

EX PLUGS & SOCKETS (NON-ARMoured CABLE)

Zones 1, 2, 21, 22

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ATEX PLUGS & SOCKETS

ZONES 1, 2 (gas) & 21, 22 (dust)



EU-Type Examination Certificate

Range of certified plugs and sockets for hazardous areas facilitate the compliance of:

- electrical machinery to the Machinery European Directive regarding isolation device and to EN 60204-1 standard: Safety of machinery electrical equipment of machines,
- electrical installation to French decree of 30 aout 2010 and 22 septembre 2010 relating to health and safety at work when using electrical installations,
- electrical installation to national regulation relating to the improvement of the safety and health of workers at work in Italy, Spain, Belgium,
- electrical installation to the installation standards: IEC/ EN 60079-14, IEC/HD 60364 (international), NF C 15-100 (France) and CSA Z462 (Canada).

These plugs and sockets comply with:

- ATEX European Directive (affixing "Ex" symbol and CE marking),
- RoHS Directive (affixing CE marking),
- REACH European Regulation,
- IEC/ EN 60079-0, IEC/ EN 60079-1, IEC/ EN 60079-7, IEC/ EN 60079-31, IEC/ EN 60309-1 and IEC/ EN 60309-4 standards.
- Bureau Veritas Marine specifications.



ITEM REFERENCES

Rated current:	Coding Voltage/ Frequency [0]:	Poles:	Cable entries [1]:	Wall mounting socket:	Plugs:	Socket -outlet:	Utilization categories:	Permissible cable cross-sections:	Recommended cable type [2]:
20A	20/24V AC	2P	M20 (10-14mm)	6Z0101	6Z0201	6Z0301	AC-22 AC-23	1-4 mm ² flexible 1,5-6 mm ² rigid	H07RN-F 2x2,5mm ² [3]
20A	220/250V AC	1P+N+T	M20 (10-14mm)	6Z0102	6Z0202	6Z0302	AC-22 AC-23	1-4 mm ² flexible 1,5-6 mm ² rigid	H07RN-F 3G2,5mm ² [3][5]
20A	220/250V AC	1P+N+T	M25 (12-18mm)	6Z0102B	6Z0202B	6Z0302B	AC-22 AC-23	1-4 mm ² flexible 1,5-6 mm ² rigid	H07RN-F 3G4mm ² [3]
20A	380/440V AC	3P+T	M25 (12-18mm)	6Z0103	6Z0203	6Z0303	AC-22 AC-23	1-4 mm ² flexible 1,5-6 mm ² rigid	H07RN-F 4G4mm ² [3]
20A	380/440V AC	3P+T+N	M32 (16-25mm)	6Z0104	6Z0204	6Z0304	AC-22 AC-23	1-4 mm ² flexible 1,5-6 mm ² rigid	H07RN-F 5G4mm ² [3][4]
32A	220/250V AC	1P+N+T	M25 (12-18mm)	6Z0105	6Z0205	6Z0305	AC-22	2,5-10 mm ² flexible 2,5-16 mm ² rigid	H07RN-F 3G6mm ² [3][4]
32A	380/440V AC	3P+T	M32 (16-25mm)	6Z0106	6Z0206	6Z0306	AC-22	2,5-10 mm ² flexible 2,5-16 mm ² rigid	H07RN-F 4G6mm ² [3]
32A	380/440V AC	3P+T+N	M32 (16-25mm)	6Z0107	6Z0207	6Z0307	AC-22	2,5-10 mm ² flexible 2,5-16 mm ² rigid	H07RN-F 5G6mm ² [3]
63A	380/440V AC	3P+T	M40 (22-32mm)	6Z0108	6Z0208	6Z0308	AC-22	6-16 mm ² flexible 6-25 mm ² rigid	H07RN-F 4G16mm ² [3]
63A	380/440V AC	3P+T+N	M40 (22-32mm)	6Z0109	6Z0209	6Z0309	AC-22	6-16 mm ² flexible 6-25 mm ² rigid	H07RN-F 5G16mm ² [3]
63A	480/500V AC	3P+T	M40 (22-32mm)	6Z0110	6Z0210	6Z0310	AC-22	6-16 mm ² flexible 6-25 mm ² rigid	H07RN-F 4G16mm ² [3]
63A	480/500V AC	3P+T+N	M40 (22-32mm)	6Z0111	6Z0211	6Z0311	AC-22	6-16 mm ² flexible 6-25 mm ² rigid	H07RN-F 5G16mm ² [3]

[0] Other voltage/frequency encodings are available on request.

[1] Polyamide cable gland suitable for non-armoured cable.

[2] The cable selection is a proposal that must be reviewed in each particular case. It is made considering an ambient temperature of 30°C with a conductor operating temperature of 60°C, for cables that are exposed to the elements or supported on a surface. If the cable is to be wound on a drum or covered, the proposed cable types are not valid.

