5,5
	3P+E	104	146	93,5	80	46	5,5
	3P+N+E	107	147	93,5	80	46	5,5
32	2P+E	114	157	93,5	80	46	5,5
	3P+E	114	157	93,5	80	46	5,5
	3P+N+E	116	158	93,5	80	46	5,5

IP67 Watertight - topTER Series wall mounted



A	V			
16	110	509124		
	230	509126		
	400		509136	509146
32	110	509224		
	230	509226		
	400		509236	509246
63	400	509326	509336	509346






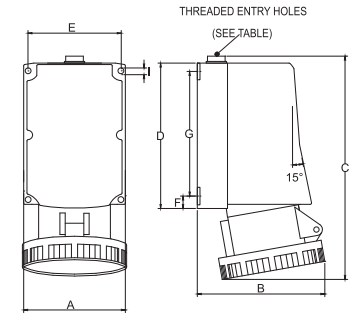
(A)	Poles	mm.					
		A 1	B 1	C 1	D	F	G
16	2P+E	101	146	93,5	80	46	5,5
	3P+E	104	146	93,5	80	46	5,5
	3P+N+E	107	147	93,5	80	46	5,5
32	2P+E	114	157	93,5	80	46	5,5
	3P+E	114	157	93,5	80	46	5,5
	3P+N+E	116	158	93,5	80	46	5,5
63	ALL	171	230	118	106	158	6

INDUSTRIAL PLUGS & SOCKETS

IP67 Watertight - wall mounted



A	V	 2P+E	 3P+E	 3P+N+E
63	230	PM63/641		
	400		PM63/645	PM63/648
125	110	PM125/640	PM125/643	PM125/646
	230	PM125/641	PM125/644	PM125/647
	400	PM125/642	PM125/645	PM125/648






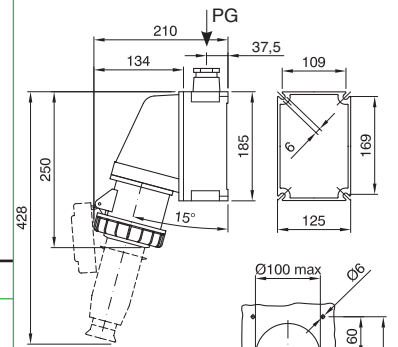
ISO METRIC ENTRIES		
	TOP	BOTTOM
125A	1 x M83	2 x 40 (ø) KNOCKOUTS

(A)	Poles	mm.							
		A	B	C	D	E	F	G	H
16	2P+E	162	205	322	222	140	11	240	8(ø)
	3P+E	162	205	322	222	140	11	240	8(ø)
	3P+N+E	162	205	322	222	140	11	240	8(ø)

IP67 Watertight - wall mounted




A	V	 2P+E	 3P+E	 3P+N+E
63	400		445338	455338

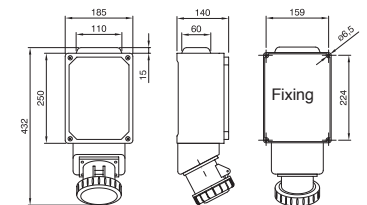


Poles	PG
3P+E	29
3P+N+E	36

Drilling template
(for rear entry)






A	V	 2P+E	 3P+E	 3P+N+E
125	400		448538	458538

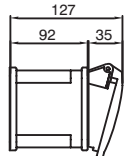
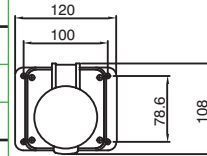


INDUSTRIAL PLUGS & SOCKETS

IP44 Splashproof - Ter Series wall mounted - angled






A	V	 2P+E	 3P+E	 3P+N+E
16	110	PM16/530FPB	485134	485144
	230	PM16/531FPB	485139	485149
	400	485129	485136	485146
32	110	485224	485234	485244
	230	485226	485239	485249
	400	485229	485236	485246

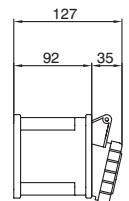
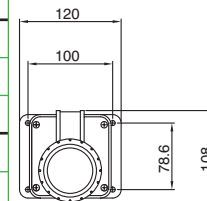


- Smooth walls undrilled
- Cable Entry possible on all 4 faces plus rear
- Generous wiring space

IP67 Watertight - Ter Series wall mounted - angled



A	V	 2P+E	 3P+E	 3P+N+E
16	110	487124	487134	487144
	230	487126	487139	487149
	400	487129	487136	487146
32	110	487224	487234	487244
	230	487226	487239	487249
	400	487229	487236	487246



- Smooth walls undrilled
- Cable Entry possible on all 4 faces plus rear
- Generous wiring space

INDUSTRIAL PLUGS & SOCKETS




PANEL APPLIANCE INLETS

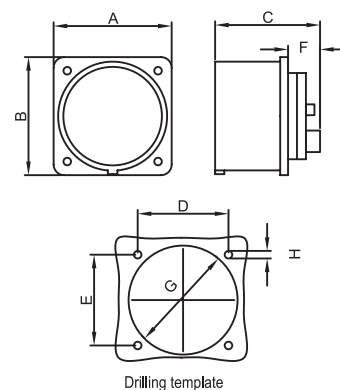
Conformity to Standards:	BS EN 60309-1	IEC 60309-1	Temperature resistance:	Operating	-25 to +50°C	
	BS EN 60309-2	IEC 60309-2		Storage	-30 to +70°C	
	BS EN 60529	IEC 60529				
Impact resistance:	>IK 06 16 & 32A - >IK 07 63 & 125A		Connecting sections of the wires	16A	min: 1	max: 2.5mm ²
Glow wire test:	850°C			32A	min: 2.5	max: 6 mm ²
				63A	min: 6	max: 16 mm ²
				125A	min: 16	max: 50 mm ²

MOULDED IEC 60309 PANEL APPLIANCE INLETS

IP44 Splashproof



A	V	 2P+E	 3P+E	 3P+N+E
16	110	PM16/790		
	230	PM16/791		
	400		PM16/795	PM16/798
32	110	PM32/790		
	230	PM32/791		
	400		PM32/795	PM32/798






(A)	Poles	V	mm.							
			A	B	C	D	E	F	G(ø)	H(ø)
16	2P+E	110	70	70	66	56	56	25	43	5.5
	2P+E	230	77	77	65	60	60	8.5	40	5.5
	3P+E	All	70	70	66	56	56	25	43	5
	3P+N+E	All	70	70	68	56	56	26	55	5
32	2P+E	All	70	70	80	56	56	30	55	5
	3P+E	All	70	70	80	56	56	30	55	5
	3P+N+E	All	70	70	80	56	56	30	55	5

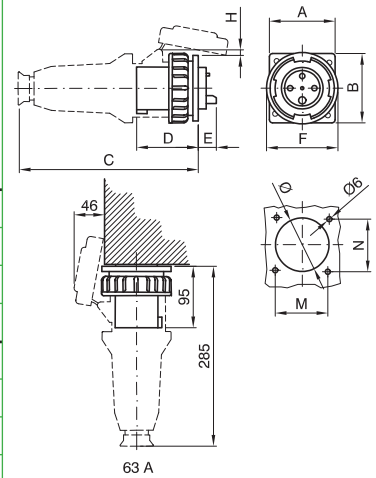
Note: IP classification of appliance inlets is tested when the connector is fully inserted.
For anti contamination caps see page 30

INDUSTRIAL PLUGS & SOCKETS

IP67 Watertight - straight






A	V			
63	110	476207	476217	476227
	230	476307	476317	476327
	400	476407	746338	756338
	500		476517	
125	110		476218	476228
	230		476318	476328
	400		749538	759538
	500		749550	

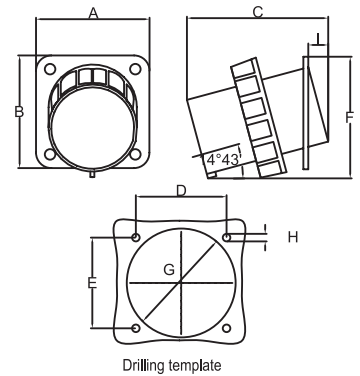


Rated current (A)	mm.								
	A	B	C	D	E	F	M	H	Ø
63	100	108	285	95	26	110	77	10	85
125	114	114	355	118	67	126	90	10	98

IP67 Watertight - angled



A	V			
63	230	PM63/751		
	400		PM63/755	PM63/758
125	230	PM125/751		
	400		PM125/755	PM125/758



Drilling template

(A)	Poles	mm.								
		A	B	C	D	E	F	G	H(e)	I
63	2P+E	100	112	135	80	88	127	80	7	8
	3P+E	100	112	135	80	88	127	80	7	8
	3P+N+E	100	112	135	80	88	127	80	7	8
125	2P+E	120	130	147	100	108	145	80	7	8
	3P+E	120	130	147	100	108	145	80	7	8
	3P+N+E	120	130	147	100	108	143	80	7	8

Note: IP classification of appliance inlets is tested when the connector is fully inserted.
For anti contamination caps see page 30

INDUSTRIAL PLUGS & SOCKETS




PANEL SOCKETS

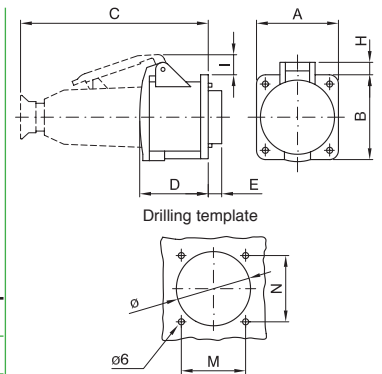
Conformity to Standards:	BS EN 60309-1	IEC 60309-1	Temperature resistance:	Operating	-25 to +50°C	
	BS EN 60309-2	IEC 60309-2		Storage	-30 to +70°C	
	BS EN 60529	IEC 60529				
Impact resistance:	>IK 06 16 & 32A - >IK 07 63 & 125A		Connecting sections of the wires	16A	min: 1.5	max: 4 mm ²
Glow wire test:	850°C			32A	min: 2.5	max: 10 mm ²
				63A	min: 6	max: 25 mm ²
				125A	min: 25	max: 70 mm ²

MOULDED IEC 60309 PANEL SOCKETS

IP44 Splashproof - straight






A	V			
		2P+E	3P+E	3P+N+E
16	110	PM16/3000FPB	441611	451611
	230	PM16/3100FPB	441622	451622
	400	431638	PM16/3500FPB	PM16/3800FPB
32	110	PM32/3000FPB	443211	453211
	230	PM32/3100FPB	443222	453222
	400	433238	PM32/3500FPB	PM32/3800FPB

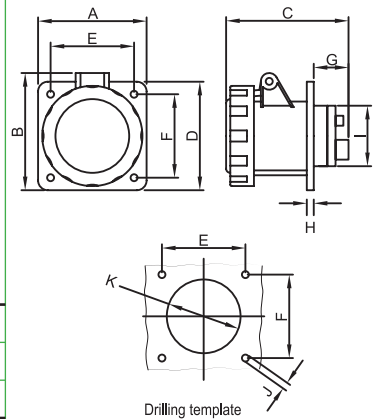


(A)	Poles	mm.									
		A	B	C	D	E	H	I	M	N	ø
16	2P+E	62	62	130	47	18	8	18	47	47	50
	3P+E	75	75	130	47	18	8	18	60	60	63
	3P+N+E	75	75	140	47	18	10	20	60	60	63
32	2P+E	75	75	170	62	18	12	20	60	60	63
	3P+E	75	75	170	62	18	12	20	60	60	63
	3P+N+E	75	75	170	62	18	15	26	60	60	63

IP67 Watertight - straight



A	V			
		2P+E	3P+E	3P+N+E
16	110	PM16/660		
	230	PM16/661		
	400		PM16/665	PM16/668
32	110	PM32/660		
	230	PM32/661		
	400		PM32/665	PM32/668