[3] It is essential to check that the outer diameter of the selected cable matches the tightening ranges of the cable glands, without forgetting the load capacity of the cables.

[4] Cable at the tightening limit of the cable gland. It is advisable to expressly check the cable to verify that it is within the tightening margins. The cable gland can be changed prior to manufacture.

[5] For safety tolerances, it is preferable to use a larger cable section, such as 3G4mm², and switch to the 6Z0102B, 6Z0202B and 6Z0302B socket and plug references.

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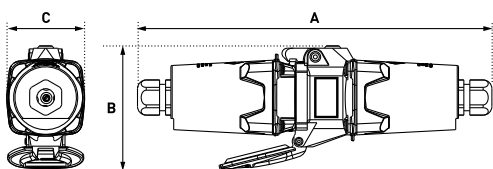
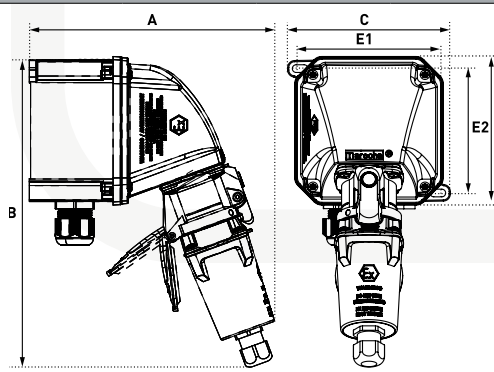
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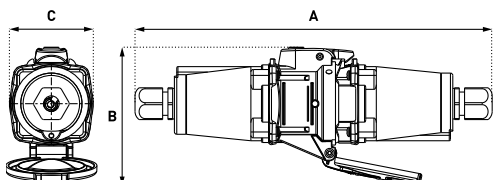
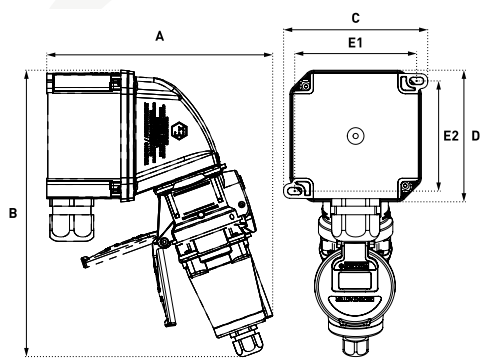
TECHNICAL SPECIFICATIONS

	20A	32A	63A
Marking:	II 2G Ex db eb IIC T* Gb II 2D Ex tb IIIC T* Db * $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ T5 T90°C $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ T6 T70°C	II 2G Ex db eb IIC T* Gb II 2D Ex tb IIIC T* Db * $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ T5 T77°C $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ T6 T57°C	II 2G Ex db eb IIC T* Gb II 2D Ex tb IIIC T* Db * $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ T4 T107°C $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ T5 T87°C
Certificate:	EU-Type Examination Certificate		
Housing:	Glass Reinforced Polyester (GRP)		
Ingress protection:	IP66/67		
Shock resistance:	IK09		

DIMENSIONS 20A

Coupler			Plug on wall mounted socket-outlet					
								
A	B	C	A	B	C	D	E1	E2
266 mm	89 mm	58 mm	208 mm	264 mm	138 mm	126 mm	117 mm	105,5

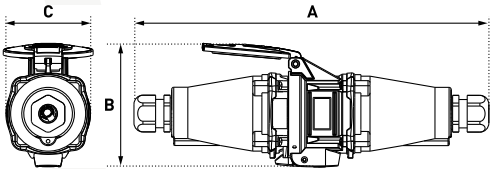
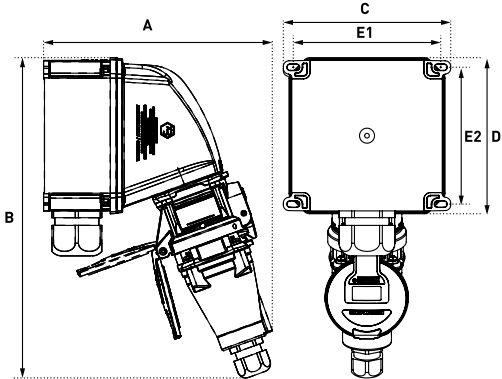
DIMENSIONS 32A

Coupler			Plug on wall mounted socket-outlet					
								
A	B	C	A	B	C	D	E1	E2
304 mm	71 mm	118 mm	208 mm	264 mm	138 mm	126 mm	117 mm	105,5

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DIMENSIONS 63A								
Coupler			Plug on wall mounted socket-outlet					
								
A	B	C	A	B	C	D	E1	E2
350 mm	84 mm	122 mm	244 mm	341 mm	175 mm	166 mm	157 mm	145,5