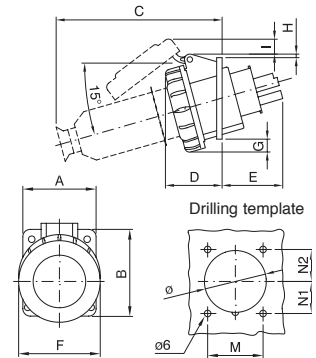
(A)	Poles	mm.										
		A	B	C	D	E	F	G	H	I	J(ø)	K
16	2P+E	78	84	74	78	60	60	14	4	43	5.5	50
	3P+E	78	88	75	78	60	60	14	4	43	5.5	50
	3P+N+E	90	98	76	90	72	72	14	6	54	5.5	60
32	2P+E	90	101	84	90	72	72	14	6	54	5.5	60
	3P+E	90	101	84	90	72	72	14	6	54	5.5	60
	3P+N+E	90	107	84	90	72	72	14	6	54	5.5	68

INDUSTRIAL PLUGS & SOCKETS

IP67 Watertight - straight






A	V			
63	110	436311	446311	456311
	230	436322	446322	456322
	400	436338	446338	456338
125	110		449311	459311
	230		449322	459322
	400		449538	459538

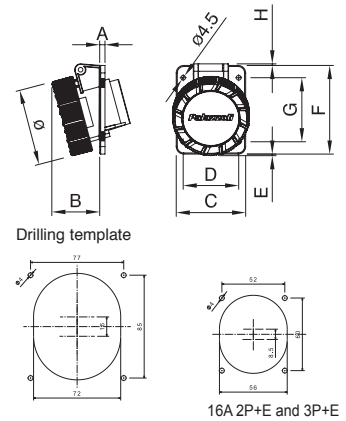


(A)	Poles	mm.												
		A	B	C	D	E	F	G	H	I	M	N1	N2	ø
63	All	100	108	226	80	80	109	10	8	23	77	46	39	86
125	3P+E	114	114	320	101	82	128	20	8	35	90	47	43	96
	3P+N+E													

IP44 Splashproof topTER - angled






A	V			
16	110	488124	488134	488144
	230	488126	488139	488149
	400	488129	488136	488146
32	110	488224	488234	488244
	230	488226	488239	488249
	400	488229	488236	488246

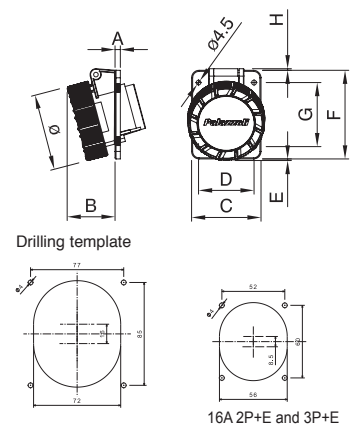


(A)	Poles	mm.						
		A	B	C	D	F	G	ø
16	2P+E	5	45	65	52	60	72	5
	3P+E	5	46	65	52	60	72	80
	3P+N+E	7	47	88	77	100	85	88
32	2P+E	7	54	88	77	100	85	93
	3P+E	7	54	88	77	100	85	93
	3P+N+E	7	55	88	77	100	85	100

IP67 Watertight topTER - angled



A	V			
16	110	489124	489134	489144
	230	489126	489139	489149
	400	489129	489136	489146
32	110	489224	489234	489244
	230	489226	489239	489249
	400	489229	489236	489246




(A)	Poles	mm.						
		A	B	C	D	F	G	ø
16	2P+E	5	45	65	52	60	72	5
	3P+E	5	46	65	52	60	72	80
	3P+N+E	7	47	88	77	100	85	88
32	2P+E	7	54	88	77	100	85	93
	3P+E	7	54	88	77	100	85	93
	3P+N+E	7	55	88	77	100	85	100

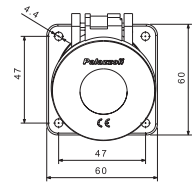
INDUSTRIAL PLUGS & SOCKETS

IP44 Splashproof fixed Compact Socket - outlets - angled

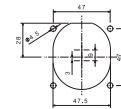


COMPACT BOARD SOCKET-OUTLETS

A	V	Flange dimensions mm.	 2P+E
16	110	60 x 60	488114
	230	60 x 60	488116






Drilling template

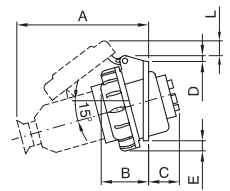


IP67 Watertight - Cee Series - angled

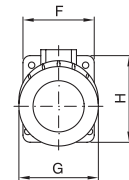


A	V	 2P+E	 3P+E	 3P+N+E
16	110	471263	471273	471223
	230	471363	471373	471333
	400	471463	471473	471483
	500	471553	471573	471563
32	110	471267	471277	471287
	230	471367	471377	471387
	400	471467	471477	471487
	500	471556	471577	471567
63	110	536311	546311	556311
	230	536322	546322	556322
	400	536338	546338	556338
	500		546350	
125	110		549311	559311
	230		549322	559322
	400		549538	559538
	500		549550	

16A 32A

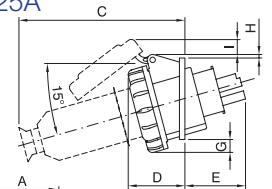


Drilling template

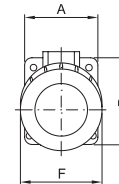


(A)	Poles	mm.												
		A	B	C	D	E	F	G	H	I	L	M	N	ø
16	2P+E	123	46	31	7	9	62	73	70	47	15	26	29	53
	3P+E	133	48	30	6	10	70	80	77	53	15	30	30	60
	3P+N+E	140	51	24	7.5	9	77	88	85	57	15	31	34	66
32	2P+E	157	56	39	3	7	85	94	97	60	20	35	37	70
	3P+E	157	56	39	3	6	85	94	97	60	20	35	37	70
	3P+N+E	158	58	38	3	7.5	90	101	105	65	20	38	42	75

63A 125A



Drilling template






(A)	Poles	mm.												
		A	B	C	D	E	F	G	H	I	M	N1	N2	ø
63	2P+E	100	108	226	80	80	109	10	8	23	77	46	39	86
	3P+E													
	3P+N+E													
125	3P+E	114	114	320	101	82	128	20	8	35	90	47	43	96
	3P+N+E													

INDUSTRIAL PLUGS & SOCKETS

ACCESSORIES FOR MOULDED IEC 60309 APPLIANCE INLETS




IP44 Splashproof anti-contamination caps



A	 2P+E	 3P+E	 3P+N+E
16	PM16/3KC	PM16/4KC	PM16/5KC
32	PM32/3KC	PM32/4KC	PM32/5KC

IP67 Watertight anti-contamination caps



A	 2P+E	 3P+E	 3P+N+E
16	PM16/3NPCFPB	476913	476923
32	476905	476905	476925
63	PM63/345NPC		
125	PM125/345NPC		

INDUSTRIAL PLUGS & SOCKETS

SPLITTERS

Conformity to Standards:	CEI EN 60309-1	IEC 60309-1	Temperature resistance:	Operating	-25 to +50°C
	CEI EN 60309-2	IEC 60309-2		Storage	-30 to +70°C
	CEI EN 60529	IEC 60529		Cable entry	T-line: glanded for side entry 1.5mm ² x 3 core cable
Impact resistance:	>IK 06		Connecting sections of the wires	T-line: max 1.5mm ²	
Glow wire test:	850°C				

SPLITTERS

IP44 Splashproof - Splitline

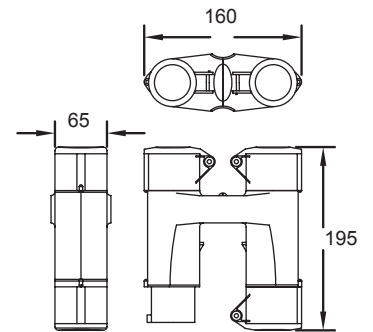
- IP44 16A 110v & 230v versions to IEC60309
- 1x power inlet feeding, 3x power outlets
- Can be cable tied to rigging & piping for rapid installation
- Lightweight & compact design
- Robust construction



A	V	
16	110	PM16/A130N
	230	PM16/A131N



2P+E



IP44 Splashproof - T-Line

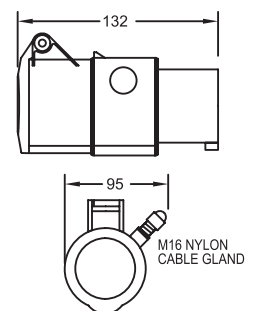
- Saves time & space
- Re-wireable in line T-Connector
- IP44 16A 110v AC & 230v AC IEC60309
- Black body moulding
- Theatre, film & studio applications
- Ideal for temporary hard wired cable connection to lighting/ heating etc
- Lightweight & compact
- Robust construction



A	V	
16	110	PM16/A110T
	230	PM16/A24T



2P+E



INDUSTRIAL PLUGS & SOCKETS

MULTIPLAY SERIES

Conformity to Standards:	CEI EN 60309-1	IEC 60309-1	Glow wire test:	850°C
	CEI EN 60309-2	IEC 60309-2	Self-extinguishing:	V2
	CEI 23-50	IEC 60884-1	Temperature resistance:	Operating -25 to +50°C Storage -30 to +70°C
Protection rating:	IP67 (multipliers) IPX0 (adaptors)			
Impact resistance:	> IK 08			




Multiplay – Multipliers & Adaptors

The new Multiplay series was designed & built to power mobile & portable appliances fitted with industrial plugs & multiply power distribution for all temporary uses. The main advantages consist in the single- block unit which prevents corrosive atmospheres from penetrating inside the shell.

MULTIPLIERS & ADAPTORS




IP67 Watertight - 2 Gang



A	V	 2P+E	 3P+E	 3P+N+E
16	230	752126		
	400		752136	752146

IP67 Watertight - 3 Gang



A	V	 2P+E	 3P+E	 3P+N+E
16	230	753126		
	400		753136	753146
32	400		753236	

IP44 Splashproof Plug adaptors - 1/2 Socket-Outlets for domestic use



A	V	 2P+E	 3P+E	 3P+N+E
16	230	740001		

IP44 Splashproof Plug adaptors - 1 Standard British Socket-Outlet



A	V	 2P+E	 3P+E	 3P+N+E
13	230	740003		

INDUSTRIAL PLUGS & SOCKETS

LOW VOLTAGE

Conformity to Standards:	CEI EN 60309-1	IEC 60309-1	Cable entry	16A	2P+E	min: 8	max: 13	mm
	CEI EN 60309-2	IEC 60309-2		32A	3P+E	min: 8.5	max: 14	mm
	CEI EN 60529	IEC 60529			3P+N+E	min: 10	max: 15.5	mm
Impact resistance:	>IK 08							
Glow wire test:	850°C insert							
Self extinguishing:	V2							
Temperature resistance:	Operating	-25 to +50°C	Connecting sections of the wires	16A		min: 1	max: 2.5	mm ²
	Storage	-30 to +70°C		32A		min: 2.5	max: 6	mm ²

Low voltage plugs & sockets

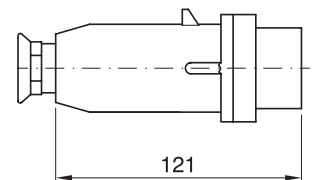
- This range of products are designed for use on systems with operating voltages less than 50V & suitable for either AC or DC supplies (by product selection).
- Plugs & connectors are available in either 2 or 3 pole versions.
- Products in this range can be distinguished by either a violet or white colour coding, signifying either 20-25V or 40-50V respectively.
- Incorrect mating of plugs & connectors within this range is prevented by two square mechanical keyways.
- A major keyway is located at 6H, & is consistent throughout the product range. An additional minor keyway is located at varying clock positions in relation to the major keyway.

LOW VOLTAGE PLUGS

IP44 Splashproof - Cee Series glanded



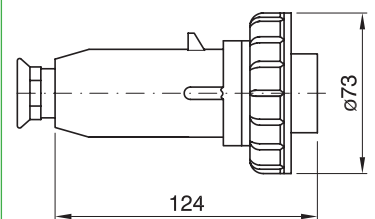
A	V	2 POLE	3 POLE
16	20-25	PM16/900FPB	PM16/903FPB
	40-50	477102	PM16/904FPB
	42Vdc	477602	PM16/905
32	20-25	477005	477065
	40-50	477105	477115
	42Vdc	477605	PM32/905



IP67 Watertight - Cee Series glanded



A	V	2 POLE	3 POLE
16	20-25	PM16/940FPB	PM16/943FPB
	40-50	477103	477113
	42Vdc	477603	
32	20-25	477006	477066
	40-50	477106	477116
	42Vdc	477606	



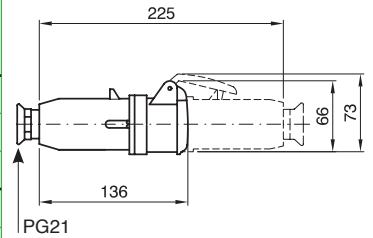
INDUSTRIAL PLUGS & SOCKETS

LOW VOLTAGE CONNECTORS AND SURFACE SOCKETS

IP44 Splashproof - Cee Series - glanded



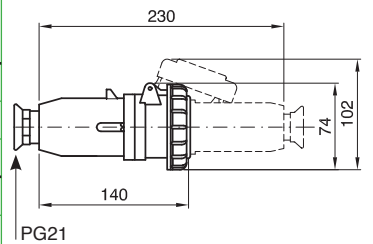
A	V	2 POLE	3 POLE
16	20-25	473002	473062
	40-50	473102	473112
	42Vdc	473602	PM16/915
32	20-25	473005	473065
	40-50	473105	473115
	42Vdc	473605	PM32/915



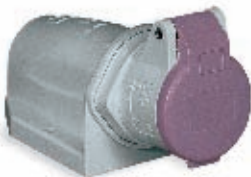
IP67 Watertight - Cee Series - glanded



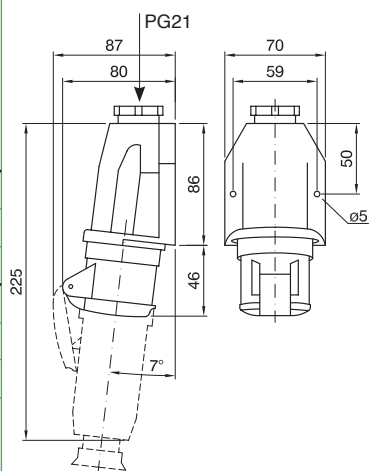
A	V	2 POLE	3 POLE
16	20-25	473003	473063
	40-50	473103	473113
	42Vdc	473603	
32	20-25	473006	473066
	40-50	473106	473116
	42Vdc	473606	



IP44 Splashproof - Cee Series - angled



A	V	2 POLE	3 POLE
16	20-25	PM16/930FPB	PM16/933FPB
	40-50	471102	471112
	42Vdc	471602	PM16/935
32	20-25	471005	471015
	40-50	471105	471115
	42Vdc	471605	PM32/935



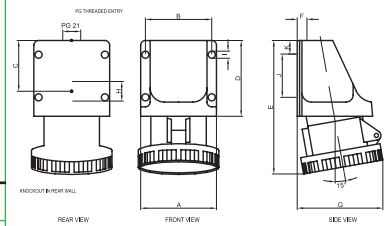
INDUSTRIAL PLUGS & SOCKETS

LOW VOLTAGE SURFACE SOCKETS AND PANEL SOCKETS

IP67 Watertight - angled



A	V	2 POLE	3 POLE
16	20-25	PM16/960	PM16/963
	42Vdc	PM16/962	PM16/964
32	20-25	PM32/960	PM32/963
	42Vdc	PM32/962	PM32/964

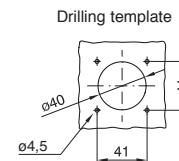
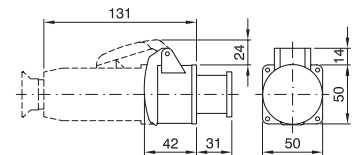


(A)	Poles	mm.										
		A	B	C	D	E	F	G	H	I	J	K
16	2P+E	70	59	32	82	118	20	82	23(ø)	5.3(ø)	33	13
	3P+E	70	59	32	82	118	20	82	23(ø)	5.3(ø)	33	13
32	2P+E	70	59	32	82	118	20	82	23(ø)	5.3(ø)	33	13
	3P+E	70	59	32	82	118	20	82	23(ø)	5.3(ø)	33	13

IP44 Splashproof Panel Socket - Cee Series - straight



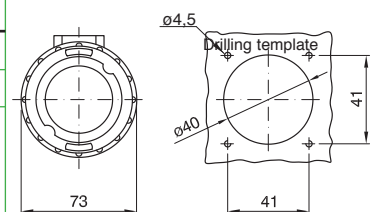
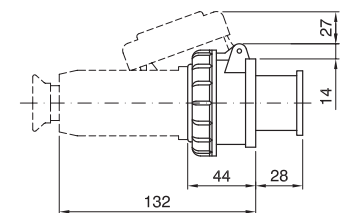
A	V	2 POLE	3 POLE
16	20-25	PM16/920FPB	PM16/923FPB
	40-50	471132	471142
	42Vdc	471632	
32	20-25	471035	471045
	40-50	471135	471145
	42Vdc	471635	



IP67 Watertight - Panel Socket - Cee Series - straight



A	V	2 POLE	3 POLE
16	20-25	471003	471063
	40-50	471103	471113
32	20-25	471007	471067
	40-50	471107	471117



INDUSTRIAL PLUGS & SOCKETS

7 - PIN

Conformity to Standards:	BSEN 60309-1	IEC 60309-1	Cable entry	16A	2P+E	min: 8	max: 13 mm
	BSEN 60529	IEC 60529			3P+E	min: 8.5	max: 14 mm
Impact resistance:	>IK 06				3P+N+E	min: 10	max: 15.5mm
Glow wire test:	850°C			32A	2P+E	min: 11.5	max: 17.5mm
Temperature resistance:	Operating	-25 to +50°C			3P+E	min: 12.5	max: 19.5mm
	Storage	-30 to +70°C			3P+N+E	min: 14	max: 21.5mm
			Connecting sections of the wires	16A		min: 1	max: 2.5mm ²
					32A		min: 2.5

7 Pin plugs & sockets (6P+E)

- These products are available in either 230V or 400VAC operating voltage configurations.
- The 6 pins are all equally rated to carry the maximum design currents of either 16 or 32A ratings, & are generally suited to motor applications.

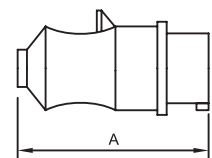
7 - PIN PLUGS

IP44 Splashproof - plug



A	V	
16	230	PM16/71240
	400	PM16/71415
32	230	PM32/71240
	400	PM32/71415

Grommet entry



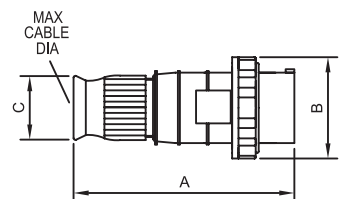
Rated current (A)	A (mm)
16	135
32	169

IP67 Watertight - plug



A	V	
16	400	PM16/81415
32	400	PM32/81415

Screwed radial cord grip



Rated current (A)	A (mm)	B (mm)	C (mm)
16	152	86(ø)	21(ø)
32	181	101(ø)	27(ø)

INDUSTRIAL PLUGS & SOCKETS

7 - PIN CONNECTORS AND SURFACE SOCKETS

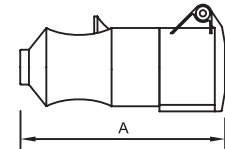
IP44 Splashproof - connector



A	V	
16	230	PM16/72240
	400	PM16/72415
32	230	PM32/72240
	400	PM32/72415



6P+E



Rated current (A)	A (mm)
16	145
32	226

Grommet entry

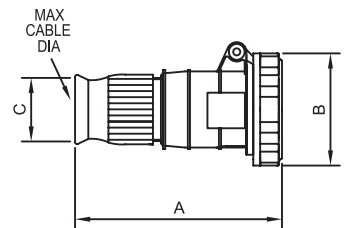
IP67 Watertight - connector



A	V	
16	400	PM16/82415
32	400	PM32/82415



6P+E



Rated current (A)	A (mm)	B (mm)	C (mm)
16	168	86.5(ø)	21(ø)
32	200	101.5(ø)	27(ø)

Screwed radial cord grip

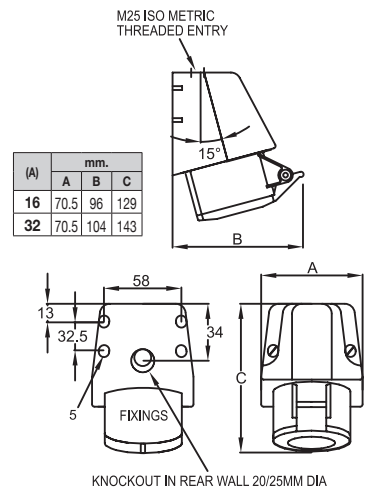
IP44 Splashproof socket surface mounted - angled



A	V	
16	230	PM16/75240
	400	PM16/75415
32	230	PM32/75240
	400	PM32/75415



6P+E




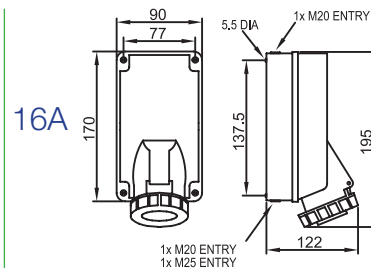
INDUSTRIAL PLUGS & SOCKETS

7 - PIN SURFACE SOCKETS AND PANEL SOCKETS

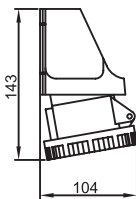
IP67 Watertight socket surface mounted - angled



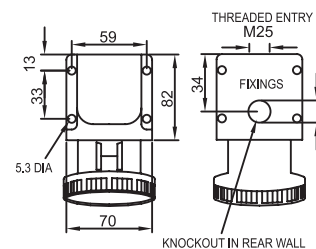
A	V	
		 6P+E
16	400	PM16/85415
32	400	PM32/85415



16A




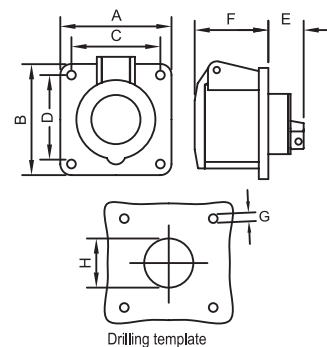
32A



IP44 Splashproof socket panel mounted - straight




A	V	
		 6P+E
16	400	PM16/77415
32	400	PM32/77415

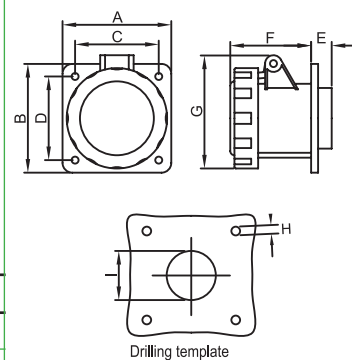


(A)	mm.							
	A	B	C	D	E	F	G	H
16	70	70	56	56	28	45	5.5	56
32	75	75	60	60	19	62	5.5	56

IP67 Watertight surface panel mounted - straight



A	V	
		 6P+E
16	400	PM16/87415
32	400	PM32/87415



(A)	mm.								
	A	B	C	D	E	F	G	H	I
16	75	75	60	60	35.5	57	93	5.5(o)	55(o)
32	75	75	60	60	50	65	106	5.5(o)	60(o)

INDUSTRIAL PLUGS & SOCKETS

HIGH FREQUENCY

Conformity to Standards:	CEI EN 60309-1	IEC 60309-1	Cable entry	16A	2P+E	min: 8	max: 13	mm
	CEI EN 60309-2	IEC 60309-2		32A	3P+E	min: 8.5	max: 14	mm
	CEI EN 60529	IEC 60529			3P+N+E	min: 10	max: 15.5	mm
Impact resistance:	>IK 06							
Glow wire test:	850°C							
Temperature resistance:	Operating	-25 to +50°C						
	Storage	-30 to +70°C						
Connecting sections of the wires				16A		min: 1	max: 2.5	mm ²
				32A		min: 2.5	max: 6	mm ²




Multimax high frequency

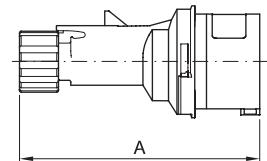
- A plug & socket range available for IP44 installations.
- Suited to applications where the supply frequency is notably higher than normal mains systems, & between the ranges of 100 to 500Hz.
- Available in both 16 & 32A ratings for systems with operating voltages >50VAC.
- Plugs & trailing lead connectors in this range feature the same significant design characteristics as those in the Multimax product range.
- Products are colour coded green.

HIGH FREQUENCY PLUGS AND CONNECTORS

IP44 Splashproof plugs - Multimax






A	V	Hz	 2P+E	 3P+E	 4P+E
16	>50	100-300	700120	PM16/941FPB	700140
		300-500	700122	700132	700142
32	>50	100-300	700220	700230	700240
		300-500	700222	700232	700242

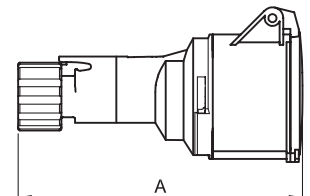


Rated current (A)	Poles	A (mm)
16	2P+E	127
	3P+E	134
	4P+E	142
32	2P+E	154
	3P+E	154
	4P+E	173

IP44 Splashproof connector - Multimax



A	V	Hz	 2P+E	 3P+E	 4P+E
16	>50	100-300	720120	720130	720140
		300-500	720122	720132	720142
32	>50	100-300	720220	720230	720240
		300-500	720222	720232	720242





Rated current (A)	Poles	A (mm)
16	2P+E	134
	3P+E	143
	4P+E	151
32	2P+E	163
	3P+E	163
	4P+E	182

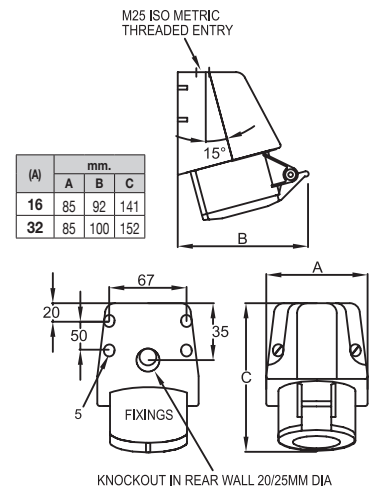
INDUSTRIAL PLUGS & SOCKETS

HIGH FREQUENCY SURFACE AND PANEL SOCKETS

IP44 Splashproof surface socket - angled





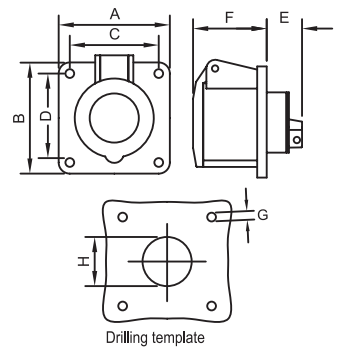
A	V	 3P+E 100-300 Hz 10h Earth	 3P+E 300-500 Hz 2h Earth
16	>50	PM16/961	PM16/965
32	>50	PM32/961	PM32/965



IP44 Splashproof panel socket - straight



A	V	 3P+E 100-300 Hz 10h Earth	 3P+E 300-500 Hz 2h Earth
16	>50	PM16/971	PM16/975
32	>50	PM32/971	PM32/975



(A)	mm.							
	A	B	C	D	E	F	G	H
16	70	70	56	56	28	45	5.5	56
32	75	75	60	60	19	62	5.5	56

INDUSTRIAL PLUGS & SOCKETS

METAL 60309

Conformity to Standards:	BS EN 60309-1	IEC 60309-1	Cable entry	16A	2P+E	min: 8	max: 13 mm
	BS EN 60309-2	IEC 60309-2			3P+E	min: 8.5	max: 14 mm
	BS EN 60529	IEC 60529			3P+N+E	min: 10	max: 15.5mm
Impact resistance:	>IK 06 (TOUGH ZINC DIE-CAST BODY)			32A	2P+E	min: 11.5	max: 17.5mm
Glow wire test:	850°C insert				3P+E	min: 12.5	max: 19.5mm
Temperature resistance:	Operating	-25 to +50°C			3P+N+E	min: 14	max: 21.5mm
	Storage	-30 to +70°C					
Connecting sections of the wires	16A	Plug	min: 1	max: 2.5mm ²			
	32A	Plug	min: 2.5	max: 6 mm ²			
	16A	Socket	min: 1.5	max: 4 mm ²			
	32A	Socket	min: 2.5	max: 10 mm ²			




Metal 60309 plugs & sockets

- An extremely mechanically robust plug & socket range suited for arduous conditions

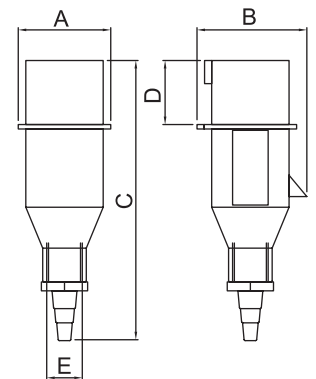
METAL PLUGS AND SOCKETS

IP44 Splashproof - plug



A	V			
		2P+E	3P+E	3P+N+E
16	110	PD16/100		
	230	PD16/101		
	400		PD16/105	PD16/108
32	110	PD32/100		
	230	PD32/101		
	400		PD32/105	PD32/108

These products are manufactured to order only & may be subject to a minimum order quantity.






FEMALE THREADED ENTRY
NOTE: MAX CABLE TERMINATION 2.5mm²sq FOR 16A / 6mm²sq FOR 32A

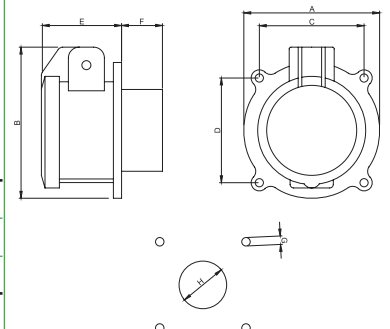
(A)	Poles	mm.				
		A	B	C	D	E
16	2P+E	52	60	157	37	M20
	3P+E	58	57	158	37	M20
	3P+N+E	65	77	164	37	M32
32	2P+E	66	79	175	46	M32
	3P+E	66	79	175	46	M32
	3P+N+E	71	87	175	46	M32

IP44 Splashproof - surface socket - straight



A	V			
		2P+E	3P+E	3P+N+E
16	110	PD16/120		
	230	PD16/121		
	400		PD16/125	PD16/128
32	110	PD32/120		
	230	PD32/121		
	400		PD32/125	PD32/128

These products are manufactured to order only & may be subject to a minimum order quantity.



(A)	Poles	mm.							
		A	B	C	D	E	F	G	H
16	2P+E	83	86	64	64	74	30	5.5	68
	3P+E	83	86	64	64	74	30	5.5	68
	3P+N+E	83	86	64	64	74	30	5.5	68
32	2P+E	97	98	68	89	30	46	5.5	74
	3P+E	97	98	68	89	30	46	5.5	74
	3P+N+E	97	98	68	89	30	46	5.5	74

INDUSTRIAL PLUGS & SOCKETS

HIGH CURRENT

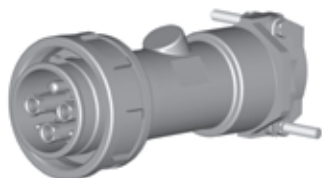
Conformity to Standards:	CEI EN 60309-1 (Where applicable)	Temperature resistance:	Operating	-25 to +50°C
	N.F.C. 63300		Storage	-30 to +70°C
	CEI EN 60529		IEC 60529	
Impact resistance:	>IK 07 (Die-cast bodies)	Cable entry	See individual product chart	
Glow wire test:	850°C insert	Connecting sections of the wires	See individual product chart	

High current

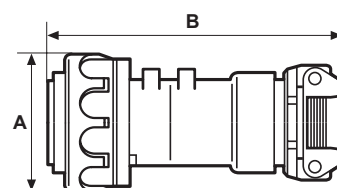
- Extremely heavy duty die cast metal plugs & connectors with screw ring coupling
- Particularly suited to areas such as shipyards, mines, railways, with applications including high powered cranes & tunnelling machinery
- Designed for use at operating voltages up to 3.3kV, & current ratings up to 800A available
- Female socket contacts are finger proof to IP2X
- Cable termination is made directly to the contact terminals by crimping process. Contacts are manufactured in two halves to allow ease of crimping & cable installation
- Products are offered with optional sizes of crimp terminations allowing the user to match to the installation conductor size
- Spare/replacement crimp terminations are available on request
- Products are equipped with 2 late make, early break pilot contacts rated at 10A, which can be utilised for electrical interlocking circuits
- Appliance inlets can be provided with an anti-contamination cap as an optional extra

HIGH CURRENT PLUGS AND CONNECTORS

IP66 Watertight - plug

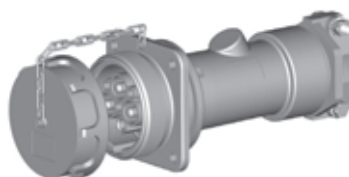


A	MAX. CABLE SIZE mm.			3P+E	4P+E
	MAIN CONTACTS	PILOT CONTACTS	CABLE O.D.		
200	35	6	32-42		PD330/345N
	50	6	32-42		PD330/157N
	70	6	43-54		PD331/328N
250	50	10	32-42	PD330/343N	
	70	10	43-54	PD330/155N	
320	95	6	52-62		PD330/355N
	120	6	52-62		PD330/159N
	150	6	52-62		PD331/270N
400	95	10	45-55	PD330/351N	
	120	10	52-62	PD330/353N	
	150	10	52-62	PD331/269N	

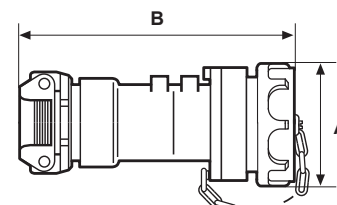


(A)	mm.	
	A	B
200-250	130	282
320-400	155	395

IP66 Watertight - cable connector



A	MAX. CABLE SIZE mm.			3P+E	4P+E
	MAIN CONTACTS	PILOT CONTACTS	CABLE O.D.		
200	35	6	32-42		PD330/416N
	50	6	32-42		PD330/224N
	70	6	43-54		PD331/330N
250	50	10	32-42	PD330/408N	
	70	10	43-54	PD330/410N	
320	95	6	52-62		PD330/438N
	120	6	52-62		PD330/440N
	150	6	52-62		PD331/276N
400	95	10	45-55	PD330/430N	
	120	10	52-62	PD330/432N	
	150	10	52-62	PD331/275N	





(A)	mm.	
	A	B
200-250	132	305
320-400	155	412

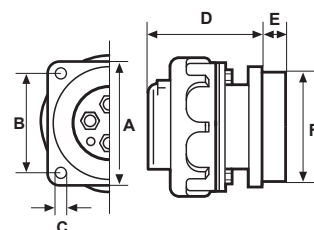
INDUSTRIAL PLUGS & SOCKETS

HIGH CURRENT APPLIANCE INLETS AND SOCKETS

IP66 Watertight - appliance inlet panel mounted - straight





A	MAX. CABLE SIZE mm.		 3P+E	 4P+E
	MAIN CONTACTS	PILOT CONTACTS		
200	35	6		PD330/417N
	50	6		PD330/223N
	70	6		PD331/331N
250	50	10	PD330/409N	
	70	10	PD330/411N	
320	95	6		PD330/439N
	120	6		PD330/441N
	150	6		PD331/279N
400	95	10	PD330/431N	
	120	10	PD330/433N	
	150	10	PD331/278N	

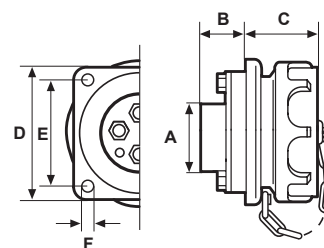


(A)	mm.					
	A	B	C	D	E	F
200-250	116	92	11	107	20	106
320-400	158	120	13	120	20	134

IP66 Watertight - semi recessed socket



A	MAX. CABLE SIZE mm.		 3P+E	 4P+E
	MAIN CONTACTS	PILOT CONTACTS		
200	35	6		PD330/346N
	50	6		PD330/158N
	70	6		PD331/326N
250	50	10	PD330/344N	
	70	10	PD330/156N	
320	95	6		PD330/356N
	120	6		PD330/160N
	150	6		PD331/264N
400	95	10	PD330/352N	
	120	10	PD330/354N	
	150	10	PD331/263N	



(A)	mm.					
	A	B	C	D	E	F
200-250	106	55	75	116	92	11
320-400	136	60	85	158	120	13



Dealer's stamp



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